

In Vitro Anti-Influenza Virus Activity of Non-Polar *Primula veris* subsp. *veris* Extract

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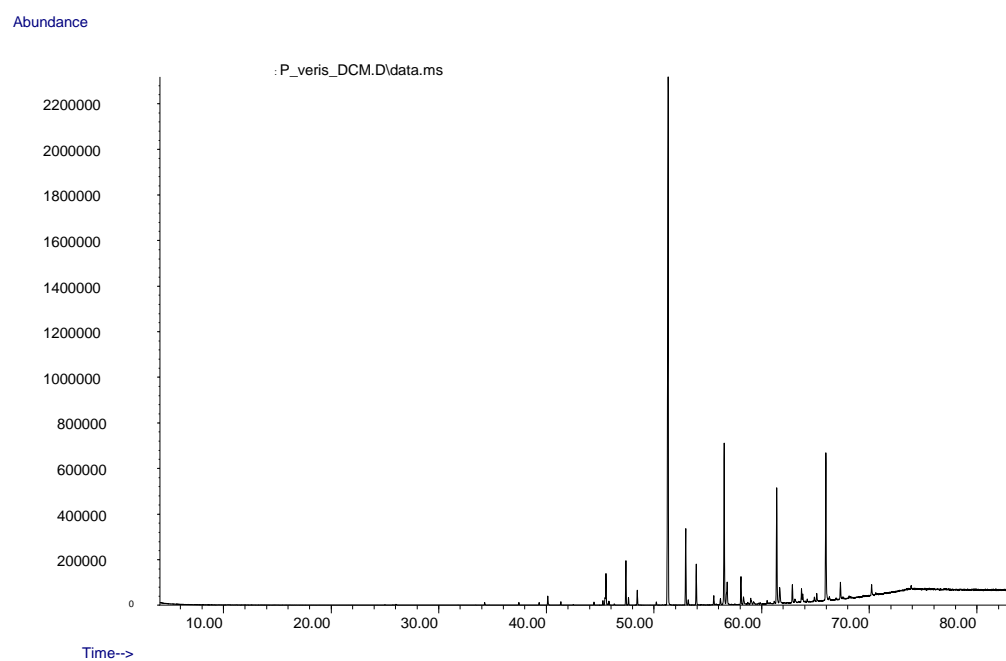


Fig. S1. GC-MS analysis of non-polar extract of *P. veris* subsp. *veris*

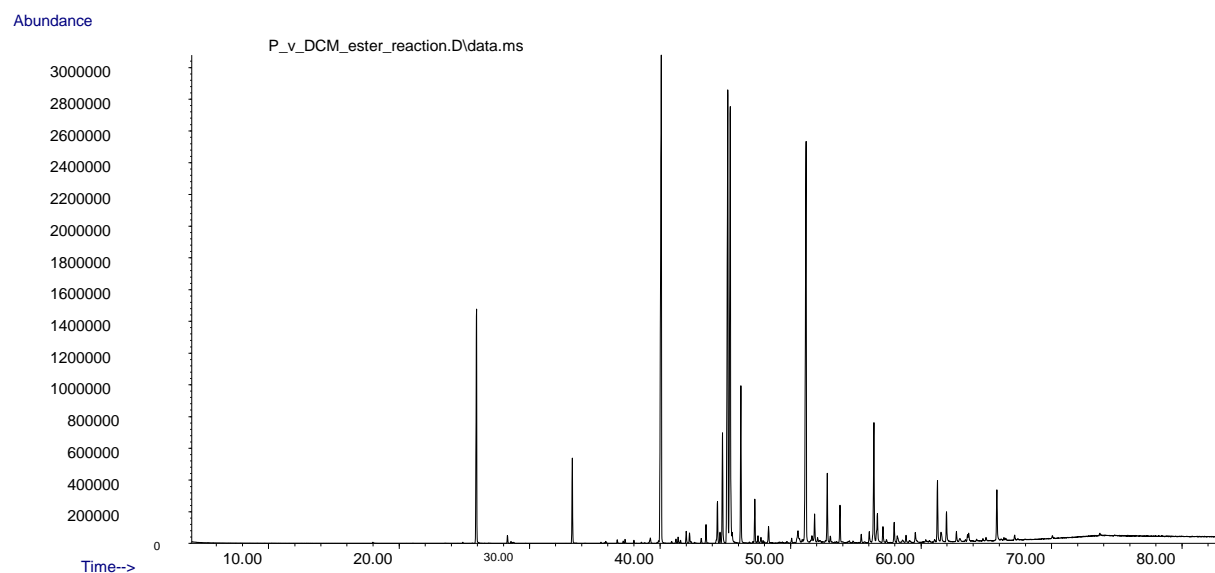


Fig. S2: GC-MS analysis of esterified non polar extract of *P. veris* subsp. *veris*

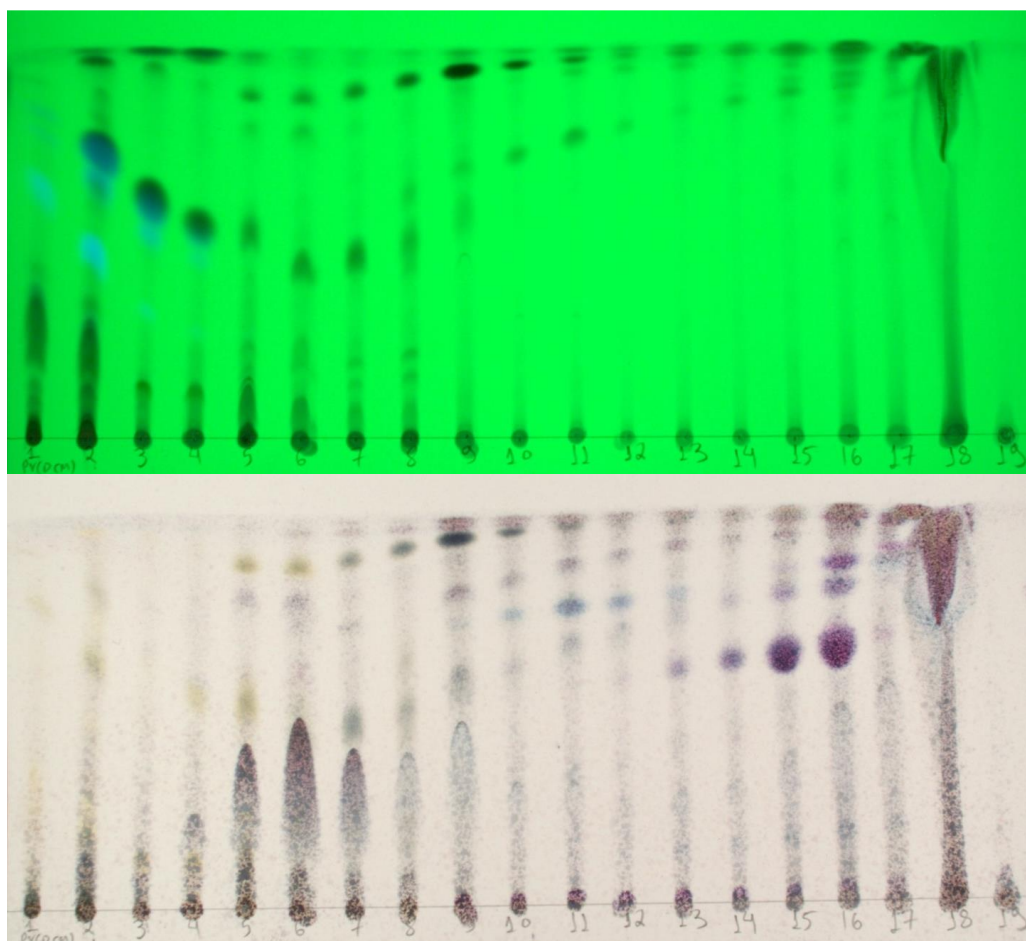


Fig. S3: TLC chromatograms of combined CPC fractions at 254nm (upper) and Vis (lower)

Table S1: The main fatty compounds of non-polar extract of *P. veris* subsp. *veris* identified by GC-MS analysis

No	Rt	%of total	Name
1	40.14	0.55	Methyl hexadecanoate
1	45.53	2.03	Heneicosane
2	47.38	2.75	Nonadecane
3	48.44	0.89	Docosane
4	51.31	41.67	Tricosane
5	52.94	4.85	Tetracosane
6	53.92	2.52	Eicosane
7	56.51	11.22	Pentacosane
8	56.79	2.23	2-nonadecanol
9	58.07	1.71	Hexacosane
10	61.39	8.12	Octadecane
11	61.67	1.61	2-Pentacosanone
12	65.69	10.98	Pentacosane

Table S2: The main fatty compounds of esterified non-polar extract of *P. veris* subsp. *veris* identified by GC-MS analysis

No	Rt	% of total	Name
1	25.93	6.16	Methyl dodecanoate
2	33.27	2.09	Methyl tetradecanoate
3	40.09	17.07	Methyl hexadecanoate
4	44.78	2.87	(6Z,9Z,12Z,15Z)-Methyl octadeca-6,9,12,15-tetraenoate
5	45.19	15.23	Methyl linoleate
6	45.37	15.04	9,12,15-Octadecatrienoic acid, methyl ester
7	46.19	4.02	Methyl octadecanoate
8	47.26	1.05	Docosane
9	51.18	14.23	Tricosane
10	52.81	1.79	Heneicosane
	53.79	0.98	Tetracosane
11	56.38	3.62	Pentacosane
12	56.65	1.21	Tetratriacontyl trifluoroacetate
13	57.08	0.49	Docosanoic acid, methyl ester

14	61.25	1.76	Octacosane
15	61.95	0.85	Tetracosanoic acid, methyl ester
16	65.81	1.57	Nonadecane

Table S3. Secondary metabolites identified in non-polar extract of *P. veris* subsp. *veris* by HPLC-HRMS analysis

N°	Rt (min)	Compound		m/z	Suggested EC	RDB eq.	Delta (ppm)
TERPENES							
1	6.23	Loliolide	[M+H] ⁺	197.1168	C ₁₁ H ₁₇ O ₃	3.5	1.93
2	6.24	Actinodiolide	[M+H] ⁺	179.1067	C ₁₁ H ₁₅ O ₂	4.5	0.36
3	9.15	Dihydroactinodiolide	[M+H] ⁺	181.1222	C ₁₁ H ₁₇ O ₂	3.5	-0.31
4	12.59	14,26-epoxyserratane-3,21-dione	[M+H] ⁺	455.3424	C ₃₀ H ₄₆ O ₃	7.5	1.05
5	17.84	Stigmasterol	[M+H] ⁺	413.3779	C ₂₉ H ₄₉ O	5.5	0.41
FLAVONE DERIVATIVES							
6	8.00	Tetramethoxy-hydroxy-flavone (I)	[M+H] ⁺	359.1126	C ₁₉ H ₁₉ O ₇	10.5	0.14
7		Pentamethoxy-hydroxy-flavone (I)	[M+H] ⁺	389.1231	C ₂₀ H ₂₁ O ₈	10.5	0.12
8	8.12	Trimethoxy-hydroxy-flavone	[M+H] ⁺	329.1020	C ₁₈ H ₁₇ O ₆	10.5	0.17
9		Tetramethoxy-hydroxy-flavone (II)	[M+H] ⁺	359.1126	C ₁₉ H ₁₉ O ₇	10.5	0.14
10		Pentamethoxy-hydroxy-flavone (II)	[M+H] ⁺	389.1231	C ₂₀ H ₂₁ O ₈	10.5	0.12
11	8.43	Hydroxy-flavone	[M+H] ⁺	239.0702	C ₁₅ H ₁₁ O ₃	10.5	-0.38
12		Methoxy-hydroxy-flavone	[M+H] ⁺	269.0809	C ₁₆ H ₁₃ O ₄	10.5	0.35
13		Dimethoxy-hydroxy-flavone (I)	[M+H] ⁺	299.0915	C ₁₇ H ₁₅ O ₅	10.5	0.2
14	8.63	Dimethoxy-hydroxy-flavone (I)	[M+H] ⁺	299.0915	C ₁₇ H ₁₅ O ₅	10.5	0.2
15	9.08	Trimethoxy-dihydroxy-flavone	[M+H] ⁺	345.0972	C ₁₇ H ₁₅ O ₅	10.5	0.84
16		Dimethoxy-dihydroxy-flavone	[M+H] ⁺	315.0865	C ₁₇ H ₁₅ O ₆	10.5	0.46
17		Pentamethoxy-flavone (I)	[M+H] ⁺	373.1284	C ₂₀ H ₂₁ O ₇	10.5	0.56
19		Pentamethoxy-dihydroxy-flavone	[M+H] ⁺	405.1183	C ₂₀ H ₂₁ O ₉	10.5	0.62

20		Hexamethoxy-dihydroxy-flavone (I)	[M+H] ⁺	435.1287	C ₂₁ H ₂₃ O ₁₀	10.5	0.20
21	9.24	Pentamethoxy-flavone (II)	[M+H] ⁺	373.1284	C ₂₀ H ₂₁ O ₇	10.5	0.56
22		Hexamethoxy-flavone (I)	[M+H] ⁺	403.1389	C ₂₁ H ₂₃ O ₈	10.5	0.51
23		Hexamethoxy-dihydroxy-flavone (II)	[M+H] ⁺	435.1287	C ₂₁ H ₂₃ O ₁₀	10.5	0.20
24	9.42	Dimethoxy-flavone	[M+H] ⁺	283.0966	C ₁₇ H ₁₅ O ₄	10.5	0.26
25		Tetramethoxy-flavone (I)	[M+H] ⁺	343.1177	C ₁₉ H ₁₉ O ₆	10.5	0.28
26		Pentamethoxy-flavone (III)	[M+H] ⁺	373.1284	C ₂₀ H ₂₁ O ₇	10.5	0.56
27		Hexamethoxy-flavone (II)	[M+H] ⁺	403.1389	C ₂₁ H ₂₃ O ₈	10.5	0.51
28	9.55	Tetramethoxy-flavone (II)	[M+H] ⁺	343.1177	C ₁₉ H ₁₉ O ₆	10.5	0.28
29		Pentamethoxy-flavone (IV)	[M+H] ⁺	373.1284	C ₂₀ H ₂₁ O ₇	10.5	0.56
30		Hexamethoxy-flavone (III)	[M+H] ⁺	403.1389	C ₂₁ H ₂₃ O ₈	10.5	0.51
31	9.82	Trimethoxy-flavone (I)	[M+H] ⁺	313.1068	C ₁₈ H ₁₇ O ₅	10.5	-0.77
32	10.04	Methoxy-dihydroxy-flavone	[M+H] ⁺	285.0757	C ₁₆ H ₃₃ O ₅	10.5	-0.04
33		Trimethoxy-flavone (II)	[M+H] ⁺	313.1068	C ₁₈ H ₁₇ O ₅	10.5	0.51
34		Tetramethoxy-flavone (II)	[M+H] ⁺	343.1177	C ₁₉ H ₁₉ O ₆	10.5	0.28
35	10.21	Flavone	[M+H] ⁺	223.0747	C ₁₅ H ₁₁ O ₂	10.5	-2.76
36	10.45	Methoxy-flavone	[M+H] ⁺	253.0859	C ₁₆ H ₁₃ O ₃	10.5	0.12
BIBENZYL DERIVATIVES							
37	10.50	Bisbibenzyl derivative	[M-H] ⁻	441.1707	C ₂₈ H ₂₅ O ₅	16.5	-0.06
38	10.76	Riccardin C	[M-H] ⁻	423.1603	C ₂₈ H ₂₃ O ₄	17.5	0.37
39	11.22	Bisbibenzyl derivative	[M-H] ⁻	425.1757	C ₂₈ H ₂₅ O ₄	16.5	-0.34
40	11.39	Bisbibenzyl derivative	[M-H] ⁻	455.1867	C ₂₉ H ₂₇ O ₅	16.5	0.75
TOCOPHEROLS AND TOCOENOLS							
41	11.92	δ-Tocotrienol	[M+H] ⁺	397.3104	C ₂₇ H ₄₁ O ₂	7.5	0.89
42	12.67	δ-Tocodienol	[M+H] ⁺	399.3261	C ₂₇ H ₄₃ O ₂	6.5	0.29
43	13.81	α-Tocodienol	[M+H] ⁺	427.3571	C ₂₉ H ₄₇ O ₂	6.5	0.06
44	13.81	(β or γ)-Tocodienol	[M+H] ⁺	413.3414	C ₂₈ H ₄₅ O ₂	6.5	0.02
45	14.35	δ-Tocopherol	[M+H] ⁺	403.3546	C ₂₇ H ₄₇ O ₂	4.5	-2.48
46	14.39	α-Tocotrienol	[M+H] ⁺	425.3415	C ₂₉ H ₄₄ O ₂	7.5	0.27
47	14.86	(β or γ)-Tocomonoenol	[M+H] ⁺	415.3568	C ₂₈ H ₄₇ O ₂	5.5	-0.25
48	16.74	(β or γ)-Tocopherol	[M+H] ⁺	417.3682	C ₂₈ H ₄₉ O ₂	4.5	-4.47
49	16.84	(β or γ)-Tocotrienol	[M+H] ⁺	411.3259	C ₂₈ H ₄₃ O ₂	7.5	0.35
50	16.84	δ-Tocomonoenol	[M+H] ⁺	401.3421	C ₂₇ H ₄₅ O ₂	5.5	-0.22
51	16.99	α-Tocomonoenol	[M+H] ⁺	429.3703	C ₂₉ H ₄₉ O ₂	5.5	-0.37
52	17.16	(β or γ)-Tocotrienol	[M+H] ⁺	411.3261	C ₂₈ H ₄₃ O ₂	7.5	0.32

53	17.31	(β or γ)-Tocopherol	[M+H] ⁺	417.3729	C ₂₈ H ₄₉ O ₂	4.5	-0.18
54	17.37	α -Tocopherol	[M+H] ⁺	431.3848	C ₂₉ H ₅₁ O ₂	4.5	-3.53
PHENYLALKANE DERIVATIVES							
55	16.65	1-Phenyl octadecane-1,3-diyl-diacetate or 16-Methyl-phenylpentadecane-1,3-diyl-diacetate	[M+H] ⁺	447.3468	C ₂₈ H ₄₇ O ₄	5.5	0.06
56	17.21	1-Phenylhexadecane-1,3-diyl-diacetate or 14-Methyl-phenylpentadecane-1,3-diyl-diacetate	[M+H] ⁺	419.3159	C ₂₆ H ₄₃ O ₄	5.5	0.72
57	17.45	1-Phenyltetradecane-1,3-diyl-diacetate or 12-Methyl-phenyltriadecane-1,3-diyl-diacetate	[M+H] ⁺	391.2844	C ₂₄ H ₃₉ O ₄	5.5	0.19
OTHER COMPOUNDS							
58	7.38	Vanillic acid	[M-H] ⁻	167.0351	C ₈ H ₇ O ₄	5.5	0.95

TABLE S4: GENE/PROTEIN NAMES ASSOCIATED WITH BIOACTIVE PHYTOCHEMICALS

NAME	DBID	SYNONYMS
AKT1	ENSP00000451828	Akt, protein kinase B, Rac, Akt1, PKBalpha, v-akt murine thymoma viral oncogene homolog 1, PKB-alpha, protein kinase Balpha, AKT-1, protein kinase B-alpha, hAKT1, Akt 1, protein kinase B alpha, Pkb, proteinkinase B, protein kinase-B, Akt1 human, RA-C, RAC-alpha serine/threonine-protein kinase, v-akt murine-thymoma viral-oncogene-homolog 1, v-Akt murine thymoma viral oncogene homolog-1, AKT serine/threonine kinase 1, protein-kinase B, protein kinaseB, proteinkinaseB
MAPK3	ENSP00000263025	ERK 1, Erk1, MAPK3, extracellular signal-regulated kinase 1, p44 MAPK, extracellular signal-regulated kinase-1, p44mapk, p44erk1, ERK-1, extracellular signal regulated kinase-1, ERT2, Erk 1P, extracellular-signal regulated kinase 1, p44-MAPK, extracellular signal regulated kinase 1, ERK-1-P, mitogen-activated protein kinase 3, mitogen-activated protein kinase3, mitogen-activated protein kinase-3, extracellular signal-regulated-kinase 1
TP53	ENSP00000269305	p53, TP53, tumor suppressor p53, Trp53, TP 53, tumor protein p53, tumor-suppressor p53, cellular tumor antigen p53, p53 human, TP53 p, p-53, p 53, U94788, phosphoprotein p53, p53-P, p53p, TP-53, T-p53, p53 p, tumorsuppressor p53, 2 BIM, tumor- suppressor p53, Hp53, p53- human, 2vuk, TP53-p, 2-bim, 1 PET, p53 - p
PTGS2	ENSP00000356438	COX-2, COX2, cyclooxygenase-2, PGHS-2, Cyclooxygenase 2, hCox-2, Ptg2, prostaglandin endoperoxide synthase 2, Cox2p, prostaglandin-endoperoxide synthase 2, pHS2, cyclo-oxygenase 2, PGG/HS, prostaglandin-endoperoxide synthase-2, EC 1.14.99.1, cyclo-oxygenase-2, COX 2, PHS-2, cyclooxygenase -2, COX- 2, cyclooxygenase- 2, Prostaglandin G/H synthase 2, prostaglandin G/H synthase-2, cycloo-xygenase-2, cyclooxygenase2, prostaglandin H2 synthase 2, PTGS-2, Cyclo-oxygenase2, COX -2, prostaglandin-endoperoxide-synthase-2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase, Prostaglandin- endoperoxide synthase 2, prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclo-oxygenase, prostaglandin endoperoxide synthase-2

IL6	ENSP00000385675	IL6, HGF, IL-6, interleukin 6, interleukin-6, IFN-beta2, IFNB2, BSF-2, IFN-beta 2, hybridoma growth factor, 1 Alu, interferon-beta-2, B cell stimulatory factor 2, interferon-beta 2, IFN beta 2, interferon beta 2, interferon beta2, B-cell stimulatory factor 2, hIL-6, H-IL-6, interleukin6, 1-IL-6, 1 IL-6, inter-leukin-6, hIL6, IL 6, Interleukin- 6, IL- 6, 2 IL-6, B cell stimulatory factor-2, BSF2, IL -6, Interleukin -6, interleukin - 6
NFE2L2	ENSP00000380252	NRF-2, Nrf2, NF-E2-related factor 2, HEBP1, NFE2L2, nuclear factor erythroid 2-related factor-2, nuclear factor-erythroid 2-related factor 2, Nuclear factor, erythroid-derived 2, like 2, NF-E2 related factor-2, Nuclear factor erythroid-2 related factor 2, nuclear factor erythroid 2-related factor 2, NF-E2 related factor 2, NF-E2-related factor-2, NF-E2-related factor2, nuclear factor erythroid-2-related factor 2, Nuclear factor-erythroid 2 related factor 2, nuclear factor-erythroid 2-related factor-2, Nuclear factor erythroid-2-related factor-2, nuclear factor-erythroid-2-related factor 2, NFE2-related factor 2, NRF 2, nuclear factor, erythroid derived 2, like 2, nuclear factor-like 2, nuclear-factor-erythroid-2-related-factor-2, Nuclear factor erythroid-2 related factor-2, Nuclear factor, erythroid 2-like 2, nuclear factor erythroid-2-related-factor-2, nuclear factor-erythroid-2-related factor-2, hNrf2, nuclear factor, erythroid 2 like 2, nuclear factor erythroid 2 related factor 2, nuclear factor, erythroid 2 like-2, nuclear factor erythroid2-related factor 2, Nuclear factor erythroid 2-related factor2, nuclear factor-erythroid 2-related factor2, nuclear factor - erythroid - 2 - related factor 2, nuclear factor-erythroid 2 related factor-2, nuclear factor erythroid2-related factor2, Nuclear Factor, Erythroid-2-Like-2, nuclear factor-erythroid 2 -related factor 2
MMP9	ENSP00000361405	matrix metalloproteinase 9, MMP-9, gelatinase B, matrix metalloproteinase-9, 92-kDa type IV collagenase, MMP9, matrix-metalloproteinase-9, 92 kDa type IV collagenase, CLG4B, gelatinase-B, 92-kDa gelatinase, 92 kDa gelatinase, EC 3.4.24.35, MMP 9, matrix-metalloproteinase 9, matrixmetallopoteinase-9, matrix metalloproteinase 9, matrix metallopro-teinase-9, hMMP9, matrix metalloproteinase-9, 92kDa type IV collagenase, matrixmetallopoteinase-9, matrix metalloproteinase-9, matrix metallo proteinase 9, Matrix metalloproteinase -9, matrix metalloproteinase- 9, matrix metalloproteinase9, Matrix metalloproteinase9, MMP- 9, 1L6J, MMP -9

EGFR	ENSP00000275493	ErbB, epidermal growth factor receptor, EGFR, ErbB1, EGF-R, ErbB-1, epidermal growth factor-receptor, HER1, ErbB 1, ErbB2 receptor tyrosine kinases, Erb B, Erb B-1, epidermal-growth-factor receptor, epidermal-growth-factor-receptor, epidermal growth-factor receptor, EG FR, EGF R, erb-B, epidermalgrowth factor receptor, HER-1, men--a, proto-oncogene c-erbB1, erb-b1, proto-oncogene c-erb-B1, epi- dermal growth factor receptor, hErbB-1, men-a, MENA, epidermal growth factor receptor, epidermal growth factor receptor, epidermal growth factor receptor, epidermal growth-factor-receptor, EGFR-202, Men - A, epidermal-growth factor receptor, EGFR Human, HER 1, 2 ITP, proto-oncogene c-erbB-1
TNF	ENSP00000398698	TNF, TNF-alpha, TNFA, TNFalpha, TNF alpha, cachectin, tumor-necrosis factor superfamily, tumor-necrosis-factor, tumor necrosis factor superfamily, tumor necrosis-factor, Tumor-necrosis factor, 1 TNF, Tumor Necrosis Factor, TNF-a, TNF- alpha, TNF A, TNFSF2, tumor necrosis factor super-family, TNF superfamily, member 2, tumor necrosis factor-superfamily, Dif, TNF -A, tumor necrosis factor super family
CDKN1A	ENSP00000384849	p21, Cip1, Waf1, p21CIP1/WAF1, Cdkn1a, p21CIP1, cyclin-dependent kinase inhibitor 1A, CDKN1, PIC1, p 21, Sdi1, Hp 2-1, Hp2-1, p21 Cip1, WAF-1, CIP-1, cyclin-dependent kinase inhibitor 1, PIC-1, p-21, p21Cip1/WAF-1, p2 1, Cyclin-dependent kinase-inhibitor 1, Cap20, Mda-6, Sdi-1, MDA6, p21CIP-1, CIP 1, p21-p, p21 Cip1/Waf1, Cyclin-dependent kinase inhibitor-1A, p21CIP-1/WAF-1, p21-Cip1, CDK-interacting protein 1, Cyclin-Dependent Kinase Inhibitor-1, cyclin dependent kinase inhibitor 1A, P2-1, cyclin dependent kinase inhibitor 1, HP21
JUN	ENSP00000360266	c-Jun, AP-1, Jun, HAP-1, transcription factor AP-1, activator protein 1, HAP1, p39, jun oncogene, Cjun, jun proto-oncogene, proto-oncogene c-Jun, JUN protooncogene, Ap1, transcription factor AP1, activator protein1, Activator protein-1, activator-protein 1, c- jun, v-JUN avian sarcoma virus 17 oncogene homolog, Activator-Protein-1, c Jun, Jun proto-oncogene, AP-1 transcription factor subunit, protooncogene c-jun

ESR1	ENSP00000405330	estrogen receptor, estrogen receptor alpha, 2-p15, 2p15, ERalpha, ER-alpha, ER alpha, estrogen receptor-alpha, 4-q13, ESR1, estrogen-receptor, 5 due, estrogen receptor 1, oestrogen receptor alpha, ERa, oestrogen receptor-alpha, oestrogen-receptor-alpha, estradiol receptor, 4q 13, 5 TMS, NR3A1, Esr, 2----p15, ESR 1, ER-a, estrogen-receptor-alpha, 5 T MR, estrogen-receptor alpha, hesr1, estrogen receptor-1, estrogen receptor-a, 5-E15, estrogen receptor- 1, estrogen receptor -alpha, ESR-1, oestrogen receptoralpha, estrogen receptoralpha, estrogen receptor1, estrogen receptor- alpha, E2 receptor-alpha, estrogen receptor, estrogen receptor, ESR1P, 5 ACC, AL356311, estrogen receptora, ESR1-008, ESR1-203, 4-PPs, 4 mgC, 4mgC, 5TMS, 5-e19
MAPK1	ENSP00000215832	p38, p42 MAPK, ERK2, p41mapk, mitogen-activated protein kinase 1, MAPK1, p41, extracellular signal-regulated kinase 2, p42mapk, MAPK 1, erk, mitogen activated protein kinase 1, MAPK2, extracellular signal-regulated kinase-2, ERK-2, 5 NHL, extracellular signal regulated kinase 2, p38-P, p-38, p42-MAPK, Extracellular signal regulated kinase-2, extracellular-signal-regulated kinase2, ERK-2-P, Erk 2, mitogen-activated protein kinase-1, extracellular-signal-regulated kinase 2, extracellular signal regulated-kinase-2, mitogen-activated-protein-kinase 1, MAPK1 p, extracellular signal-regulated kinase2, Mitogen-Activated Protein Kinase 2, MAPK-1, 3W 55, HP40, ER K, mitogen- activated protein kinase 1, mitogen activated protein kinase1
GABPA	ENSP00000346886	NRF-2, Nrf2, GABPA, transcription factor E4TF1-60, E4TF1-60, nuclear respiratory factor 2 alpha subunit, GA-binding protein transcription factor, alpha subunit, D13318, NRF 2, hNrf2, Nrf2-a, nrf2a
MAPK14	ENSP00000229795	p38, p38 alpha, p38alpha, p38 MAP kinase, 3 new, Mapk14, Mxi2, CSBP2, CSBP, SAPK2a, CSBP1, p38-MAP kinase, p38 MAP-kinase, p38-P, mitogen-activated protein kinase 14, p-38, 3 mGy, p38MAP kinase, p38 MAPKinase, p38MAP-kinase, 3 MPA, 3 hub, 3 FLs, Mxi-2

STAT3	ENSP00000264657	STAT3, signal transducer and activator of transcription 3, Stat-3, Acute-phase response factor, APRF, signal transducer and activator of transcription-3, acute phase response factor, STAT 3, STAT3 P, Stat 3P, signal-transducer-and-activator-of-transcription-3, signal transducer and activator of transcription3, STAT3-P, signal-transducer and activator of transcription 3, hSTAT3, signal transducer and activator of transcription 3, signal transducer and activator of transcription 3, signal transducer and activator of transcription 3 (acute-phase response factor
EGF	ENSP00000265171	EGF, epidermal growth factor, epidermal-growth-factor, epidermal growth-factor, pro-epidermal growth factor, epidermal-growth factor, Epidermal growth factor, epidermalgrowth factor, Epidermal growthfactor
AR	ENSP00000363822	HUMARA, AR, androgen receptor, dihydrotestosterone receptor, androgen-receptor, Tfm, 1E3-G, Dihydrotestosterone-receptor, A-ls, NR3C4, AR8, SMAX1, ar202, Androgenreceptor, AI s, HU-MARA
AHSA1	ENSP00000216479	p38, Aha1, p38-P, p-38, Ahsa1, Activator of 90kDa heat shock protein ATPase homolog 1
CRK	ENSP00000300574	p38, CrkII, Crk, Crk-II, protooncogene C-CRK, p38-P, p-38
GRAP2	ENSP00000339186	p38, growth factor receptor-binding protein, GADS, grap-2, Grap2, Grb-2 related adaptor protein 2, p38-P, p-38, growth factor receptor binding protein
RNF19A	ENSP00000428968	p38, Dorfin, double ring-finger protein, p38-P, double RING finger protein, p-38
POLDIP2	ENSP00000475924	p38, HSPC017, PDIP38, p38-P, p-38, POLDIP2, POLD4, Polymerase delta-interacting protein 2, Polymerase Delta Interacting Protein 2

IGF1	ENSP00000302665	IGF-I, IGF-1, igf1, insulin-like growth factor I, insulin-like growth factor-I, insulin-like growth factor 1, MGF, somatomedin-C, insulin-like growth factor-1, IBP-1, IGFI, somatomedin C, IGF I, insulin like growth factor 1, insulin like growth factor-1, insulin-like-growth-factor I, insulinlike growth factor-I, IGF 1, insulin-like growth factor - 1, insulin-like growth-factor-I, 1GF-1, IGF- 1, mechano growth factor, insulin-like-growth factor-1, hIGF-1, Insulin like-growth factor I, mechano-growth factor, insulin-like growth factor1, insulinlike growth factor 1, Insulinlike growth factor-1, insulin like growth factor I, insulin-like-growth factor 1, Insulin-like-Growth Factor-I, IGF-1 A, Insulin like growth factor-I, insulin-like growth-factor I, insulin like growth factor -1, insulin like growth factor- I, hIGF1, Insulin like-growth factor-1, IGF - 1
FOS	ENSP00000306245	AP-1, Fos, c-fos, proto-oncogene c-fos, p55, c- fos, G0S7, Ap1, protooncogene c-fos, cFOS, proto-oncogene cfos, p 55, v-fos FBJ murine osteosarcoma viral oncogene homolog, FBJ murine osteosarcoma viral oncogene homolog, cellular oncogene fos, HP55, cF-OS, Fos proto-oncogene, AP-1 transcription factor subunit
AIMP2	ENSP00000223029	p38, AIMP2, aminoacyl tRNA synthetase complex interacting multifunctional protein 2, p38-P, p-38, JTV-1, aminoacyl tRNA synthetase complex-interacting multifunctional protein 2, JTV1, aminoacyl-tRNA synthetase complex-interacting multifunctional protein 2
INS	ENSP00000380432	insulin, INS, IDDM1, ILPR, 2 WS1, 5-EMs, 3 in c, 2 CEU, 1 hit, 1-His, 3W 12, IRDN, 1hi T, 1 Efe
MMP2	ENSP00000219070	MMP-2, MMP2, gelatinase A, 72-kDa type IV collagenase, matrix metalloproteinase-2, matrix metalloproteinase 2, TBE1, gelatinase-A, CLG4, 72 kDa gelatinase, 72-kDa gelatinase, matrix metalloproteinase -2, matrix-metalloproteinase-2, 72 kda type IV collagenase, 72-kDa type-IV collagenase, MMP 2, MMP-II, matrix metalloproteinase-2, matrix metalloproteinase 2, matrix metalloproteinase-2, MMP- 2, matrix metalloproteinase2, matrix metalloproteinase -2, matrix-metalloproteinase 2, matrix metalloproteinase- 2, matrix metallo peptidase 2, TBE-1, EC 3.4.24.24

CASP3	ENSP00000311032	SCA1, caspase-3, SCA 1, Sca-1, CASP3, caspase 3, 2 DKO, CPP32, apopain, YAMA, caspase -3, casp-3, caspase3, caspase- 3, cysteine protease CPP32, 1 nM E, CPP-32, Casp 3, caspase 3, 2-DKO, caspase 3, apoptosis-related cysteine protease
TTPA	ENSP00000260116	alpha-tocopherol transfer protein, TPP1, ATPP, TTPA, alpha-tocopherol-transfer protein, alpha TTP, alphaTTP, alpha-TTP, alpha-tocopherol transfer protein, TPP-1, TTP1, alpha tocopherol transfer protein, TTP-1, tocopherol transfer protein, 5 mu g, Ataxia with vitamin e deficiency, tocopherol-transfer protein, a-tocopherol transfer protein
BDNF	ENSP00000414303	BDNF, brain-derived neurotrophic factor, brain derived neurotrophic factor, neurotrophin, Brain-Derived-Neurotrophic-Factor, brain-derived neurotrophic factor, brain-derived neurotrophic-factor, brain-derived-neurotrophic factor, brainderived neurotrophic factor, Brain-derived neuro-trophic factor, BDNF human, brain-derived neurotrophic factor, Brainderived Neurotrophic Factor
JUND	ENSP00000252818	AP-1, JUND, activator protein 1, jun D, Ap1, jun-D, activator protein1, transcription factor JunD, Activator protein-1, activator-protein 1, jun d proto-oncogene, Activator-Protein-1, JunD Proto-Oncogene
NSG1	ENSP00000388823	p21, Hp2-1, D4S234, p 21, Hp 2-1, p-21, p2 1, p21-p, P2-1, NEEP21, HP21
TCEAL1	ENSP00000361708	TCEAL1, p21, Hp2-1, SIIR, pp21, Hp 2-1, p 21, p-21, p2 1, p21-p, p-p21, P2-1, HP21

ERBB2	ENSP00000269571	<p>HER2/neu, HER-2/neu, HER-2/ neu, erbB2, HER2, ErbB-2, p185erbB2, Her-2, human epidermal growth factor receptor 2, human epidermal growth factor receptor-2, Her 2, Erb-B2, v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2, Erb B-2, p185erbB-2, cd 340, HER2/ neu, HER2 / neu, proto-oncogene c-erbB-2, HER 2/neu, erb-B-2, HER-2 /neu, proto-oncogene c-erbB2, erb B2, HER-2 p, HER -2/ neu, hHER-2, Her - 2 / neu, human epidermal growth factor receptor2, p 185ERBB2, protooncogene c-erbB-2, neuro/glioblastoma derived oncogene homolog, human epidermal growth factor receptor 2, human epidermal growth-factor receptor-2, human epidermal growth factor receptor 2, tyrosine kinase-type cell surface receptor HER2, HER2-p, erb-b2 receptor tyrosine kinase 2, V-Erb-B2 avian erythroblastic leukemia viral oncogene homolog-2, Human epidermal growth factor receptor - 2, ErbB2 Receptor Tyrosine Kinase 2, p185-ERBB2, receptor tyrosine-protein kinase erbB-2, human epidermal growth factor-receptor 2, HumanEpidermal Growth Factor Receptor 2, hHER2, ErbB2 human, ErbB 2, H uman Epidermal Growth Factor Receptor 2, human-epidermal-growth-factor-receptor 2, 3RCD, CD340, human epidermal growth-factor receptor 2, ERBB-2 - p</p>
HIF1A	ENSP00000437955	<p>hypoxia-inducible factor 1alpha, HIF-1alpha, HIF-1, Hif1a, HIF-1 alpha, Hif1 alpha, HIF1alpha, hypoxia inducible factor 1alpha, hypoxia-inducible factor-1alpha, hypoxia-inducible factor-1 alpha, MOP1, HIF1, hypoxiainducible factor-1alpha, hypoxia-inducible factor 1 alpha, hypoxia inducible factor-1alpha, hypoxia-inducible factor 1, alpha subunit, Hypoxia inducible factor 1 alpha, hypoxia inducible factor-1 alpha, HIF1-alpha, HIF-1a, hypoxia-inducible-factor-1 alpha, hypoxia-inducible-factor 1alpha, HIF- 1 alpha, hypoxia-inducible factor 1-alpha, HIF-1-alpha, Hypoxia inducible factor 1-alpha, hypoxia-inducible factor-1-alpha, HIF 1alpha, HIF 1-alpha, hypoxia inducible factor 1 alpha subunit, hypoxia-inducible factor -1alpha, Hypoxia inducible-factor1alpha, Hypoxia-inducible factor 1 alpha subunit, 1LM8, HIF 1 alpha, hypoxia inducible factor-1-alpha, hypoxia inducible factor1 alpha, hypoxia-inducible-factor 1-alpha, Hypoxia Inducible Factor -1 alpha, hypoxia-inducible factor1-alpha, hypoxia-inducible-factor-1alpha, HIF1-a, hypoxia-inducible factor-1 alpha subunit, Hypoxia-inducible factor -1 alpha</p>

HRAS	ENSP00000407586	Ha-ras, K-ras, p21 Ras, N-Ras, NRAS, Kras2, H-Ras, KRAS, HRAS1, HRAS, Harvey rat sarcoma viral oncogene homolog, Kras-2, p21RAS, c-Ha-ras-1, p21-ras, c-Ha-ras1, c-Ha-ras 1, v-Ha-ras Harvey rat sarcoma viral oncogene homolog, c-Ha ras-1, c-Ha- ras1, 5p21, c-H-ras, 1 AGP, Hras-1, 1AGP, H-ras-1, 1 q21, K-ras-2, 2 q21, Ha ras, 1-AGP, 1q 21, H-ras 1, K ras, H-ras1, K- ras, k- ras -2, 2Rgc, H ras, HaRas, K-ras2, K -ras, H- ras, N- RAS, GTPase HRas, 1 q 21, 2 CIC, H-p21Ras, HRas proto-oncogene, GTPase, CTlo, H -ras, K-ras 2, c-bas/has, 1 PLL, cHa-Ras-1
LEP	ENSP00000312652	leptin, LEP, ObS, obese protein
JUNB	ENSP00000303315	AP-1, JunB, jun B, Ap1, jun-B, transcription factor JunB, junB proto-oncogene, junB protooncogene, transcription factor Jun B, transcription factor jun-B
CXCL8	ENSP00000306512	IL-8, interleukin-8, interleukin 8, NAP-1, CXCL8, IL8, hNap1, TSG-1, Monocyte-derived neutrophil chemotactic factor, Neutrophil-activating peptide-1, NAP1, MDNCF, MONAP, T cell chemotactic factor, GCP-1, chemokine ligand 8, TSG1, CXCL-8, interleukin- 8, NAP 1, interleukin8, LUCT, IL 8, chemokine ligand-8, IL- 8, chemokine (C-X-C motif) ligand 8, C-X-C motif chemokine ligand 8, interleukin - 8, interleukin -8, hIL-8, C-X-C motif chemokine 8, 3-10C
CYP1A1	ENSP00000369050	cytochrome P-4501A1, AhRR, CYP1A1, hCyP1, cytochrome P-450C, P1-450, CYPIA1, Cyp1a-1, CYP1, cytochrome P450 1A1, hCYP1A1, cytochrome P450 family 1, EC 1.14.14.1, Cyp 1a1, cytochrome P-450 1A1, cytochrome P4501A1, CYP I A1, CYP-1A1, cytochrome-P450 1A1, cytochrome P450-1A1, Cyp 1a-1, Cytochrome P450, family 1, subfamily A, polypeptide 1, cytochrome P450c, cytochrome P 450 1A1, Cytochrome P 4501A1, CYP1 A1, cytochrome P450 family 1 subfamily A member 1, A-HH
CCND1	ENSP00000227507	Ccnd1, cyclin D1, PRAD1, bcl-1, D11S287E, cyclinD1, BCL1, BCL1 oncogene, U21B31, PRAD 1, PRAD-1, bcl -1, cyclin-D1, PRAD1 oncogene, BCL-1 oncogene, Bcl 1, CCN D1, cy-clin D1, Ccnd-1, Cyclin D-1, Cyclin D 1, CCND 1, CyclinD-1, cyclinD 1, B-CL1, PRAD-1 oncogene
FOSB	ENSP00000245919	AP-1, activator protein 1, FosB, Ap1, activator protein1, Activator protein-1, activator-protein 1, fos B, fos-B, GOS-3, FBJ murine osteosarcoma viral oncogene homolog B, GOS3, AP- 1, oncogene Fosb, Activator-Protein-1, FosB Proto-oncogene, AP-1 Transcription Factor Subunit

HGF	ENSP00000222390	HGF, Hepatocyte growth factor, scatter factor, lung fibroblast-derived mitogen, Hepatocyte growth-factor, F-TCF, hepatocyte-growth-factor, hepatocyte-growth factor
HMOX1	ENSP00000216117	HO-1, Heme oxygenase-1, Hsp32, Hmox1, heme oxygenase 1, heme-oxygenase-1, HO1, HSP-32, heme oxygenase- 1, hHO-1, hemeoxygenase-1, HMOX-1, heme oxygenase1, heme-oxygenase 1, hemeoxygenase 1, HO- 1, heme oxygenase (decycling) 1
CFTR	ENSP00000003084	cystic fibrosis transmembrane conductance regulator, CFTR, MRP7, ABCC7, cAMP-dependent chloride channel, cystic fibrosis transmembrane-conductance regulator, cystic fibrosis transmembrane conductance regulator, CTFR, cystic-fibrosis transmembrane-conductance regulator, cystic-fibrosis transmembrane conductance regulator, cystic fibrosis trans membrane conductance regulator, cAMP dependent chloride channel, cystic fibrosis transmembrane conductance regulator (ATP-binding cassette subfamily C, member 7, ATP binding cassette sub-family C, cystic fibrosis transmembrane conductance regulator (ATP-binding cassette sub-family C, member 7, ATP-binding cassette subfamily C, member 7, cystic fibrosis transmembrane conductance regulator, CFTR human, cystic fibrosis-transmembrane conductance regulator, ATP-binding cassette sub-family C, CFTR/MRP, cystic fibrosis transmembrane conductance-regulator, ABC-C7, ATP binding cassette subfamily C, cystic-fibrosis-transmembrane-conductance-regulator
MT-CO2	ENSP00000354876	COX II, Cox-2, COII, Cox2, CO II, cytochrome C oxidase subunit II, COXII, Cox2p, MT-CO2, cytochrome C oxidase II, hCOX-2, COX 2, MTCO2, COX-II, COX- 2, cytochrome c oxidase subunit 2, COX -2, cytochrome c oxidase polypeptide II, Col I
SIRT1	ENSP00000212015	SIR2, sirtuin, Sir2alpha, Sir2p, SIRT1, sirtuins, hSIR2, sirtuin 1, sirtuin-1, SIRTUIN1, hSIRT1, Sir2-like protein 1, Sirt-1, SIRT 1, Sir 2, NAD-dependent protein deacetylase sirtuin-1, NAD-dependent protein deacetylase sirtuin 1

RAF1	ENSP00000251849	Raf-1, Raf, RAF1, c-Raf, CRAF, RAF family, Raf- 1, v-raf-1 murine leukemia viral oncogene homolog 1, RNase3, RNase 3, C- Raf, v-raf-1 murine leukemia viral oncogene homolog-1, RAF proto-oncogene serine/threonine-protein kinase, proto-oncogene C-Raf, Raf-1 proto-oncogene, serine/threonine kinase, C-Raf proto-oncogene, serine/threonine kinase, C RAF, RAF protooncogene serine/threonine-protein kinase
MTOR	ENSP00000354558	RAFT1, mammalian Target of Rapamycin, mTOR, mTOR complex 1, mechanistic target of rapamycin, rapamycin and FKBP12 target 1, FRAP1, mTOR complex 2, 1 FAP, 2 FAP, FRAP2, mammalian-target-of-rapamycin, FKBP-rapamycin-associated protein, mammalian-target of rapamycin, mammalian target-of-rapamycin, mTOR complex1, mammalian target of rapamycin, FK506 binding protein 12-rapamycin associated protein 1, FKBP12-rapamycin complex-associated protein 1, mTor-complex-2, mTOR complex-1, mTOR complex-2, mechanistic target of rapamycin (serine/threonine kinase, mechanistic target of rapamycin kinase, serine/threonine protein kinase mTOR, m-TOR, 4 FAP, mTOR complex2, 2FAP, mammalian-target-of rapamycin, mechanistic target-of-rapamycin, serine/threonine-protein kinase mTOR, 3 FAP
FGF2	ENSP00000264498	fibroblast growth factor-2, basic fibroblast growth factor, FGF-2, bFGF, fibroblast growth factor 2, FGF2, HBGF-2, FGFB, fibroblast growth factor 2 (basic, fibroblast-growth factor 2, hFGF-2, b-FGF, hFGF2, basic fibroblast-growth factor, basic-fibroblast growth factor, 1 C vs, fibroblast growth factor2, basic fibroblast growth factor, FGF-b, 2 FGF, b FGF, FGF 2, fibroblast-growth-factor-2
KRAS	ENSP00000256078	Ki-ras, K-Ras, Kras2, KRAS, Kras 4A, c-Ki-ras2, c-Ki-ras, c-K-ras, KRAS4A, K ras, KRAS4B, K-ras-2, c-Ki- ras2, K-Ras4A, Kras-2, K-ras-1, c-Ki-ras-2, K- ras, K-Ras4B, k- ras -2, cKRAS, Ki- ras, K-ras2, Kirsten rat sarcoma viral oncogene homolog, NS3P, K -ras, v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog, c-Ki-ras 2, K-ras 4A, K-ras 4B, KRAS-1, KRAS-4A, GTPase K-ras, HNS3, HNS-3, GTPase KRas, KRAS proto-oncogene, GTPase, HCFC2, Kirsten-rat sarcoma viral oncogene homolog, KRAS 4B, KRAS-4B, K-ras 2, v-Ki-ras-2 Kirsten rat sarcoma viral oncogene homolog, Kiras

SRC	ENSP00000362680	Src, Src family tyrosine kinases, c-Src, SRC-1, pp60c-src, p60Src, proto-oncogene c-src, cSrc, SRC1, protooncogene c-src, Src-family tyrosine kinases, 2 Src, 1a1b, p60-SRC, 1A1--a, proto-oncogene tyrosine-protein kinase Src, v-src avian sarcoma viral oncogene homolog, 1 HCs, Src proto-oncogene, non-receptor tyrosine kinase, SRC proto-oncogene, nonreceptor tyrosine kinase
ESR2	ENSP00000343925	ERbeta, estrogen receptor beta, ESR2, ER beta, estrogen receptor 2, estrogen receptor-beta, oestrogen receptor beta, ESR beta, erb, ER-beta, oestrogen receptor-beta, ER-B, hesr2, ESR-beta, estrogen receptor b, ESR-b, Estrogen-receptor beta
APOE	ENSP00000252486	Apolipoprotein E, apo E, APOE, APOE4, APOE-4, AD2, apolipoprotein-E, apo-E, apo E4, apolipo-protein E, apo E-4, APOE 4, 1 or -2, Apo-E4, apo E 4, apolipoproteinE, 1 or -3, h-apoE4, AF261279, Apo lipoprotein E, hAPOE4, APOE-005, APOE-001, AD-2, Ad 2, ApoE human
CCL2	ENSP00000225831	MCP-1, monocyte chemoattractant protein-1, CCL2, MCAF, monocyte chemotactic protein-1, monocyte chemoattractant protein 1, Scya2, Mcp1, small inducible cytokine A2, monocyte chemotactic protein 1, chemokine ligand 2, GDCF-2, Ccl-2, chemokine (C-C motif) ligand 2, monocyte chemotactic and activating factor, monocyte-chemotactic protein-1, Monocyte-chemo-attractant-protein-1, monocyte-chemo-attractant protein-1, hMCP-1, monocyte-chemoattractant protein-1, MCP 1, monocytechemoattractant protein 1, chemokine (C-C motif) ligand-2, 1 mL 0, cc l2, monocyte-chemoattractant-protein-1, MCP- 1, Monocyte-chemotactic-protein-1, chemokine (CC motif) ligand-2, C-C motif chemokine ligand 2, C-C motif chemokine 2, chemokine ligand-2, SMC-CF, monocyte chemotactic protein-1, monocyte chemo-attractant protein-1, monocyte chemoattractant protein -1, monocyte chemotactic protein -1, monocyte chemo-attractant protein 1, chemokine (CC motif) ligand 2, Monocyte Chemoattractant Protein1, CC-motif Chemokine Ligand 2, chemokine-ligand-2, CC motif chemokine ligand 2, monocyte chemoattractantprotein-1, chemokine (C-C- motif) ligand 2, Monocyte-chemoattractant protein 1

MAP2K1	ENSP00000302486	Mek1, MAP2K1, MKK1, mitogen-activated protein kinase kinase-1, MEK 1, MEK-1, mitogen-activated protein kinase kinase 1, PRKMK1, MAPK/ERK kinase 1, 3 MBL, MAPKK-1, mitogen activated protein kinase kinase-1, mitogen activated protein kinase kinase 1, MKK-1, dual specificity mitogen-activated protein kinase kinase 1, dual specificity mitogen activated protein kinase kinase 1, 3 or n, MAP2K1 p
PTEN	ENSP00000361021	PTEN, TEP1, MMAC1, PTEN1, mutated in multiple advanced cancers 1, TEP-1, hTEP1, PTEN human, GLM-2, mutated in multiple advanced cancers-1, mHam, P-TEN
MMP1	ENSP00000322788	Matrix metalloproteinase-1, CLG, MMP1, fibroblast collagenase, MMP-1, matrix metalloproteinase 1, interstitial collagenase, matrix-metalloproteinase-1, hMMP1, EC 3.4.24.7, MMP 1, CLGN, matrix metalloproteinase 1, matrix metallo-proteinase-1, matrix metalloproteinase1, Matrix Metalloproteinase-1
EGR1	ENSP00000239938	Egr-1, Egr1, Zif268, Krox24, NGFI-A, Krox-24, early growth response-1, tis8, early-growth response 1, G0S30, NGFIA, early growth response protein 1, Krox 24, transcription factor Zif268, early growth response 1, early growth response protein-1, early-growth response-1, early-growth-response 1, nerve growth factor-induced protein A, EGR 1, Early Growth Response- 1, zif-268
PLAU	ENSP00000361850	urokinase-type plasminogen activator, u-PA, uPA, PLAU, Atf, urokinase type plasminogen activator, urokinase- type plasminogen activator, urokinase type plasminogen-activator, urokinase-type plasminogen-activator, urokinase type-plasminogen activator, plasminogen activator, urokinase, urokinasetype plasminogen activator, Plau-001, Plau-004, 4 Gly, up-a, Urokinase-type-plasminogen-activator
IL1B	ENSP00000263341	IL-1, IL-1beta, interleukin-1beta, IL-1 beta, interleukin-1B, interleukin 1beta, Il1b, IL1-beta, interleukin-1 beta, IL1, interleukin 1B, IL1beta, interleukin 1 beta, Il-1b, interleukin-1-beta, IL 1 beta, interleukin- 1beta, interleukin 1-beta, interleukin 1- beta, IL1 beta, IL-1-B, IL1 B, IL-1-beta, IL1-B, IL- 1beta, Interleukin1beta, interleukin-1 b, inter-leukin-1 beta, interleukin- 1 beta, IL-1 b, IL 1beta, interleukin 1-B, IL 1, Interleukin 1, beta, IL -1, IL- 1 beta, IL-1 -beta

N	ENSP00000479618	c-Myc, myc, protooncogene c-myc, proto-oncogene c-myc, CMYC, MYCC, 2 or 9, MYC-C, proto-oncogene c- myc, c- myc, myc human, c -MYC, mrt1, Myc C, v-myc avian myelocytomatosis viral oncogene homolog, myc proto-oncogene protein, c Myc, MYC proto-oncogene, bHLH transcription factor, CMY-C
BRCA1	ENSP00000418960	BRCA1, breast cancer 1, breast cancer-1, BRCAI, BRCA 1, breast cancer type 1 susceptibility protein, BRCA1 p, U14680, FANCS, BRCA-1, breast cancer 1, early onset, Breast-Cancer-1, hBRCA1, BRCA1 human, Breast CAncer1, 1T15, BRCA1, DNA repair-associated, BRCA1, DNA repair associated
MCL1	ENSP00000358022	Mcl-1, MCL-1L, bcl-2 family, MCL1, MCL-1S, Bcl2-family, Bcl2 family, E-AT, myeloid cell leukemia-1, myeloid cell leukemia sequence-1, myeloid cell leukemia sequence 1, Bcl-2-family, mcl-1/EAT, myeloid cell leukemia 1, myeloid-cell leukemia sequence 1, MCL1s, Mcl1L, HGNC: 6943, Mcl1-S, MCL1-L, 4-bp I, Bcl 2-family, 5 LoF, hMcl-1, 2MHS, induced myeloid leukemia cell differentiation protein Mcl-1, Mcl-1ES, Mcl -1, mcl1/EAT
CDH1	ENSP00000261769	CDH1, E-cadherin, Ecad, uvomorulin, epithelial cadherin, L-CAM, hCDH1, Arc1, E-cad, cadherin-1, cd 324, cadherin 1, Ecadherin, CDH-1, E cadherin, E- cadherin, CAM 120/80, epithelial-cadherin, Arc-1, cadherin 1, type 1, E-cadherin, cadherin1, CD324
JAK2	ENSP00000371067	Jak2, Janus kinase-2, Janus kinase 2, Jak-2, Janus Kinase2, 5UT1, 5UT4, 5UT5, JAK 2, 5UT3, JAK2 p, Janus-kinase-2, 3KRR, JAK2p, Janus-kinase 2, januskinase-2
BCL2L1	ENSP00000302564	BCL-XL, BCL-2 family, BclXL, BCL-XS, Bcl2l1, Bcl-x, Bcl2l, BCL2 family, Bclx, apoptosis regulator Bcl-X, Bcl-2-family, BCLX-L, BCLX-S, Bcl-x L, Bcl-xL/S, Bcl- xS, BCL2-family, Bcl2-like 1, bcl-x-L, Bcl2-L1, BclXs, Bcl 2-family, BCL-2-like 1, Bcl-2-like protein 1, 2 LPC, hBCL2L1, Bcl xl, BCL2 like 1

NQO1	ENSP00000319788	NQO1, DTD, diaphorase, NMOR1, DIA4, DT-diaphorase, QR1, NAD(P)H:quinone oxidoreductase 1, DIA 4, DT diaphorase, NAD(P)H:quinone oxidoreductase1, NAD(P)H: quinone oxidoreductase 1, hNQO1, NAD(P)H: quinone oxidoreductase1, NAD(P)H:quinone oxidoreductase-1, NAD(P)H:quinone oxidoreductase 1, quinone reductase 1, NQO-1, NAD(P)H:quinoneoxidoreductase 1, NAD(P)H: quinone oxidoreductase-1, NAD(P) H:quinone oxidoreductase 1, NAD(P)H dehydrogenase, quinone 1, NAD(P)H:Quinone Oxidoreductase 1, NAD(P)H dehydrogenase [quinone] 1, NAD (P) H: quinone oxidoreductase 1, NAD(P)H quinone dehydrogenase 1, NAD (P)H:quinone oxidoreductase 1, NAD(P)H Quinone Dehydrogenase-1, 1 kBq, NQ-O1, dt-d, azoreductase, NAD(P)H: quinoneoxidoreductase1
RELA	ENSP00000384273	p65, RelA, transcription factor p65, NFkB3, Rel A, Rel-A, v-rel avian reticuloendotheliosis viral oncogene homolog A, p-65, p65-P
CD44	ENSP00000398632	CD44, Heparan sulfate proteoglycan, CDw44, pgp1, Pgp-1, MC56, CD44 molecule, MIC4, Hermes antigen, heparan-sulfate proteoglycan, CD 44, heparansulfate proteoglycan, CD44 antigen, hyaluronate receptor, CD-44, heparan-sulfate-proteoglycan, HCELL, heparan sulfate-proteoglycan, CD44 molecule (Indian blood group, CD44R, ECMRIII
ICAM1	ENSP00000264832	ICAM-1, intercellular adhesion molecule-1, Hb B2, CD54, ICAM1, human rhinovirus receptor, intercellular adhesion molecule 1, BB2, HbB2, Hb-B2, CD 54, ICAM 1, ICAM- 1, 1 p53, inter-cellular adhesion molecule-1, intercellular-adhesion-molecule-1, Inter-Cellular Adhesion Molecule 1, 1-p53, intercellular adhesion molecule -1, intercellular-adhesion molecule 1, P3.58, intercellular adhesion molecule1, intercellular adhesionmolecule-1

APP	ENSP00000284981	amyloid precursor protein, APP, amyloid-beta precursor protein, amyloid-precursor protein, protease nexin 2, PN-II, Protease nexin-2, PN-2, APP-I, 1 AML, AD1, amyloid beta precursor protein, 2 BP4, Aa----a, Aa A, CTF-gamma, Protease nexin-II, protease nexin II, amyloid precursor-protein, amyloid b precursor protein, 2 LOH, CTFgamma, PreA4, 5 HOX, amyloid beta (A4) precursor protein, amyloid-beta-precursor protein, amyloid beta-precursor protein, cVAP, amyloid-precursor-protein, HA4, 1IYT, 2BEG, PN2, amyloid pre-cursor protein, AD-1, amyloid-beta A4 protein, amyloid beta A4 protein
PPARG	ENSP00000287820	PPAR gamma, PPARgamma, PPAR-gamma, PPARG, peroxisome proliferator-activated receptor gamma, peroxisome proliferator-activated receptor-gamma, peroxisome proliferator activated receptor gamma, peroxisome proliferator activated receptor-gamma, peroxisome-proliferator-activated receptor-gamma, 5-two, peroxisome-proliferator-activated receptor gamma, peroxisome proliferator- activated receptor gamma, PPARg amma, NR1C3, peroxisome-proliferator activated receptor-gamma, PPARG2, peroxisome-proliferator activated receptor gamma, Peroxisome proliferator-activated receptorgamma, peroxisome proliferator activated-receptor gamma, peroxisome proliferator activated receptorgamma, PPAR-g, PPAR- gamma, Pparg1, peroxisome proliferatoractivated receptor-gamma, Peroxisome proliferator-activated- receptor-gamma, peroxisome proliferator-activated receptor g, PPARG-2, peroxisome proliferator-activated receptor g, peroxisome proliferator-activated receptor-g, PPAR-g2, peroxisome-proliferator-activated-receptor-gamma, PPAR G, C-IMT 1, peroxisome proliferator activated receptor - gamma
CYP19A1	ENSP00000379683	aromatase, CYP19, CYP19A1, CYP XIX, P450arom, P-450Arom, CYP 19, cytochrome P-450Arom, estrogen synthase, cytochrome P450arom, ARO1, P450 arom, cytochrome P450, subfamily XIX, cytochrome P450 19A1, Aro 1, cytochrome P450, family 19, subfamily A, polypeptide 1, cytochrome p450 family 19, CYP-19, cytochrome P450 family 19 subfamily A member 1

HSPA4	ENSP00000302961	Hsp70, Hsp70RY, hsp70 RY, Apg-2, HS24/p52, HSP-70, HSph2, HSP 70, heat-shock 70 kDa proteins, heat shock 70-kDa protein 4, heat shock 70 kDa proteins, HSPA4, HapG2, Heat shock protein family A member 4, hHSP70, heat shock 70 kDa protein 4
TNFRSF10B	ENSP00000276431	death receptor 5, DR5, TRAIL-R2, TRICK2, TNFRSF10B, KILLER/DR5, death receptor-5, DR-5, KILLER/ DR5, kill ER, TRAILR2, TRAIL R2, hDR5, TNF-related apoptosis-inducing ligand receptor 2, TNF-receptor superfamily member 10b, TNF-related apoptosis-inducing ligand receptor-2, TNF receptor superfamily member 10b
EDN1	ENSP00000368683	endothelin-1, ET-1, EDN1, preproendothelin-1, PPET-1, endothelin 1, ET1, pre-proendothelin-1, hET-1, EDN-1, prepro endothelin-1, prepro-endothelin-1, ppET1, endothelin- 1, endothelin1, ET- 1, preproendothelin 1, endothelin - 1, EDN 1, E- T1
NOS3	ENSP00000297494	eNOS, NOS 3, NOS3, endothelial nitric oxide synthase, endothelial NOS, Endothelial nitric-oxide synthase, NOS-3, nitric oxide synthase 3, constitutive NOS, ecNOS, nitric oxide synthase-3, AF519768, endothelial nitric oxide-synthase, e-NOS, nitric-oxide synthase 3, ec-NOS, hNOS3, 3 NOS, endothelial-nitric-oxide synthase, Endothelial nitric oxide synthase, endothelial-NOS, NOS type III, endothelial-nitric oxide synthase
GORASP1	ENSP00000313869	p65, GRASP65, GOLPH5, GORASP1, Golgi peripheral membrane protein p65, GRASP-65, p-65, p65-P
WNK1	ENSP00000341292	p65, WNK1, HSN2, serine/threonine protein kinase WNK1, kinase-deficient protein, PRKWNK1, Kdp, p-65, WNK-1, p65-P, WNK lysine deficient protein kinase 1, pSK
SYT1	ENSP00000261205	SYT, p65, synaptotagmins, synaptotagmin I, Synaptotagmin-I, synaptotagmin-1, Syt1, synaptotagmin 1, Syt 1, p-65, p65-P, Synaptotagmin1, Syt-1
APOB	ENSP00000233242	apo B, apolipoprotein B, ApoB, apo-B, apoB-100, apolipoprotein B100, apolipoprotein B-100, apoB-48, apoB48, apo B48, apo B-100, apolipoprotein-B, apo-B-48, Apo-B-100, apo-B100, apo B-48, apo-B48, apoB100, apo B100, apolipo-protein B100, apolipoprotein B-100, ApolipoproteinB 100, apoB 100, apolipoprotein B 100, apo B 100, apolipoprotein-B 100, apolipoprotein-B-100, apo-lipoprotein B-100
PSMC6	ENSP00000401802	p44, p42, PSMC6, PSMC6P, p 44, proteasome subunit p42, p-44

CAV1	ENSP00000339191	caveolin-1, Cav-1, VIP21, CaV1, CGL3, caveolin 1, caveolin1, Pph3, AF125348, caveolin- 1, cav- 1, caveolin -1
PLAUR	ENSP00000339328	uPAR, PLAUR, u-PAR, urokinase-type plasminogen activator receptor, CD87, uPA-R, MO3, Urokinase type plasminogen activator receptor, urokinase plasminogen activator surface receptor, u-PA-R, urokinase-type plasminogen activator receptor, plasminogen activator, urokinase receptor
CCN2	ENSP00000356954	CTGF, CCN2, connective tissue growth factor, IGFBP-8, CCN-2, connective-tissue growth factor, connective-tissue growth-factor, C onnective tissue growth factor, C TGF, CCN family member 2
N	ENSP00000277541	Notch1, Notch, Notch-1, Notch 1, TAN-1, Tan1, HHN1, HN-1, Notch -1, HN1, 3 NBN, Notch homolog 1, translocation-associated, neurogenic locus notch homolog protein 1
ABCB1	ENSP00000478255	MDR1, P-gp, ATP-binding cassette sub-family B member 1, ATP-binding cassette subfamily B member 1, ABCB1, MDR-1, multidrug resistance protein 1, P-glycoprotein 1, PGY1, gp170, MDR1 P, multi-drug resistance protein-1, pgp, mdr 1, multidrug-resistance protein 1, MDR1-P, multidrug resistance protein-1, MDR-1 P, MDR- 1, MDR1p, multi drug resistance protein 1, ATP-binding cassette, subfamily B, member 1, ATP-binding cassette, sub-family B, member 1, ATP-binding cassette sub-family B member -1, ATP-binding cassette, sub-family B (MDR/TAP), member 1, MDR1 human, multi-drug resistance protein 1, ATP binding cassette sub-family B member 1, CICs, CD243, ATP-binding cassette, subfamily B (MDR/TAP), member 1, ATP binding cassette subfamily B member 1, ATP-binding cassette subfamily B, P-glycoprotein-1, PGY-1, ABCB1 p, GP-170, hMDR1, hABCB1, ATP-Binding Cassette sub-family B, ATP-bindingcassette sub-family B member 1, Ab-cb-1, ABC-20, multidrug-resistance-protein-1
CREB1	ENSP00000387699	CREB, Creb-1, CREB1, cyclic AMP responsive element-binding protein-1, cyclic AMP-responsive element binding protein-1, cAMP-responsive element-binding protein 1, cyclic AMP-responsive element binding protein 1, cAMP-responsive element binding protein 1, cAMP responsive element binding protein 1, cAMP responsive element-binding protein1, cAMP responsive element binding protein-1, cyclic AMP responsive element binding protein 1, cAMP responsive element-binding protein 1, cyclic-AMP responsive element binding protein 1

TLR4	ENSP00000363089	TLR4, toll-like receptor-4, TLR-4, Toll-like receptor 4, hTLR4, hToll, TLR 4, TOLL, Toll Like Receptor-4, toll like receptor 4, Toll-like-receptor 4, toll like receptors, Tolllike receptor 4, Tlr, Toll-like receptor4, toll- like receptors, TLR- 4, toll- like receptor4, Toll like receptor4, Toll-Like-Receptors, Toll-Like-Receptor-4, Toll- like receptor 4
AKR1B1	ENSP00000285930	AR, adr, ALR2, aldose reductase, AKR1B1, EC 1.1.1.21, aldehyde reductase, aldo-keto reductases, aldoketoreductases, 2 in E, 2 PDL, aldose-reductase, 3 GHR, aldo-keto reductase family 1, member B1, aldo-keto reductase family 1 member B1, 4 PRR, 2 ACs, 3 GHS, 2 PDX, aldoketo reductases, 4 IGs, 2 PDN, 2 PDB, ALDR1
GP1B	ENSP00000380281	GP1B, FEG-1, MER, GPCR-Br, GPCR -Br, CMKRL2, LyGPR, lymphocyte derived G-protein-coupled receptor, Membrane estrogen receptor, LERGU, G-protein coupled receptor 30, LERGU-2, G protein-coupled receptor 30, G-protein-coupled receptor 30, G protein-coupled estrogen receptor, GPER, G-protein-coupled receptor-30, G protein-coupled estrogen receptor 1, G-protein-coupled estrogen receptor, GPER-1, GPER1, GPR 30, G-protein-coupled estrogen receptor 1, G-protein coupled estrogen receptor, G protein coupled estrogen receptor, G protein-coupled receptor-30, G-protein-coupled estrogen receptor-1, G protein-coupled estrogen receptor-1, G protein coupled receptor 30, GPER 1, G-protein coupled estrogen receptor 1
IL10	ENSP00000412237	TGIF, IL-10, interleukin-10, IL10, Interleukin 10, hIL-10, interleukin10, cytokine synthesis inhibitory factor, CSIF, hIL10, IL 10, interleukin- 10, IL- 10, IL-10 A, h-IL10, Interleukin -10, interleukin--10, IL10 A, IL10A, h-IL-10
CXCR4	ENSP00000386884	CXCR-4, CXCR4, hFB22, LESTR, Fusin, chemokine receptor 4, LCR1, leukocyte-derived seven-transmembrane domain receptor, HM89, D2S201E, LAP3, LCR 1, CD184, C-X-C chemokine receptor type-4, NPY-R, CXCR 4, L-CR1, C-X-C chemokine receptor type 4, chemokine (C-X-C motif) receptor 4, C-X-C motif chemokine receptor 4, LAP 3, chemokine receptor-4, chemokine (CXC motif) receptor 4, CXC chemokine receptor type 4, CXC motif chemokine receptor 4, CHEMOKINE, C-X-C-motif chemokine receptor 4, hCXCR4, C-X-C motif chemokine receptors, C-X-C motif chemokine receptor-4

NTRK2	ENSP00000277120	TrkB, NTRK2, neurotrophic tyrosine kinase receptor type 2, TRK-B, TRK-B tyrosine kinase, TrkB tyrosine kinase, tropomyosin-related kinase B, gp145trkB, Trk B, tropomyosin related kinase B, neurotrophic tyrosine kinase, receptor, type 2, neurotrophic receptor tyrosine kinase 2, NTRK-2, neurotrophic tyrosine kinase receptor type2, tropomyosin-related kinase-B
NOS2	ENSP00000327251	iNOS, NOS2, NOS2A, inducible NO synthase, hep-NOS, nitric oxide synthase-2, nitric oxide synthase 2, nitric oxide synthase 2A, hepatocyte NOS, NOS-2, nitric oxide-synthase-2, inducible NO-synthase, 4 NOS, nitric oxide synthase2, EC 1.14.13.39, nitric oxide synthase-2, i-NOS, hNOS2, Nitric-Oxide Synthase 2, NOS type II, NOS 2
PARP1	ENSP00000355759	PARP, Adprt, poly(ADP-Ribose) polymerases, PARP-1, ADP-ribosyltransferase, PARP1, Poly(ADP-ribose) polymerase-1, poly(ADP-ribose) polymerase 1, poly (ADP-ribose) polymerase-1, poly (ADP ribose) polymerase-1, ADP-ribosyl transferase, EC 2.4.2.30, poly(ADP-ribose)polymerase-1, poly (ADP-ribose) polymerase 1, poly(ADP-ribose)polymerase 1, poly (ADP-ribose) polymerases, ADP ribosyltransferase, ADPRT1, poly (ADP ribose) polymerases, hPARP-1, poly-(ADP-ribose) polymerase 1, ADP ribosyl transferase, poly (ADP ribose) polymerase 1, poly [ADP-ribose] polymerase 1, PARP 1, poly(ADP ribose) polymerase-1, ARTD1, ARTD-1, poly(ADP-ribose)polymerase1, Poly (ADP-ribose) polymerase1, poly-[ADP-ribose] polymerase-1, Poly-(ADP-ribose)-polymerase1, poly[ADP-ribose] polymerase-1, ZINC fingers, Poly (ADPRibose) Polymerase-1, Poly-(ADP-Ribose) Polymerase-1, Poly[ADP-ribose] polymerase 1, poly(ADP-ribose)-polymerase 1, Poly(ADP-ribose)polymerases, poly-(ADP-ribose)-polymerase 1, Poly (ADP-ribose) polymerase- 1, poly(ADP ribose) polymerase 1
CD40LG	ENSP00000359663	TNF, CD40 ligand, CD40L, tumor-necrosis factor, TNF-related activation protein, HIGM1, gp39, CD154, CD40LG, CD40-ligand, hCD40L, tumor necrosis-factor, tumor-necrosis-factor, tumor necrosis factor superfamily, CD40-L, tumor-necrosis factor superfamily, TNFSF5, Tumor Necrosis Factor, CD 40L, T cell antigen gp39, CD-40 ligand, CD 154, CD 40 ligand, tumor necrosis factor super-family, tumor necrosis factor-superfamily, CD 40 L, tumor necrosis factor super family, CD40 L

IL4	ENSP00000231449	IL-4, interleukin-4, interleukin 4, IL 4, IL4, B-cell stimulatory factor 1, hIL-4, BSF-1, 2 in T, hIL4, interleukin4, IL-4p, IL -4, H IL4, IL- 4
CRP	ENSP00000255030	C-reactive protein, Ptx-1, PTX1, CRP, C reactive protein, short pentraxins, hPTX1, C-reactive-protein, C-RP, C-reactive protein, pentraxin related, C- reactive protein, C - reactive protein, C--reactive protein, Creactive protein, CR P
PPARA	ENSP00000385523	PPARalpha, peroxisome proliferator-activated receptor alpha, PPAR alpha, PPAR-alpha, PPAR, peroxisome-proliferator-activated receptor alpha, peroxisome proliferator activated receptor alpha, Ppara, hPPAR, peroxisome proliferator-activated receptor-alpha, peroxisome-proliferator-activated receptor-alpha, Nr1c1, peroxisome proliferator activated receptor-alpha, Peroxisome proliferator--activated receptor alpha, PPAR- alpha, peroxisome-proliferator-activated receptor-a, peroxisome-proliferator-activated-receptor-alpha, peroxisome proliferative activated receptor, alpha, 4 BCR, PPAR-a, PPAR A, NR1 C1
GCG	ENSP00000387662	GLP-1, glucagon-like peptide 1, GLP-2, glp1, glucagon, Glucagon-like peptide-1, preproglucagon, glucagon-like peptide 2, Glucagon-like peptide-2, Gcg, Glucagon-like-peptide-1, Glucagonlike peptide-1, hGLP-1, Glucagon like peptide 1, glucagon-like peptide-1, hGLP-2, glucagon like peptide-2, glucagon-like-peptide 1, glucagon like peptide-1, GLP2, glucagonlike peptide 1, GRPP, glucagon- like peptide- 1, GLP- 1, Glucagon-likepeptide1, Glucagon like-peptide-1, glucagon like peptide -1, glucagon-like peptide- 1, glucagon-like peptide -1, GLP 1, pre-proglucagon, Glucagon like peptide 2, GLP -1, prepro-glucagon, glucagon-likepeptide-2

GSTM1	ENSP00000311469	GSTM1, GST-1, GST1, GSTM1-1, mu1, glutathione S-transferase M1, glutathione-S-transferase M1, GTH4, GST M1, EC 2.5.1.18, GSTM 1, glutathione S-transferase mu 1, glutathione S-transferase mu-1, GSTM-1, glutathione-S-transferase Mu1, glutathione S-transferase M 1, Glutathione S-transferase mu1, GST-M1, glutathione-S-transferase mu 1, glutathione S-transferase -M1, glutathione-S-transferase mu 1, glutathione- S-transferase M1, glutathione S-transferase-M1, glutathione S transferase M1, glutathione Stransferase M1, hGSTM1, Glutathione-S-transferaseM1, glutathione S- transferase M1, Mu-1, Glutathione -S -transferase M1, 1xWk, Mu 1, Glutathione S transferase mu 1, Glutathione-S Transferase M1
MPO	ENSP00000225275	myeloperoxidase, MPO, myelo-peroxidase, Myelo per oxidase
ZHX2	ENSP00000314709	Raf, ZHX2, Afr1, Zinc fingers and homeoboxes 2, ZHX-2, zinc fingers and homeoboxes protein 2, zinc-fingers and homeoboxes 2
SPP1	ENSP00000378517	Osteopontin, SPP1, Opn, urinary stone protein, Eta-1, SPP-1, Bspl, secreted phosphoprotein 1, sibling family, eta1, bone sialoprotein-1, Secreted phosphoprotein-1, uropontin, bone sialoprotein I, hSPP1, early T-lymphocyte activation-1, bone sialoprotein 1, early T-lymphocyte activation 1
MTTP	ENSP00000427679	microsomal triglyceride transfer protein, ABL, microsomal triglyceride-transfer protein, Mttp, microsomal triglyceride transfer protein large subunit, microsomal triglyceride-transfer-protein, MT-TP, mtp, Mt-P
AREG	ENSP00000379097	AR, Amphiregulin, schwannoma-derived growth factor, AREG, SDGF
MMP3	ENSP00000299855	Str1, MMP3, stromelysin-1, MMP-3, STMY1, matrix metalloproteinase-3, SL1, STMY, SL-1, stromelysin 1, matrix metalloproteinase 3, matrix metalloprotein-ase-3, SI 1, matrix metallo-proteinase-3, matrix-metalloproteinase-3, Matrix metalloproteinase3, stromelysin- 1, matrixmetalloproteinase-3, matrix metallopeptidase 3, matrix metallopeptidase-3, MMP 3, MMP- 3

HMGB1	ENSP00000345347	HMG-1, HMGB1, High-mobility group box 1, high-mobility-group box 1, high-mobility group box-1, HMG1, high mobility group protein 1, high mobility group box 1, amphoterin, SBP-1, HMGB 1, HMGB-1, high mobility group protein-1, High-mobility group protein 1, high mobility group protein B1, high mobility group box-1, high mobility group box1, high-mobility group box1, high-mobility group-box 1, high mobility group-box 1, High-mobility group protein B1, high-mobility-group-box-1, High-Mobility-Group-Protein B1, high mobility group box -1, high-mobility group box 1, SBP1, high-mobility group-box-1, HMGB -1, High Mobility Group Protein-B1
CYCS	ENSP00000307786	cytochrome c, CYCS, cyc, cytochrome c, somatic, cytochrome-c, cytochromec
ABCG2	ENSP00000237612	ABCG2, breast cancer resistance protein, BCRP, ABCP, MXR1, mitoxantrone resistance-associated protein, Bcrp1, urate exporter, MXR, ATP-binding cassette, subfamily G, ABC-P, ABCG-2, breast cancer-resistance protein, MXR-1, ATP-binding cassette, subfamily G, member 2, ATP-binding cassette, subfamily G (WHITE), member 2, BCRP-1, hABCG2, ATP-binding cassette sub-family G member 2, ATP-binding cassette subfamily G member 2, CD338, ATP binding cassette subfamily G member 2, ATP-binding cassette subfamily G, ATP-binding cassette, sub-family G (WHITE), member 2, ABCG 2, ATP-binding cassette sub-family G, ATP binding cassette sub-family G member 2, breast-cancer resistance protein, ATP binding cassette subfamily G member 2 (Junior blood group
COMT	ENSP00000354511	COMT, Catechol-O-methyltransferase, catechol O-methyltransferase, catechol-O-methyl transferase, catechol-O-methyl-transferase, EC 2.1.1.6, catechol O-methyl transferase, catechol-O-methyl- transferase, catechol- O-methyltransferase, Catechol- O -methyltransferase, catechol-Omethyltransferase, Catechol-O methyltransferase

CXCL12	ENSP00000379140	sDF1, stromal cell-derived factor 1, SDF-1, CXCL12, SCYB12, sdf-1a, stromal cell-derived factor-1, sdf1a, stromal cell derived factor 1, stromal-cell-derived factor 1, stromal cell derived factor-1, chemokine ligand 12, SDF -1, SDF1B, chemokine (C-X-C motif) ligand 12, Stromal-cell derived factor-1, stromal-cell-derived factor-1, CXCL1-2, chemokine ligand-12, CXCL-12, Stromal-cell derived factor 1, CXCL 12, stromal cell-derived factor 1, C-X-C motif chemokine ligand 12, C-X-C motif chemokine 12, CXC motif chemokine 12, SDF1 A, Stromal cell-derived factor1, C-X-C motif chemokine-12, CXC-motif-chemokine 12, stromal cell -derived factor-1, intercrine reduced in hepatomas, pre-B-cell growth-stimulating factor
MAPK8	ENSP00000378974	Jnk1, Jun N-terminal kinase, MAPK8, SAPK1, jun-N-terminal kinase, JNK-1, c-Jun N-terminal kinase 1, c-Jun-N-terminal kinase 1, c-Jun N-terminal kinase-1, jun N terminal kinase, JNK 1, mitogen-activated protein kinase 8, c-Jun N-terminal Kinase1, Jnk, MAPK 8, c-Jun-N-terminal kinase-1, Jun-N terminal kinase
DPP4	ENSP00000353731	dipeptidyl peptidase IV, DPP-IV, DPPIV, CD26, DPP4, CD 26, DPP IV, ADCP-2, ADAbp, ADCP2, dipeptidylpeptidase IV, dipeptidyl-peptidase IV, EC 3.4.14.5, 2 on C, dipeptidyl peptidase 4, T-cell activation antigen CD26, hCD26, Dipeptidyl peptidase-4, 2 OAG, dipeptidylpeptidase 4, Dipeptidyl peptidase-IV, dipeptidylpeptidase-4, DPP-4, dipeptidylpeptidase-IV, dipeptidyl-peptidase 4, Tp103, hDPP4, dipeptidyl-peptidase-4, DPP 4, 2 OLE, dipeptidyl peptidase4, Dipeptidyl-peptidase-IV, dipeptidyl peptidase- 4, adenosine deaminase complexing protein 2, 3 CCC
NQO2	ENSP00000369822	NQO2, hNQO2, NRH:quinone oxidoreductase 2, NRH:quinone oxidoreductase2, quinone reductase 2, NRH: quinone oxidoreductase2, 3 NHL, QR2, NRH: quinone oxidoreductase 2, Quinone Reductase-2, NRH:quinoneoxidoreductase-2
CYP1B1	ENSP00000478561	CYP1B1, cytochrome P450 1B1, GLC3A, cytochrome P4501B1, cytochrome P450 family 1, EC 1.14.14.1, cytochrome P450-1B1, cytochrome P-450 1B1, cytochrome P 450 1B1, CYP 1B1, CP1B, U56438, P4501B1, Cytochrome P450, subfamily I, CYP1B1, hCYP1B1, cytochrome P450, family 1, subfamily B, polypeptide 1, P450 1B1, CYP1B1 p, cytochrome P450 family 1 subfamily B member 1

BACE1	ENSP00000318585	<p>Asp 2, memapsin 2, BACE, beta-site APP-cleaving enzyme, BACE1, beta-site APP cleaving enzyme, beta-site APP cleaving enzyme 1, BACE-1, 3 in 3, Asp2, beta-site APP-cleaving enzyme 1, 3 in 4, 2 of 0, beta-site amyloid precursor protein-cleaving enzyme 1, beta-secretase-1, 3 in D, Asp-2, memapsin2, hBACE1, beta-site amyloid precursor protein-cleaving enzyme-1, Beta-site amyloid precursor protein cleaving enzyme 1, beta-secretase 1, beta-site-APP-cleaving enzyme-1, BACE 1, Memapsin-2, beta-site APP cleaving enzyme-1, EC 3.4.23.46, beta-site amyloid precursor protein cleaving enzyme-1, 4 dpf, 2 - q11, beta site APP cleaving enzyme 1, beta site amyloid precursor protein cleaving enzyme 1, 3 CIC, 2QP8, 2FDP, 4B70, 2WEZ, 3R1G, Beta Site Amyloid Precursor Protein Cleaving Enzyme-1, Beta-site amyloid-precursor-protein cleaving enzyme 1, 1FKN, Beta secretase 1, 1W51, Beta site APP Cleaving Enzyme, Beta-site amyloid precursor protein cleaving enzyme1</p>
ABL1	ENSP00000361423	<p>c-Abl, v-Abl, Abl, BCR/ABL, p150, ABL1, protooncogene c-abl, c- abl, proto-oncogene c-abl, BCR/ ABL, Abl family tyrosine kinases, Abl-1, Abelson murine leukemia viral oncogene homolog 1, 1OPL, v-Abl Abelson murine leukemia viral oncogene homolog 1, 2-abl, c-abl oncogene 1, receptor tyrosine kinase, c-abl oncogene 1, non-receptor tyrosine kinase, Abelson tyrosine-protein kinase 1, c-ABL1, C-abl oncogene 1, nonreceptor tyrosine kinase, cAbl, ABL proto-oncogene 1, nonreceptor tyrosine kinase, ABL 1, tyrosine protein kinase ABL1, 1BBz, ABL proto-oncogene 1, non-receptor tyrosine kinase, tyrosine-protein kinase ABL1, Abelson murine leukemia viral oncogene homolog1, BCR / ABL</p>
BRCA2	ENSP00000369497	<p>BRCA2, FANCD, BRCC2, BRCA-2, U43746, breast cancer 2, early onset, XRCC11, BRCA 2, BRCA2 p, GLM-3, breast cancer type 2 susceptibility protein, Breast cancer 2, BRCA2-P</p>

TNFSF11	ENSP00000381775	ODF, OPGL, TRANCE, RANKL, CD254, Tnfsf11, osteoclast differentiation factor, receptor activator of nuclear factor-kappaB ligand, osteoprotegerin-ligand, tumor necrosis factor superfamily, Receptor activator of nuclear factor-kappa B ligand, osteoprotegerin ligand, TNF-related activation-induced cytokine, RANK-L, receptor activator of nuclear factor kappaB ligand, tumor-necrosis factor superfamily, OPG-L, sODF, AB037599, receptor-activator of nuclear factor-kappaB ligand, receptor activator of nuclear factor kappa B ligand, receptor activator of nuclear factor kappa-B ligand, tumor necrosis factor super-family, tumor necrosis factor-superfamily, receptor-activator of nuclear-factor kappa B ligand, receptor activator of nuclear factor-kappa-B ligand, Receptor Activator of Nuclear Factor Kappa- B Ligand, tumor necrosis factor super family, Receptor-Activator of Nuclear Factor-Kappa B Ligand, RANK L, receptor activator of nuclear factor kappa-B- ligand
SOD1	ENSP00000270142	SOD1, SOD-1, Superoxide dismutase 1, superoxide dismutase-1, EC 1.15.1.1, hSOD1, IPO-A, Superoxide dismutase 1, soluble, SOD 1, h-SOD1, hSOD-1, Als1p, superoxide dismutase1, 1 U x L, superoxide dismutase [Cu-Zn, superoxide dismutase -1, SOD1 p, super-oxide dismutase 1, superoxide-dismutase-1
IL18	ENSP00000280357	IL-18, IL18, IGIF, interleukin-18, Interleukin 18, interferon-gamma-inducing factor, interferon-gamma-inducing-factor, interferon gamma inducing factor, interferon gamma-inducing factor, hIL-18, IL 18, IL-1F4, hIL18
NLRP3	ENSP00000337383	AVP, cryopyrin, CIAS1, NALP3, Nlrp3, PYPAF1, NLR family, pyrin domain containing-3, NLR family, pyrin domain containing 3, NLR family pyrin domain containing 3, NACHT, LRR and PYD domains-containing protein 3, NLRP3 p, CIAS-1, NALP-3, PYPAF-1, Fcas, nucleotide-binding oligomerization domain, leucine-rich repeat and pyrin domain containing 3, NLR family pyrin domain-containing 3, NLR family, pyrin domain-containing 3, NLR family pyrin domain containing-3, NLRP-3, nucleotide-binding oligomerization domain-, leucine-rich repeat- and pyrin domain-containing 3, NLR Family-Pyrin Domain-Containing 3, NLRP 3, nucleotide-binding oligomerization domain-, leucine-rich repeat and pyrin domain-containing 3

YBX1	ENSP00000361626	YB-1, dbpB, CBFA, YB1, Ybx1, U11/U12 di-snRNP, Y box-binding protein-1, CBF-A, Y-box binding protein-1, DNA-binding protein B, Y-box binding proteins, Y-box-binding protein-1, Y box binding protein 1, Y-box binding protein 1, Y-box-binding protein 1, Y box-binding protein 1, Hyb1, Y-box transcription factor, Y-box binding protein-1, Y box binding protein-1, BP-8
GDNF	ENSP00000409007	GDNF, glial cell line-derived neurotrophic factor, glial-cell-line-derived neurotrophic factor, GDNF family ligands, ATF1, ATF2, ATF-2, glial-derived neurotrophic factor, ATF-1, glial cell-line-derived neurotrophic factor, glial cell line derived neurotrophic factor, ATF 1, glial cell-derived neurotrophic factor, Glial cell-line derived neurotrophic factor, Atf, glial cell derived neurotrophic factor, glial cell line--derived neurotrophic factor, 3FUB, Glial derived neurotrophic factor, Glial-cell line-Derived Neurotrophic Factor, glial-cell-line derived neurotrophic factor, Glialcell line-derived neurotrophic factor, Glial-cell line derived neurotrophic factor, glial-cell derived neurotrophic factor, glial cell line -derived neurotrophic factor
CYP2E1	ENSP00000440689	CYP2E1, CYP2E, cytochrome P450-2E1, Cyp2e-1, cytochrome P450 2E1, P450j, cytochrome P-4502E1, Cytochrome P4502E1, CYP 2E1, cytochrome P-450 2E1, hCYP 2E1, CYP11E1, cytochrome P 4502E1, cytochrome P450, family 2, subfamily E, polypeptide 1, cytochrome P450 family 2 subfamily E member 1, cytochrome P-450j, cytochrome P45 02E1
BRAF	ENSP00000288602	p94, B-Raf, BRAF, RAF family, serine/threonine-protein kinase BRAF, B-raf-1, v-raf murine sarcoma viral oncogene homolog B1, proto-oncogene BRAF, v-raf murine sarcoma viral oncogene homolog B, proto-oncogene B-raf, B RA F, BRAF1, BRAF-1, serine/threonine-protein kinase B-raf, BRAF human, protooncogene BRAF, B-Raf proto-oncogene, serine/threonine kinase, vRAF murine sarcoma viral oncogene homolog B1, serine/threonine protein kinase B-raf
PRL	ENSP00000302150	PRL, prolactin, pro-lactin, PR I, Prl human, growth hormone family

SP1	ENSP00000329357	Sp1, transcription factor Sp-1, transcription factor Sp1, Sp-1, specificity protein 1, Sp 1, Sp1 transcription factor, specificity protein-1, SP1-transcription-factor, transcription factor Sp 1, SP-1 transcription factor, SP 1 transcription factor, HSP1, Sp transcription factors, Sp-transcription factors, transcription-factor Sp1
ISYNA1	ENSP00000337746	iNOS, myo-inositol 1-phosphate synthase, ISYNA1, IPS-1, EC 5.5.1.4, INO1, IPS1, i-NOS, Inositol-3-phosphate synthase 1
ADIPOQ	ENSP00000389814	apM1, GBP28, apM-1, adiponectin, Acrp30, Adipoq, 30-kDa adipocyte complement-related protein, gelatin-binding protein, AdiPose Most abundant Gene transcript 1, ADPN, adipose most abundant gene transcript-1, Acdc, HGNC:13633, adiponectin, C1Q and collagen domain containing, Acrp 30
SERPINE1	ENSP00000223095	PAI-1, Plasminogen activator inhibitor-1, SERPINE1, PAI1, plasminogen activator inhibitor 1, pAI, plasminogen-activator-inhibitor-1, plasminogen activator inhibitor, type I, plasminogen-activator inhibitor 1, PLANH1, Endothelial plasminogen activator inhibitor, plasminogen-activator inhibitor-1, PA-I, plasminogen activator inhibitor -1, serpin E1, serpine 1, PA I-1, PA I, SERPINE-1, hPAI-1, PAI 1, plasminogen activator-inhibitor 1, serpin family E member 1, plasminogen activator-inhibitor-1, serpin peptidase inhibitor, clade E, member 1, PAI -1, plasminogen activator inhibitor - 1, PAI- 1
GDF15	ENSP00000252809	MIC-1, macrophage inhibitory cytokine-1, Growth differentiation factor 15, GDF15, GDF-15, PLAB, Growth/differentiation factor 15, Growth differentiation factor-15, macrophage inhibitory cytokine 1, placental bone morphogenetic protein, MIC1, placental TGF-beta, Growth/differentiation factor-15, NAG-1, macrophage-inhibitory cytokine-1, Nonsteroidal anti-inflammatory drug-activated gene-1, prostate differentiation factor, nonsteroidal antiinflammatory drug-activated gene-1, growth-differentiation factor-15, non-steroidal anti-inflammatory drug-activated gene-1, growth-differentiation factor 15, nonsteroidal anti-inflammatory drug-activated gene 1, non-steroidal anti-inflammatory drug activated gene-1, NSAID-activated gene 1 protein, PTGFB, GDF 15, Growth differentiation factor- 15

TIMP1	ENSP00000218388	Epo, TIMP1, TIMP, TIMP-1, fibroblast collagenase inhibitor, erythroid-potentiating activity, tissue inhibitor of metalloproteinases 1, tissue inhibitor of metalloproteinase-1, Tissue inhibitor of metalloproteinases-1, TIMP- 1, hTIMP-1, TIMP 1, tissue inhibitor of metalloproteinase 1, tissue-inhibitor of metalloproteinase-1, metalloproteinase inhibitor 1, metalloproteinase inhibitor-1, TIMP metalloproteinase inhibitor 1, TIMP metalloproteinase inhibitor-1, hci, tissue inhibitor of metalloproteinases1, TIMP -1, Erythroid potentiating activity
FN1	ENSP00000346839	fibronectin, FN1, Fn-1, cold insoluble globulin, EDB, fibronectin 1, 2-EC3, MSF, cold-insoluble globulin, ED-B, clg, C-Ig, fibronectin-1, migration stimulating factor, fibronectin1, Migration-stimulating factor
NF1	ENSP00000351015	HNf1, NF1, neurofibromin, NF-1, 1 NF1, Hnf-1, NF 1, Neurofibromin 1, VRNF, neuro-fibromin, 3 PEG, WSs, neurofibromin-1, NF1 human, Neurofibromin1
NR1I2	ENSP00000336528	SXR, PAR1, PXR, PAR-1, hPAR-2, pregnane X receptor, PAR2, steroid and xenobiotic receptor, orphan nuclear receptor PXR, NR1I2, PAR 2, PR r, PAR-2, Par 1, pregnane-X receptor, pregnane-X-receptor, hPar1, hPar2, nuclear receptor subfamily 1 group I member 2, pregnane X-receptor, NR 1I2
ABCA1	ENSP00000363868	ATP-binding cassette transporter 1, ABC1, ATP-binding cassette transporter-1, ABCA1, hABC1, ATP binding cassette transporter 1, cholesterol efflux regulatory protein, CERP, ATP-binding cassette, subfamily A, member 1, AbC-1, cholesterol-efflux regulatory protein, hABC-1, ATP-binding-cassette transporter 1, hABCA1, ABCA-1, ATP-binding cassette, sub-family A, member 1, ATP-binding cassette sub-family A member 1, ABC-A1, ABCA1p, ABCA1 p, ATP-binding cassette subfamily A member 1, ATP binding cassette subfamily A, ATP binding cassette subfamily A member 1, ATP-binding cassette subfamily A, ATP-binding cassette transporter1, ABCA 1, ATP-binding cassette sub-family a member1

SLC2A1	ENSP00000416293	GLUT1, GLUT, Glut-1, SLC2A1, DYT9, HepG2 glucose-transporter, HepG2 glucose transporter, DYT17, DYT18, Hep G2 glucose transporter, hGluT-1, GLUT 1, cse, solute carrier family 2 (facilitated glucose transporter), member 1, glut1DS, GLUT1-P, GLUT- 1, solute carrier family 2, member 1, CS-E, Hep-G2 glucose transporter, Solute carrier family 2 member 1, GLUT-1DS, Solute carrier family 2, facilitated glucose transporter member 1
MMP13	ENSP00000260302	collagenase-3, MMP13, CLG3, collagenase 3, MMP-13, matrix metalloproteinase-13, matrix metalloproteinase 13, hMMP-13, hMMP13, matrix metalloproteinase 13, matrixmetalloproteinase-13, Matrix metalloproteinase13, Matrix Metalloproteinase-13, MMP-1-3, 1XUC, 3WV1, matrix-metalloproteinase 13
ZNRD2	ENSP00000312318	p27, p2-7, p2 7, autoantigen P27
HP	ENSP00000348170	haptoglobin, hPR, haptoglobin-related protein, zonulin, Haptoglobin related protein, HP r, B_P
NGF	ENSP00000358525	NGF, nerve growth factor, NGFB, beta-NGF, nerve-growth-factor, betaNGF, beta-nerve growth factor, nerve-growth factor, nerve growth-factor, Beta nerve growth factor, NGF human, nerve growth fac- tor, beta-nerve-growth-factor
DCTN6	ENSP00000221114	p27, p2-7, p2 7, dynactin 6, DCTN6, Dynactin Subunit 6
SNRPE	ENSP00000400591	BRAF, B-Raf, small nuclear ribonucleoprotein E, SNRPE, SmE, Sm-E, snRNP E, B RA F, small nuclear ribonucleoprotein polypeptide E
TMED7	ENSP00000405926	p27, p2-7, p2 7, TMED7
PSMD9	ENSP00000440485	p27, p2-7, PSMD9, p2 7, Rpn4, proteasome 26S subunit, non-ATPase 9
IFI27	ENSP00000483430	p27, ISG12, IFI27, p2-7, p2 7, Interferon alpha-inducible protein 27, interferon-alpha-inducible protein 27, ISG12A, Interferon-alpha-inducible-protein 27, interferon-alpha inducible protein 27
ETS1	ENSP00000376436	Ets1, Ets-1, p54, EWSR2, cETS1, c-ets-1, ETS 1, ETS-protein, c-ets 1, ETS protein, c-Ets1, v-ets avian erythroblastosis virus E26 oncogene homolog 1, ETS proto-oncogene 1, transcription factor, avian erythroblastosis virus E26 oncogene homolog 1, v-ets avian erythroblastosis virus E26 oncogene homolog1
RNASE3	ENSP00000302324	Raf-1, Raf1, eosinophil cationic protein, 2 kb 5, RNS3, ribonuclease 3, RNase 3, Raf- 1, RNASE3, eCp, Eosinophil-cationic protein

MET	ENSP00000317272	c-Met, MET proto-oncogene, HGFR, met protooncogene, hepatocyte growth factor receptor, meT, MET proto-oncogene, receptor tyrosine kinase, proto-oncogene c-met, hepatocyte growth-factor receptor, scatter factor receptor, HGF/SF receptor, protooncogene c-Met, cMET, HGF-R, c- MET, tyrosine-protein kinase Met, tyrosine-protein kinase-met, 4 DEG
SHBG	ENSP00000369816	SHBG, sex hormone binding globulin, androgen-binding protein, TeBG, Sex hormone-binding globulin, sex steroid-binding protein, sex-hormone binding globulin, androgen binding protein, sex hormone- binding globulin, sex steroid binding protein, sex-hormone-binding globulin, Sex Hormonebinding Globulin
ATM	ENSP00000278616	AT1, ATM, TEL1, ataxia-telangiectasia-mutated, ATDC, ataxia telangiectasia-mutated, AT-1, ataxia telangiectasia mutated, Hat1, ataxia-telangiectasia mutated, TEL1p, tel 1p, ATM serine/threonine kinase, AT 1, AT-C
CASP8	ENSP00000351273	caspase-8, 3H11, Caspase 8, CASP8, apoptotic cysteine protease, FLICE, Mch5, 4 PS1, death effector domain containing, FADD-homologous ICE/CED-3-like protease, CAP4, CASP-8, Mch-5, caspase- 8, Casp 8, Caspase8, CAS P8, FADD-like ICE, caspase-8, apoptosis-related cysteine peptidase
FASLG	ENSP00000356694	FasL, CD95 ligand, CD95L, TNFSF6, Fas-ligand, tumor-necrosis factor superfamily, CD95-ligand, tumor necrosis factor superfamily, FASLG, CD178, Fas-L, FAS ligand, Fas L, CD95-L, fasligand, Fas - ligand, tumor necrosis factor super-family, tumor necrosis factor-superfamily, Fas ligand (TNF superfamily, member 6, tumor necrosis factor super family, CD95Ligand, APT1LG1
NPC1L1	ENSP00000289547	NPC1L1, Niemann-Pick C1-Like protein 1, NPC1-like intracellular cholesterol transporter 1, hNPC1L1
EIF2AK3	ENSP00000307235	pancreatic eIF-2alpha kinase, PERK, WRS, EIF2AK3, eukaryotic translation initiation factor 2-alpha kinase 3, p-ERK, eukaryotic translation initiation factor-2alpha kinase 3, pancreatic eIF2alpha kinase, PRKR-like endoplasmic reticulum kinase, eukaryotic translation initiation factor 2alpha kinase 3, eukaryotic translation initiation factor 2 alpha kinase 3
GAST	ENSP00000331358	gastrin, GAS, pre-pro gastrin, preprogastrin, prepro-gastrin, pre-pro-gastrin, Pre-progastrin

SMAD3	ENSP00000332973	Smad3, Smad family, mothers against decapentaplegic homolog-3, Smad-3, SMAD, mothers against DPP homolog 3, Madh3, Smad 3, 1U7F, SMAD family member 3, Mothers against decapentaplegic homolog 3, mothers against decapentaplegic homolog3
COL11A2	ENSP00000363840	PARP, COL11A2, Col11a-2, HKE5, collagen, type XI, alpha 2, collagen alpha-2(XI) chain
ATF2	ENSP00000264110	ATF-2, ATF2, Activating transcription factor 2, TREB7, CRE-BP1, CREB-2, CREB2, cAMP response element-binding protein CRE-BP1, activating transcription factor-2, CREBP1, activating transcription factor2
NPM1	ENSP00000296930	NPM, nucleophosmin, Npm1, nucleophosmin 1, numatrin, nucleolar protein NO38, nucleolar phosphoprotein B23, nucleophosmin-1, nucleophosmin1, nucleophosmin (nucleolar phosphoprotein B23, numatrin, NP-M1, NPM-1
PCSK9	ENSP00000303208	FH3, HFH-3, NARC-1, proprotein convertase subtilisin/kexin type 9, Pcsk9, neural apoptosis-regulated convertase 1, PC9, Hfh3, neural apoptosis regulated convertase 1, HCHOLA3, proprotein convertase subtilisin/kexin-type 9, PC-9, PCSK9 p, Neural Apoptosis-Regulated Convertase1, NARC1, proprotein convertase subtilisin/kexin type-9, Pc 9, PCSK-9, FH-3, hPCSK9, pro-protein convertase subtilisin/kexin type 9, Proprotein convertase-subtilisin/kexin type 9, 3 BPs, proprotein convertase subtilisin/kexin type9, Proprotein convertase subtilisin / Kexin type 9, PCSK 9, proprotein-convertase-subtilisin/kexin type 9
HSP90AA1	ENSP00000335153	hsp90, LAP2, Hsp90a, hsp89, HSP90AA1, HSP-90, HSP89A, HSP 90, HSPCA, Hsp86, heat shock 90 kDa protein 1, alpha, hsp90N, 2 CCT, Hsp90 N, HSP90AA 1, heat shock protein HSP 90-alpha, HSPC1, LAP-2, 2c-CS, heat shock protein 90 alpha family class A member 1, 4 CWP, hHSP90
HSPB1	ENSP00000248553	small heat-shock proteins, hsp27, small heat shock proteins, HSPB1, HSP25, HSP-27, heat shock 27 kD protein 1, HSP 27, heat shock 27kDa protein, P04792, sHSP, heat shock 27-kDa protein, HSP-28, heat shock 27-kDa protein 1, heat shock 27 kDa protein 1, hHsp27, heat-shock 27-kDa protein 1, heat shock protein beta-1, Hsp-25, heat-shock protein beta-1, heat shock protein beta 1, HSP28, heat shock protein family B (small) member 1, Heat shock protein family B member 1, srp 27

FXN	ENSP00000366482	FRDA, frataxin, FXN, EC 1.16.3.1, CyaY, Friedreich ataxia protein, frataxin, mitochondrial
SREBF1	ENSP00000348069	SREBP-1a, SREBP1, SREBP-1, SREBP1c, SREBF1, SREBP-1c, sterol regulatory element-binding protein-1, Sterol regulatory element-binding protein 1, sterol regulatory element binding protein-1, Sterol Regulatory Element Binding Transcription Factor 1, SREBP1a, sterol regulatory element binding protein 1, sterol-regulatory-element-binding-protein-1, SREBF-1, sterol-regulatory element binding protein-1, SREBP-1a p, SREBP 1, SREBP1-c, sterol-regulatory-element-binding protein-1, sterol-regulatory-element-binding protein 1, sterol regulatory element-binding transcription factor 1, sterol regulatory element-binding protein1, sterol-regulatory element-binding transcription factor-1, sterol-regulatory element binding protein 1, sterol regulatory element-binding transcription factor-1, Sterol regulatory element binding protein1, sterol-regulatory element binding transcription factor-1, sterol regulatory element binding transcription factor1
VIP	ENSP00000356213	VIP, vasoactive intestinal peptide, PHM-27, prepro-VIP, Vasoactive-intestinal peptide, Vasoactive-intestinal-peptide, prepro VIP
CD40	ENSP00000361359	p50, CD40, Bp50, B-cell surface antigen CD40, CD40 molecule, hCD40, CDw40, P 5 0, CD40L receptor, tumor necrosis factor receptor superfamily member 5, TNFRSF5, CD-40, CD 40, B p50, HP 50
RPS6KA3	ENSP00000368884	RPS6KA3, RSK2, RSK, Ribosomal Protein S6 Kinase, 90 kDa, Polypeptide 3, Cls, MRX19, ISPK-1, Rsk-2, Ribosomal S6 kinase 2, insulin-stimulated protein kinase 1, HU-3, hRSK2, ribosomal S6 kinase-2, Hu3, U08316, p90RSK2, ribosomal protein S6 kinase A3, ribosomal protein S6 kinase alpha-3
SNAI1	ENSP00000244050	Snail, SnaH, SNAI1, SNAIL1, SNAI1P, Sna, snail-1, snai-1, zinc finger protein SNAI1, Snail family zinc finger 1, Snail 1, Snail family transcriptional repressor 1, Snail homolog 1

MDM2	ENSP00000258149	MDM2, HdmX, Hdm2, MDM-2, oncoprotein MDM2, hMDM2, MDM2 proto-oncogene, oncoprotein mdm-2, 2 MPS, p53-binding protein MDM2, MD M2, HDM-2, double-minute 2 protein, double minute-2 protein, double minute 2 protein, Mdm2 p53 binding protein homolog, MDM2 proto-oncogene, E3 ubiquitin protein ligase, E3 ubiquitin protein ligase MDM2, E3 ubiquitin-protein ligase Mdm2, MDM2-proto-oncogene, MDM 2, mdm-2 proto-oncogene
THBS1	ENSP00000260356	thrombospondin-1, TSP1, TSP-1, T-SP1, THBS1, thrombospondin 1, Thbs, HTSP1, THBS-1, hTSP-1, THBS 1, Thrombospondin1, Thrombo-Spondin 1
TLR2	ENSP00000260010	TLR2, Toll-like receptor 2, TLR-2, toll-like receptor-2, TIL4, hTLR2, TLR 2, T IL-4, Tlr, Toll-like-receptor 2, T IL4, toll like receptors, toll-like receptor -2, Toll-like receptor2, toll like receptor 2, T IL-4, Toll Like Receptor-2, toll- like receptors, TLR- 2, Toll like receptor- 2, Toll-like-receptor-2, Toll-Like-Receptors, Tolllike receptor 2
KCNH4	ENSP00000264661	Elk1, BEC2, Elk-1, hElk-1, KCNH4
CDK20	ENSP00000322343	c-Crk, p42, cell cycle-related kinase, CCRK, cell-cycle-related kinase, CDK20, Cyclin-dependent kinase 20
KCNH8	ENSP00000328813	Elk-1, Elk1, KCNH8, Elk3, hElk-1, Elk-3
CASP9	ENSP00000330237	caspase-9, Casp9, caspase 9, Apaf-3, casp-9, caspase9, caspase- 9, caspase -9
NUP43	ENSP00000342262	p42, Nup43
CDKL1	ENSP00000379176	p42, KKIALRE, Cdkl1, Cyclin-dependent kinase-like1, Cyclin-dependent kinase-like 1, CDKL-1, cyclin dependent kinase like 1
GPX1	ENSP00000407375	glutathione peroxidase 1, Selenoprotein S, cellular glutathione peroxidase, Gpx1, glutathione peroxidase-1, GPX-1, GSHPx-1, hGPX1, glutathione peroxidase1, selenoprotein-S, GP x 1, Gpx 1, glutathione peroxidase 1, Glutathione Peroxidase -1, GPX -1, GSHPX1
PRKCA	ENSP00000408695	PKC alpha, PKC-alpha, PRKCA, PKCalpha, PRKACA, protein kinase C-alpha, protein kinase Calpha, protein kinase C alpha, Pkca, protein kinase C, alpha, PKC-a
ALB	ENSP00000295897	serum albumin, Alb, albumin, Hsa, Pro2619, 1-HK2
HSPB2	ENSP00000302476	hsp27, small heat shock proteins, HspB2, MKBP, small heat-shock proteins, HSP-27, HSP 27, sHSP, hHsp27
HSPB3	ENSP00000303394	small heat-shock proteins, hsp27, small heat shock proteins, HspB3, HspL27, HSP-27, protein-3, Protein 3, HSP 27, sHSP, hHsp27, protein3, Heat shock protein beta 3

GPX4	ENSP00000346103	snGPx, GPx4, glutathione peroxidase 4, phGPx, selenoprotein S, gpx-4, glutathione peroxidase-4, selenoprotein-S, 2 OBI, phospholipid hydroperoxidase, Gpx 4, MCSP
CDK4	ENSP00000257904	CDK4, Cdk-4, cyclin-dependent kinase 4, cyclin-dependent kinase-4, CDK 4, cyclin dependent kinase 4, cyclin-dependent kinase4, cyclin-dependent-kinase 4, cell division protein kinase 4, cyclin-dependent-kinase-4
RPS6KB1	ENSP00000225577	S6K, S6K1, p70s6k, p70 alpha, p70alpha, RPS6KB1, PS6K, p70 S6K, p70-S6K, p-S6K, ribosomal protein S6 kinase, 70 kDa, polypeptide 1, S6K-1, ribosomal protein S6 kinase, 70kDa, polypeptide 1, ribosomal protein S6 kinase beta 1, ribosomal protein S6 kinase beta-1, ribosomal protein S6 kinase B1, p-70S6K
ARL6IP5	ENSP00000273258	GTRAP3-18, Hp 2-2, JWA, HP2-2, AF070523, PRAF3, Arl6-IP5, Hp22, ARL6IP5
PHB2	ENSP00000441875	PHB2, Hp 2-2, repressor of estrogen receptor activity, prohibitin 2, HP2-2, hBAP, Bcap-37, Bcap37, Phb2p, bap, Hp22, Prohibitin-2
ANXA5	ENSP00000296511	annexin V, annexin A5, PP4, ANX5, Annexin-V, ENX2, endonexin II, placental anticoagulant protein I, annexins, ANXA5, Annexin 5, vascular anticoagulant-alpha, lipocortin V, anchorin CII, annexinV, annexin-A5, 1-AVH, RPRGL3, AnnexinA5, calphobindin I

MMP14	ENSP00000308208	MT1-MMP, MT-MMP, MMP-14, membrane-type 1 matrix-metalloproteinase, Membrane-type 1 matrix metalloproteinase, MMP14, membrane type-1 matrix metalloproteinase, MT-MMP-1, matrix metalloproteinase 14, membrane type matrix metalloproteinase-1, membrane-type 1-matrix metalloproteinase, membrane type 1-matrix metalloproteinase, membrane-type-1-matrix metalloproteinase, membrane-type-1 matrix metalloproteinase, membrane type 1 matrix metalloproteinase, membrane-type matrix metalloproteinase-1, MT1 MMP, membrane type-matrix metalloproteinase-1, matrix metalloproteinase 14, Membrane type 1 metalloprotease, matrix metalloproteinase-14, MT1 -MMP, MT-1 MMP, MT1MMP, MT1-MMP, membrane type-1 metalloprotease, membrane-type matrix metalloproteinase 1, membrane type matrix metalloproteinase 1, MMP 14, membrane type1 matrix metalloproteinase, matrix metallo-proteinase 14, MMP14 p, membrane type 1-metalloprotease, Membrane Type 1- Matrix Metalloproteinase, MTMMP
CHP1	ENSP00000335632	HP2-2, p24, CBLP, CHP1, Hp 2-2, calcineurin homologous protein, calcineurin-like EF hand protein 1, calcineurin B-like protein, calcineurin b homologous protein 1, P24P, Hp22, P2 4, CHP-1, calcineurin-like EF-hand protein 1, HP24
DYNC1H1	ENSP00000348965	cytoplasmic dynein heavy chain 1, DYNC1H1, DHC1a, HP2-2, Hp 2-2, DNCHC1, DNECL, cytoplasmic dynein 1 heavy chain 1, Hp22, dynein, cytoplasmic 1, heavy chain 1, Dynein Cytoplasmic 1 Heavy Chain 1, CMT2O
DNMT1	ENSP00000352516	DNMT1, DNA methyltransferase 1, DNA-methyltransferase 1, DNMT, DNA methyltransferase-1, DNA (cytosine-5)-methyltransferase 1, hDNMT1, DNA (cytosine-5)-methyltransferase 1, EC 2.1.1.37, Alm, dnmt-1, DNMT 1, DNA-methyltransferase-1, DNA methyltransferase1, DNA methyl transferase 1, DNA methyltransferase 1, DNA methyl-transferase-1, DNA-methyltransferase1, DNA (cytosine-5) methyltransferase 1, DNA-Methyl-Transferase 1

BCL2L11	ENSP00000376943	Bim, BimS, Bcl2l11, BimEL, Bcl-2-interacting mediator of cell death, BCL-2 interacting mediator of cell death, BimL, Bim-EL, BCL2-like 11, Bcl-2-like protein 11, BCL2-like11, Bcl-2 like 11, Bcl2-interacting mediator of cell death, bcl-2-like 11, Bcl-2 L11, bam, BCL2-L11, Bcl-2 like protein 11, BCL2 interacting mediator of cell death, Bcl2 l11
FOXO3	ENSP00000385824	FKHRL1, FKHL-1, FOXO3a, FoxO3, AF6q21, forkhead box O3, FOXO2, FKHL-1, Foxo3P, Forkhead Box Protein O3, hFOXO3, forkhead-box O3, forkhead box O 3, FOXO-3a
SOD2	ENSP00000446252	EC 1.15.1.1, MnSOD, SOD2, superoxide dismutase 2, superoxide dismutase-2, SOD-2, 2 ADP, IPO-B, Mn-SOD, 2 gDs, Superoxide dismutase2, super oxide dismutase-2, superoxide dismutase 2, mitochondrial, hSOD2, Mn SOD
PGF	ENSP00000451040	PIG-F, PlGF, placental growth factor, placenta growth factor, PlGF, VEGF family, PlGF-2, P-GF, VEGF-family, p-IGF, Pgf, PLGF2
TNFSF10	ENSP00000241261	Apo2L, tumor-necrosis factor superfamily, Tnfsf10, Apo-2L, TL2, TNF-related apoptosis-inducing ligand, Apo2 ligand, tumor necrosis factor superfamily, Apo-2 ligand, TNF-related apoptosis inducing ligand, Apo2-L, TNF-related apoptosis -inducing Ligand, TNF-related apoptosis-inducing-ligand, TNF Related Apoptosis Inducing Ligand, tumor necrosis factor super-family, tumor necrosis factor super family, tumor necrosis factor-superfamily, tumor necrosis factor superfamily, member 10, Apo 2 ligand, CD253, TNF-related apoptosis inducing-ligand, TNF-related apoptosisinducing ligand, TNF related apoptosis inducing-ligand, TL-2, tumor necrosis factor ligand superfamily member 10, TNF related apoptosis-inducing ligand, Apo-2-ligand, TNF-related-apoptosis-inducing-ligand
CCR7	ENSP00000246657	Evi-1, CCR7, EVI1, chemokine receptor 7, EBI 1, EBI1, EBI-1, CCR-7, Cmkbr7, MIP-3 beta receptor, C-C chemokine receptor type 7, C-C motif chemokine receptor 7, Chemokine (C-C motif) receptor 7, CD197, Chemokine receptor-7, EVI 1, C-C motif chemokine receptors, CC chemokine receptor type 7

VCAM1	ENSP00000294728	L1CAM, vascular cell adhesion molecule-1, VCAM1, VCAM-1, vascular cell adhesion molecule 1, L1-CAM, L1 CAM, CD106, CD 106, vascular cell-adhesion molecule 1, vascular cell-adhesion molecule-1, hL1CAM, vascular cell adhesion protein-1, Vascular cell adhesion protein 1, VCAM- 1, V-CAM-1, V-CAM1, VCAM 1
MAPK7	ENSP00000311005	PRKM7, Erk5, BMK1, extracellular signal-regulated kinase 5, extracellular-signal regulated kinase 5, mitogen activated protein kinase 7, MAPK7, extracellular signal-regulated kinase-5, ERK-5, extracellular signal regulated kinase 5, extracellular signal regulated kinase-5, Extracellular-signal-regulated kinase 5, extracellular-signal-regulated kinase-5, Mitogen-activated protein kinase 7, ERK 5, Extra-cellular signal regulated kinase-5
FGF13	ENSP00000322390	Fibroblast growth factor homologous factor 2, FGF2, FGF-2, Fgf13, FHF2, Fibroblast Growth Factor 13, hFGF2, FGF-13, FGF 2
MAPT	ENSP00000340820	Tau, MAPT, microtubule-associated protein tau, microtubule associated protein tau, MTBT1, Paired helical filament tau, paired helical filament-tau, MTBT2, microtubule-associated-protein-tau, Microtubule-associated protein-tau, microtubuleassociated protein tau, P10636
XIAP	ENSP00000360242	X-linked inhibitor of apoptosis protein, XIAP, X-linked inhibitor of apoptosis, hIAP, BIRC4, X-linked inhibitor-of-apoptosis protein, X-linked inhibitor-of-apoptosis, X-IAP, MiHA, Baculoviral IAP repeat-containing-4, baculoviral IAP repeat-containing protein-4, baculoviral IAP repeat-containing protein 4, X linked inhibitor-of-apoptosis protein, E3 ubiquitin-protein ligase XIAP
STAT1	ENSP00000354394	STAT-1, STAT1, ISGF3, ISGF-3, signal transducer and activator of transcription-1, signal transducer and activator of transcription 1, ISG F3, Stat 1, STAT1-P, signal transducer and activator of transcription1, STAT91
BECN1	ENSP00000355231	beclin 1, Beclin1, Beclin-1, Becn1, vps30, Atg6, Atg-6, beclin 1, autophagy related, becn-1, Beclin-1, Autophagy-related

BMP2	ENSP00000368104	BMP2, bone morphogenetic proteins, BMP-2, BMP2A, BMP-2A, bone morphogenetic protein-2, bone morphogenetic protein 2A, bone morphogenetic protein 2, BMP 2, bone-morphogenetic protein 2A, 3 BMP, bone morphogenetic proteins, bone morphogenetic protein 2, HGNC:1069, bonemorphogenetic protein-2, Bmp
PRKCD	ENSP00000378217	Protein kinase Cdelta, PKC-delta, PKCdelta, protein kinase C delta, PKC delta, PRKCD, Pkcd, protein kinase C-delta, protein kinase C delta type, PKC-D
PDZD2	ENSP00000402033	Pin1, PAPIN, PDZD2, PDZ domain containing 2, hPin1, PDZ-domain-containing 2, Pin-1, PIN 1, PDZK3, PDZ domain containing protein 3, PDZ domain-containing protein 2, PDZ domain-containing protein 3, PDZ domain containing 3
RPS6KA1	ENSP00000435412	Rsk, p90rsk, HU-1, RPS6KA1, Hu1, RSK1, p90 rsk, p90-RSK, RSK-1, Ribosomal S6 kinase 1, ribosomal protein S6 kinase A1, ribosomal S6 kinase1, 2 Wnt, 2-Wnt, 90 kDa ribosomal protein S6 kinase 1
SEC14L2	ENSP00000478755	TAP1, SEC14L2, alpha-tocopherol associated protein, hTAP1, Spf, alpha-tocopherol-associated protein, Supernatant protein factor, TAP-1, TAP 1, alpha tocopherol-associated protein
GLI1	ENSP00000228682	Gli, GLI-1, Gli1, oncogene GLI, glioma-associated oncogene family zinc finger-1, glioma-associated-oncogene, glioma-associated oncogene homolog 1, Glioma-associated oncogene, glioma-associated oncogene homolog1, Gli 1, GLI family zinc finger 1, Glioma-associated oncogene homolog-1, glioma-associated oncogene family zinc finger 1, Zinc Finger protein GLI1
PIN1	ENSP00000247970	Pin1, UBL5, hPin1, peptidyl-prolyl cis-trans isomerase Pin1, Pin-1, PIN 1, 2 XPA, Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1, Peptidylprolyl cis/trans isomerase, NIMA-interacting 1
KCNH2	ENSP00000262186	HERG, Kv11.1, ERG1, KCNH2, erg, hERG1, erg 1, H-erg, SQT1, U04270, ERG-1, KCNH2-p, ER-G1, potassium voltage-gated channel subfamily H member 2, KCNH2 p, Kv 11.1

NFKBIA	ENSP00000216797	IkappaBalpha, ikba, I kappa B alpha, IkappaB-alpha, mad3, NFKBIA, hMAD-3, IkappaB alpha, MAD-3, I kappa B-alpha, I kappaB alpha, NFKBI, I-kappaBalpha, I kappa B- alpha, I-kappa B alpha, Ikappa Balpha, Ikappa-Balpha, I-kappa B-alpha, NFkappaB inhibitor alpha, I-kappaB alpha, I-kBa, NF-kappaB inhibitor alpha, I-kappaB-alpha, nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha, NF-kB Inhibitor alpha, NF-kBIA, I-kappa-B-alpha, NF-kappa-B inhibitor alpha, NFKB inhibitor alpha
AXL	ENSP00000301178	Axl, Axl receptor tyrosine kinase, ARK, axl oncogene
IL13	ENSP00000304915	IL-13, IL13, p600, interleukin 13, interleukin-13, hIL-13, Bhr1, hIL13, Interleukin13, IL13 p, IL 13, 5L6Y, IL- 13
CYP3A4	ENSP00000337915	CYP3A4, cytochrome P450 3A4, CYP3A, HLp, P450PCN1, cholesterol 25-hydroxylase, cytochrome P450HLp, Cytochrome P-450 3A4, cholesterol-25-hydroxylase, nifedipine oxidase, CYP3A3, NF25, cytochrome P-450 PCN1, cytochrome P4503A4, cytochrome P450pcn1, CYP 3A4, CP33, hCYP3A4, Cholesterol 25 hydroxylase, NF2 5, cytochrome P450, subfamily IIIA, polypeptide 4, AF209389, cytochrome P450-3A4, CYP 3A, CYP-3A4, cytochrome P450 family 3, CYP3 A4, cytochrome P450 family 3 subfamily A member 4
POMC	ENSP00000384092	POMC, beta-endorphin, ACTH, proopiomelanocortin, alpha-melanocyte-stimulating hormone, adrenocorticotrophic hormone, pro-opiomelanocortin, CLIP, adrenocorticotropin, pro-opio-melanocortin, alpha-melanocyte stimulating hormone, beta-melanocyte stimulating hormone, beta-melanocyte-stimulating hormone, beta-lipotropin, adrenocortico tropic hormone, msh, alpha-melanocyte--stimulating hormone, alpha melanocyte stimulating hormone, Alpha melanocyte-stimulating hormone, Beta endorphin, npp, NP-P, adreno corticotrophic hormone, pOC
GDF2	ENSP00000463051	BMP-9, BMP9, Bone morphogenetic protein 9, Bone morphogenetic protein-9, GDF2, growth differentiation factor 2, Bone morphogenetic protein9
HSPA1A	ENSP00000364802	hsp72, HSP 72, HSP70-2, HSP70-1, HSPA1B, heat shock 70 kDa protein 1A, HSPA1A, Hsp-72, HSP70.2, heat shock 70 kDa protein 1, 5 BPM, heat shock 70 kDa proteins, HSPA1, HSP70-1B, HSP 70-1, h-Hsp72, Hsp 70-2, Hsp-70 1B, 3 LoF, Heat shock protein family A member 1A, hsx70

ALK	ENSP00000373700	ALK, anaplastic lymphoma kinase, ALK receptor tyrosine kinase, anaplastic-lymphoma-kinase, ALK receptor tyrosine-kinase, CD246, anaplastic lymphoma receptor tyrosine kinase, ALK tyrosine kinase receptor, anaplastic-lymphoma kinase, anaplastic lymphomakinase, 3 LCS, anaplasticlymphomakinase, anaplasticlymphoma kinase
CLU	ENSP00000315130	clusterin, apolipoprotein J, TRPM2, APOJ, SGP-2, CLU, SP-40, testosterone-repressed prostate message 2, TRPM-2, sulfated glycoprotein-2, Sulfated glycoprotein 2, apo J, complement lysis inhibitor, complement-lysis inhibitor, Testosterone-repressed prostate message-2, NA1/NA2, APO-J, SGP2, CLU1, CLU2, TRPM 2, CL-I, CLU 1, CLU 2, Apolipoprotein-J
SLC2A4	ENSP00000320935	GLUT4, GLUT-4, SLC2A4, GLUT 4, hGLUT-4, GLUT4-P, solute carrier family 2 member 4, Solute carrier family-2-member-4, solute carrier family 2 (facilitated glucose transporter), member 4, solute carrier family 2, facilitated glucose transporter member 4, hGLUT4
CYP17A1	ENSP00000358903	P450c17, CYP17, cytochrome P450c17, CYP17A1, P450 c17, steroid 17alpha-hydroxylase/17, 20 lyase, steroid 17 alpha-monooxygenase, CYP 17, P-450C17, steroid 17 alpha-hydroxylase/17, 20 lyase, Cytochrome P450c 17, cytochrome P-450c17, hCYP17, CYP17 A1, cytochrome P450 17A1, steroid 17alpha-hydroxylase/17, 20-lyase, P450c 17, cytochrome P450, family 17, subfamily a, polypeptide 1, CYP17-A1, Cytochrome P450-C17, CYP-17, cytochrome P450 family 17 subfamily A member 1, CYP 17A1, cytochrome P450 family 17
WNT5A	ENSP00000264634	Wnt family, Wnt5a, Wnt-5a, Wnt5a protein, Wnt 5A, Wnt-5a protein, Wnt-family, wntless-type MMTV integration site family, member 5A, Wnt5-a, protein WNT5A, Wnt family member 5a, hWnt5a
MIR215P	hsa-miR-21-5p	mir-21, hsa-mir-21, MIR21, miR 21, miR-21-5p, hsa-miR-21-5p, miR-21, MiR 21-5p, hsa-miR21
MIR34A5P	hsa-miR-34a-5p	miR-34a, miR34a, hsa-miR-34a, miR-34a-5p, miR34A-5p, hsa-miR34a, MiR- 34a, hsa-miR-34a-5p, mi-R34a

NTRK1	ENSP00000431418	TRKA, tyrosine kinase receptor, NTRK1, Trk, TRK-A, gp140trk, mtC, high-affinity nerve growth factor receptor, trk1, TRK A, neurotrophic tyrosine kinase receptor type 1, tyrosine kinase-receptor, p140trka, tyrosine-kinase receptor, tyrosinekinase receptor, tyrosine kinase receptor A, p140 TrkA, tyrosine-kinase-receptor, high affinity nerve growth factor receptor, tropomyosin-related kinase A, neurotrophic tyrosine kinase, receptor, type 1, p-140 TrkA, tropomyosin related kinase A, 4 PMs, neurotrophic tyrosine kinase receptor type 1, neurotrophic receptor tyrosine kinase 1, 1-shC, tropomyosin-related kinase-A, Trk- A, p140trk-A
PGPEP1	ENSP00000269919	Pyroglutamyl peptidase I, pcP, Pyroglutamyl-peptidase I, Pg I, P-gp, PGI, EC 3.4.19.3, AJ278828, pgp, PGPEP1, PC p, Pg-I, pyroglutamyl-aminopeptidase
GJA1	ENSP00000282561	Cx43, connexin43, GJA1, GJA 1, Connexin 43, Gja-1, cx 43, connexin-43, gap junction protein alpha-1, gap junction protein alpha 1, GJA1P, Cx-43, hCx43, Gap junction protein-alpha 1, C x 43, Gap Junction Protein Alpha1, PPKCA, Cx43 p, EKV-P, gap junction protein, alpha 1, 43 kDa, cMDR, Gjal
F2RL1	ENSP00000296677	PAR-2, proteinase-activated receptor-2, PAR2, proteinase activated receptor-2, proteinase-activated receptor 2, F2rl1, proteinase activated receptor 2, PAR 2, hPar2, coagulation factor II receptor-like 1, Proteinase activated-receptor 2, proteinaseactivated receptor-2
PSEN1	ENSP00000326366	presenilin-1, PSEN1, PS1, PS-1, presenilin 1, HPS1, HPS-1, Ps 1, AD3, PS -1, presenilin1, PSEN-1, pre-senilin 1, Ad3p, PSEN1 p, Presenilin -1, S18-2, AD-3, Hp-s1, PSEN 1, PSNL1
PGP	ENSP00000330918	phosphoglycolate phosphatase, P-gp, EC 3.1.3.18, pgp, Glycerol-3-phosphate phosphatase, G3PP
CTNNB1	ENSP00000344456	CTNNB1, beta-catenin, 1p22, beta catenin, beta -catenin, 1----p22, betacatenin, beta-catenins, beta- catenin, CTNNB 1, CTNNB-1, catenin beta1, 1 p22, CTNNB, catenin beta 1, CTNNB1 p, catenin (cadherin-associated protein), beta 1, 88kDa, catenin (cadherin-associated protein), beta 1, 88 kDa, catenin beta-1, Catenin-beta-1
PON1	ENSP00000222381	PON1, PON, paraoxonases, paraoxonase 1, Paraoxonase-1, esterase-A, esterase A, EC 3.1.1.2, arylesterase 1, Paraoxonase1, PON 1, PON-1, EsA, hPON1, EC 3.1.8.1, serum paraoxonase/arylesterase 1, PON1 p

SCGB2A2	ENSP00000227918	HMGB1, mammaglobin-1, HMGB 1, MGB1, HMGB-1, SCGB2A2, mammaglobin-A, secretoglobin family 2A member 2, Mammaglobin A, mammaglobin 1
HBEGF	ENSP00000230990	HB-EGF, heparin-binding epidermal growth factor, Hbegf, diphtheria toxin receptor, heparin-binding EGF-like growth factor, D-T-S, D-T-R, DTR, Hegfl, Heparin-binding epidermal-growth-factor, heparin binding epidermal growth factor, heparin binding EGF-like growth factor, heparin binding EGF like growth factor, heparin binding-EGF-like growth factor, heparin binding-epidermal growth factor, heparin- binding epidermal growth factor, heparin-binding EGF like growth factor
DUSP1	ENSP00000239223	MKP-1, VH1, Dusp1, VH 1, CL100, VH-1, dual-specificity phosphatase-1, MKP1, dual specificity phosphatase 1, mitogen-activated protein kinase phosphatase-1, mitogen-activated protein kinase phosphatase 1, hVH-1, V-H1, mitogen activated protein kinase phosphatase-1, Dual-specificity phosphatase 1, HVH1, PTPN10, Dual specificity protein phosphatase 1, Dual-specificity protein phosphatase 1, DUSP-1, dual specificity phosphatase-1, dual-specificity protein phosphatase1, dual-specificity protein phosphatase-1
CCL21	ENSP00000259607	Exodus-2, CCL21, SCYA21, secondary lymphoid tissue chemokine, 6Ckine, secondary lymphoid-tissue chemokine, TCA4, CCL-21, Exodus2, slc, CCL 21, chemokine ligand 21, chemokine (C-C motif) ligand 21, C-C motif chemokine ligand 21, hCCL21
GDE1	ENSP00000261386	MIR16, miR-16, Membrane Interacting protein of RGS16, miR- 16, miR 16
FOXO1	ENSP00000368880	FKHR, Foxo1, forkhead box O1, FOXO1A, 3 COA, Foxo-1, forkhead in rhabdomyosarcoma, forkhead homolog in rhabdomyosarcoma, forkhead box protein O1, Forkhead boxO1, forkhead box protein O 1, FOXO 1, Forkhead box O 1, fork head box O 1, Forkhead box-O1, 3coa, fork head box protein O1

ABCC1	ENSP00000382342	MRP1, ABCC1, multidrug resistance-associated protein 1, multidrug resistance-associated protein-1, Mrp, ABCC, leukotriene C(4) transporter, hMRP1, ABC-C, MRP-1, multidrug resistance associated protein 1, multidrug resistance associated protein-1, MRP1 p, ATP-binding cassette, subfamily C, member 1, ATP binding cassette sub-family C, A-B-C-C, MR p, ATP-binding cassette sub-family C member 1, Gsx, ATP-binding cassette, sub-family C, member 1, MRP 1, multidrug-resistance-associated protein 1, multidrug-resistance-associated protein-1, ATP-binding cassette sub-family C, multidrug resistance associated protein1, ATP binding cassette subfamily C member 1, ATP binding cassette subfamily C, 2CBZ, ATP-binding cassette subfamily C member 1, hABCC1
PRAP1	ENSP00000416126	uPA, u-PA, Proline-rich acidic protein 1, PRAP1, up-a
CDKN2A	ENSP00000418915	ARF, CDKN2A, p16, INK4a, P16INK4A, p14, p19ARF, p14ARF, INK4, CDKN2, CDK4I, mts1, p16INK4, Ink4-a, MTS-1, cyclin-dependent kinase inhibitor 2a, multiple tumor suppressor 1, cyclin dependent kinase inhibitor 2A, CMM2, p16 INK4A, cyclin-dependent kinase inhibitor-2A, p16 INK4, p-16, p1 6, INK 4A, p14 ARF, TP16, p16-INK4A, p14-ARF, p 16, p19 ARF, p16-INK4, cyclin-dependent kinase 4 inhibitor A, HP-14, H-MTS1, CDKN2A p, MTs 1, p 14, HP14, p19-ARF, TP-16, multiple tumor suppressor-1, P 16ink4, CDKN 2, hp19ARF
MIR165P	hsa-miR-16-5p	MIR16, miR-16, hsa-miR-16, miR- 16, miR-16-5p, hsa-miR-16-5p, miR-16- 5p, miR 16, hsamiR-16-5p, miR- 16-5p
HESX1	ENSP00000295934	Hesx1, Rpx, ANF, HESX-1, HA-NF
ACHE	ENSP00000303211	acetylcholinesterase, EC 3.1.1.7, acetyl-cholinesterase, acetyl cholinesterase, 1B41, N-AChE, EC3.1.1.7, 4M0E, acetylcholine sterase
BAX	ENSP00000293288	Bcl2-associated X protein, Bcl-2-family, bcl-2 family, Bcl-2-associated X protein, Bcl2 family, Bcl-2 associated X protein, BCL2-family, Apoptosis regulator BAX, Bcl2 associated X protein, Bcl 2-family, Bcl2-like protein 4, Bcl-2 associated X, apoptosis regulator, Bcl-2-associated X, apoptosis regulator, BCL2 associated X, apoptosis regulator, Bcl-2-like protein 4, Bcl 2 associated x protein, Bcl-2-associated-X protein, BCL2-associated X, apoptosis regulator, Bcl-2-associated X-protein

CCL11	ENSP00000302234	eotaxin, CCL11, Eotaxin1, eotaxin-1, SCYA11, Eotaxin 1, eosinophil chemotactic protein, chemokine (C-C motif) ligand 11, CCL 11, 2 MPM, CCL-11, C-C motif chemokine 11, C-C motif chemokine ligand 11, C-C motif chemokine11, chemokine ligand 11
ATF3	ENSP00000344352	Activating transcription factor 3, ATF3, ATF-3, activating transcription factor-3, ATF3-008
GLP1R	ENSP00000362353	glp1, GLP-1R, GLP-1, Glp1r, Glucagon-like peptide-1 receptor, glucagon receptor family, glucagon-like peptide 1 receptor, Glucagonlike peptide-1 receptor, glucagon like peptide-1 receptor, hGLP-1R, GLP-1 R, GLP1-R, glucagon like peptide 1 receptor, glucagon -like peptide-1 receptor, Glucagon like-peptide 1 receptor, glucagon-like-peptide-1 receptor, glucagonlike peptide 1 receptor, GLP 1, GLP -1, GLP -1R, glucagon-like peptide 1receptor, glucagon-like-peptide 1 receptor, GLP-1-R
NPPA	ENSP00000365663	Nppa, ANP, ANF, cDD, natriuretic peptide precursor A, natriuretic peptide A, Natriuretic Peptides-A, natriuretic peptides A
KLHL1	ENSP00000367075	KLHL1, MRP-2, Mrp2, Kelch-like 1, Kelch-like protein 1, MAYVEN-related protein 2, Mrp 2
SYCE1L	ENSP00000367911	Mrp2, MRP-2, Mrp 2
PRNP	ENSP00000368752	prion protein, PRNP, PrP, PRIP, PrP27-30, prion-protein, PrPC, PrP 27-30, PrP C, gss, pr p, 3 HER, AScr, Prn-p, major prion protein, 3 HES, PrP27 - 30, 1E1P, 1E1U, 2K1D
CASP1	ENSP00000433138	caspase-1, Caspase 1, casp1, interleukin-1 beta converting enzyme, IL1BC, interleukin 1 beta-converting enzyme, p45, interleukin-1 beta-converting enzyme, Interleukin-1beta Converting Enzyme, IL-1B C, interleukin 1beta converting enzyme, interleukin-1beta-converting enzyme, interleukin- 1beta-converting enzyme, caspase-1, interleukin 1beta-converting enzyme, interleukin-1-beta converting enzyme, interleukin-1-beta-converting enzyme, caspase1, IL1B C, CASP-1, interleukin-1betaconverting enzyme, interleukin 1 beta converting enzyme
CLDN2	ENSP00000441283	Claudin-2, Cldn2, claudin 2, CLDN-2, HSP82, CLDN 2, claudin2
TTR	ENSP00000237014	TTR, Transthyretin, Palb, prealbumin, TbpA, ATTR, CTS1, 4 act, 3-Neo, 2B15, T TR, CTS-1, 4 TNF, 3neo, 3cN0, pre-Albumin, 1 Tyr, AT-TR, 3 Neo, P-Alb, CT-S

ADAM10	ENSP00000260408	ADAM 10, ADAM10, RAK, MADM, KUZ, ADAM-10, AD10, Ad18, disintegrin and metalloproteinase domain-containing protein 10, ADAM metallopeptidase domain 10
TIMP2	ENSP00000262768	TIMP-2, Tissue inhibitor of metalloproteinases-2, TIMP2, tissue inhibitor of metalloproteinase 2, Tissue inhibitor of metalloproteinases 2, CSC-21K, hTIMP-2, tissue inhibitor of metalloproteinase-2, TIMP 2, tissue inhibitor of metalloproteinase2, tissue-Inhibitor of Metalloproteinase-2, TIMP-2, Tissue inhibitor of metallopeptidases, TIMP metallopeptidase inhibitor 2, metalloproteinase inhibitor-2, metalloproteinase inhibitor 2, TIMP metallopeptidase inhibitor-2
CD274	ENSP00000370989	B7-H1, PD-L1, PDL1, CD274, B7H, Programmed cell death 1 ligand 1, B7-homolog 1, B7 homolog 1, PDL-1, B7H1, Programmed cell Death-1 Ligand 1, B7-H, programmed cell death-1 ligand-1, hPD-L1, PD--L1, programmed cell death 1 ligand-1, 3FN3, programmed cell death 1-Ligand 1, CD274 molecule, PD -L1, CD 274, PD L1, programmed cell-death 1 ligand 1, CD-274, PDCD1LG1
PROM1	ENSP00000426809	AC133, CD133, Prominin-1, PROM1, Stargardt disease-4, STGD4, Prominin 1, MCDR2, prominin-like protein 1, PROML1, Prom-1, hCD133, Prominin1, CD 133, CD-133, PROM1 p
DNM1L	ENSP00000449089	DLP1, DRP-1, dynamin-like protein, DRP1, DNM1L, Vps1p, dymple, HdynIV, Vps1, dynamin-related protein 1, DVLP, Dnm1p/Vps1p-like protein, hDLP1, dynamin-related protein-1, dynamin-like protein IV, dynamin 1-like, vps 1, dynamin related protein 1, dynamin-1-like protein, Dynamin-related protein1, dynamin 1 like protein, dynamin related protein-1, DRP 1, dynamin 1 like, Dynamin-Related-Protein 1, dynamin-1 like, dynamin 1-like protein

ACE	ENSP00000290866	angiotensin-converting enzyme, ACE, Angiotensin I-converting enzyme, DCP1, ACE1, HACE1, Angiotensin converting enzyme, angiotensin-converting-enzyme, angiotensin I converting enzyme, Angiotensin-I converting enzyme, angiotensin I--converting enzyme, peptidyl-dipeptidase A, EC 3.4.15.1, kininase II, hDcp1, peptidyl dipeptidase A, angiotensin-I-converting enzyme, CD143, angiotensin- converting enzyme, Angiotensinconverting enzyme, DCP-1, ich, ACE-1, angiotensin I-converting-enzyme, CD 143, angiotensin I- converting enzyme, angiotensin I converting enzyme 1, Angiotensin converting-enzyme, angiotensinconverting- enzyme, Angiotensin -converting enzyme, 2XY9, 3NXQ, Angiotensin-convertingenzyme, 4-APH, dipeptidyl-carboxypeptidase I, dipeptidyl carboxypeptidase-I
MGMT	ENSP00000302111	MGMT, O6-methylguanine-DNA methyltransferase, EC 2.1.1.63, O6-methylguanine-DNA-methyltransferase, O-6-methylguanine-DNA methyltransferase, O6-methylguanine DNA methyltransferase, O6-methyl-guanine-DNA methyltransferase, O-6-methylguanine DNA methyltransferase, O6-methylguanine DNA-methyltransferase, O 6 -methylguanine-DNA methyltransferase, O6 methylguanine DNA methyl-transferase, O6 -methylguanine-DNA methyltransferase, O6 methylguanine DNA methyltransferase, O6-methylguanine-DNA methyl-transferase, O6-methyl guanine DNA methyl transferase, O6 methylguanine-DNA methyltransferase, O-6-methylguanine-DNA-methyltransferase, O6-methylguanine-DNA methyl transferase, O6-Methyl Guanine DNA Methyltransferase, O-6-methylguanine-DNA methyltransferase, O6-methylguanine-DNA-methyltransferase, O6-methylguanine-DNA-methyl transferase, O-6-methylguanine DNA-methyltransferase, O6-methylguanine-DNA-methyltransferase, O 6-methylguanine DNA methyltransferase, O6 methylguanine-DNA-methyltransferase, O6-methyl-guanine-DNA-methyltransferase, O6-methylguanine- DNA methyltransferase, O6 -methylguanine DNA methyltransferase, O6 -methylguanine DNA-methyltransferase, O 6-methylguanine-DNA methyltransferase, O-6-methyl guanine DNA methyltransferase
FEN1	ENSP00000305480	flap endonuclease-1, FEN-1, FEN1, RAD2, FEN 1, Mf1, Mf-1, maturation factor-1, Flap endonuclease 1, DNase IV, flap structure-specific endonuclease 1

EZH2	ENSP00000320147	Ezh2, Enhancer of Zeste homolog 2, Polycomb repressive complex 2, EZH1, Enx1, histone-lysine N-methyltransferase EZH2, EZH 2, Polycomb-Repressive Complex 2, polycomb repressive complex-2, enhancer of Zeste homolog-2, enhancer-of-zeste homolog 2, enhancer of zeste homolog2, enhancer of zeste 2 polycomb repressive complex 2 subunit, enhancer of zeste-homolog 2, KMT6A, KMT6, Polycomb Repressive Complex2, polycomb-repressive complex2, polycomb-repressive complex 2, EZH2 p
GTF2H2	ENSP00000328901	TFIIH, p44, BTF2p44, BTF2, GTF2H2, 5 of 4, p 44, p-44
SGK1	ENSP00000356832	SGK, SGK1, sgk-1, serum/glucocorticoid regulated kinase, serum/glucocorticoid-regulated kinase 1, h-SGK1, hSGK1, serum/glucocorticoid regulated kinase-1, serum/glucocorticoid-regulated kinase, serum/glucocorticoid regulated kinase 1, serum/glucocorticoid-regulated kinase-1
IFI44	ENSP00000359783	p44, p 44, IFI44, Interferon-induced protein 44, p-44
OSM	ENSP00000215781	oncostatin M, osm, oncostatin-M, oncostatinM, OS-M
IFNG	ENSP00000229135	interferon-gamma, IFNG, interferon gamma, interferongamma, immune interferon, Ifi, Ifg, IFN-g, interferon- gamma, interferon-g, inter-feron-gamma, IFN- g
ODC1	ENSP00000234111	ornithine decarboxylase, ODC1, ODC, EC 4.1.1.17, ornithine decarboxylase 1, ornithine decarboxylase-1, Odc1p
WDR77	ENSP00000235090	p44, MEP50, WD repeat domain 77, WD45, WDR77, methylosome protein 50, p44/Mep50, androgen receptor cofactor p44, p 44, WDR7-7, p-44
APOA1	ENSP00000236850	apo AI, apoA-I, apo(a, apoAI, apolipoprotein AI, apolipoprotein A1, apo A-I, apolipoprotein A-I, APOA1, Apo-A1, apo-A-I, apo A-1, apolipoprotein A-1, APO A1, apo-AI, 1AV1, apolipoprotein A I, apoA-1, 2 MSC, ApolipoproteinA1, apolipoprotein-A1, Apo lipoprotein A-I, Apo lipoprotein A1, apolipoprotein-AI, apoA I, ApolipoproteinA-I, Apo (a
GRP	ENSP00000256857	gastrin-releasing peptide, GRP, bombesin, prepro-GRP, GR-P, pro-GRP, neuromedin C, Gastrin releasing peptide, ProGRP, preproGRP, pre-pro-GRP, Pre-proGRP, GR P, Gastrin-releasing-peptide, prepro GRP

TRPA1	ENSP00000262209	TRPA1, ANKTM1, hTRPA1, transient receptor potential cation channel, subfamily A, member 1, TRPA-1, transient receptor potential cation channel subfamily A member 1, TRP-A1
CD4	ENSP00000011653	CD4, CD4 molecule, CD4 antigen, hCD4, CD4 receptor, CD 4, 1q6-8, CD-4, CD4-receptor, T cell surface glycoprotein CD4, CD 4 molecule, CD4- human, 5 Thr, 3 CD4, T-cell surface glycoprotein CD4
SIRT2	ENSP00000249396	sirtuins, sirtuin, SIR2, SIR2Lp, hSIR2, SIRT2, Sir2p, SIR2L, Sirtuin 2, sirtuin-2, SIRT-2, Sirt2-p, Sirtuin2, SIRT 2, 5 mar
CDH2	ENSP00000269141	N-cadherin, CDH2, Cadherin 2, NCAD, N-Cad, neural cadherin, N cadherin, neural-cadherin, cadherin 2, type 1, N-cadherin (neuronal, N- cadherin, CDH-2, cadherin-2
KLF4	ENSP00000363804	Kruppel-like factor 4, KLF4, GKLF, Kruppel-like factors, EZF, KLF-4, hKlf4, Kruppel-like factor4, Kruppel-like factor-4, Kruppel like factor 4, Krueppel-like factor 4
SQSTM1	ENSP00000374455	p62, PDB3, SQSTM1, sequestosome 1, Zip3, p60, Zip3p, Sequestosome-1, hZip3, p-62, sequestosome1, ubiquitin-binding protein p62, SQSTM1 p, ubiquitin binding protein p62, SQSTM-1, SQSTM 1, phosphotyrosine-independent ligand for the Lck SH2 domain of 62 kDa
FGFR2	ENSP00000410294	FGFR2, fibroblast growth factor receptor 2, bek, CFD1, TK14, FGFR-2, K-SAM, fibroblast growth factor receptor-2, KGFR, fibroblast growth-factor receptor 2, Cfd1p, keratinocyte growth-factor receptor, keratinocyte growth factor receptor, TK25, KGF-R, fibroblast growth factor receptor2, FGFR 2, 2 PWL, FGFR2 p, Ect1, B BDs, FGF-R2
ADCYAP1	ENSP00000462647	PACAP, ADCYAP1, pituitary adenylate cyclase activating polypeptide, pituitary adenylate cyclase-activating polypeptide, adenylate cyclase activating polypeptide 1, adenylate cyclase-activating polypeptide 1, adenylate cyclase-activating polypeptide 1 (pituitary, pituitary adenylate-cyclase activating polypeptide, pituitary adenylate cyclase- activating polypeptide
MUC5AC	ENSP00000485659	Muc5AC, tracheo-bronchial mucin, tracheobronchial mucin, MUC5, mucin 5AC, Muc-5ac, MUC 5AC, LeB, mucin-5AC, mucin5AC, MUC5 AC, mucin 5AC, oligomeric mucus/gel-forming, MUC 5

CXCL10	ENSP00000305651	INP10, IP-10, CXCL10, Mob-1, IP10, chemokine ligand 10, Mob1, SCYB10, crg-2, CXCL-10, chemokine ligand-10, chemokine (C-X-C motif) ligand 10, Crg2, chemokine-ligand-10, Hc7, CXCL 10, C-X-C motif chemokine ligand 10, chemokine ligand 10, C-X-C motif chemokine 10, CXC motif chemokine 10, CXCL10p, CXC-L10, CXC motif chemokine ligand 10
ANGPT2	ENSP00000314897	angiopoietin-2, Ang2, Angpt2, Ang-2, angiopoietin 2, ANGPT-2, Ang 2, ANGPT 2, Angiopoietin2, AGPT2
ALOX5	ENSP00000363512	5LO, ALOX5, 5-LO, arachidonate 5-lipoxygenase, EC 1.13.11.34, 5-LOX, 5LOX, Arachidonate 5 lipoxygenase, ALOX-5, EC1.13.11.34, Arachidonate-5-lipoxygenase, 5- lo
TXNIP	ENSP00000462521	VDUP1, TXNIP, Thioredoxin binding protein-2, thioredoxin interacting protein, Thioredoxin-interacting protein, vitamin D3 up-regulated protein 1, Vitamin D3 upregulated protein 1, Thioredoxin-binding protein-2, Vitamin D3 up-regulated protein-1, thioredoxin binding protein 2, thioredoxin-binding protein 2, VDUP-1, THIF, Thioredoxin-interacting-protein
CDKN1B	ENSP00000228872	Kip1, p27-Kip1, CDKN1B, p27Kip1, p27 KIP1, cyclin-dependent kinase inhibitor p27, MEN4, CDKN4, cyclin dependent kinase inhibitor p27, KIP 1, p27Kip-1, KIP-1, cyclin-dependent kinase inhibitor 1B, cyclin-dependent kinase inhibitor-1B, cyclin dependent kinase inhibitor 1B
SCARB1	ENSP00000261693	SR-BI, SRBI, CLA1, SR-B1, CLA-1, CD36 and LIMPII analogous-1, SCARB1, CD36L1, scavenger receptor class B, member 1, scavenger receptor class B member 1, SRB1, hSR-B1, scavenger receptor class-B member 1, SRB-1, SRB-I, scavenger receptor class B member1
SMAD2	ENSP00000262160	Smad2, Madr2, MADH2, Smad family, hsMAD2, SMAD-2, Smad 2, hMad2, JV18-1, Smad2P, JV-18, Smad2-P, mothers against decapentaplegic homolog 2, SMAD family member 2, Mad related protein 2, JV18
SLC9A1	ENSP00000263980	NHE1, Slc9a1, NHE-1, solute carrier family 9, Na(+)/H(+) exchanger 1, Na(+)/H(+) exchanger-1, Na(+) /H(+) exchanger 1, Na(+) /H(+) exchanger-1, Sodium/hydrogen exchanger 1

BCHE	ENSP00000264381	hE1, butyrylcholinesterase, BCHE, cholinesterase, cholinesterase 2, CHE1, pseudocholinesterase, CHE2, Che-1, EC 3.1.1.8, butyrylcholinesterase, acylcholine-acyl-hydrolase, cholinesterase-2, acylcholine acylhydrolase, pseudo-cholinesterase, butyrylcholinesterase, AAH08396.1, butyrylcholine esterase, 1P0I, butyrylcholineesterase, 4BDS, acylcholine-acylhydrolase
MYCN	ENSP00000281043	N-myc, MYCN, Nmyc, MODED, MYC-N, MYC not, Myc N, MYCN human, V-Myc Avian Myelocytomatosis Viral Oncogene Neuroblastoma-Derived Homolog, v-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog, N-myc proto-oncogene protein, N MYC
PLK1	ENSP00000300093	Plk1, polo-like kinase 1, Plk, 3----p36, Plk-1, STPK13, Polo-like kinase, 2 YAC, 3----p35, Polo-like kinase-1, PLK 1, polo-like kinase1, polo-like kinase 1, polo like kinase 1, Polo-like-kinase 1, Polo like kinase, Polo like kinase-1, 3p35, serine/threonine-protein kinase PLK1, Polo-like-kinase-1
PSG1	ENSP00000308970	SP1, Sp-1, PSG4, PSGGA, PSBG1, Sp 1, PSG1, pregnancy-specific glycoproteins, DHFRP2, PSG95, PSG-1, pregnancy specific beta-1-glycoprotein 1, HSP1, PSG9, Pregnancy Specific Glycoproteins
CFLAR	ENSP00000312455	FLIP, 3H11, I-FLICE, MRIT, CLARP, c-FLIP, FLAME-1, CFLAR, cFLIP, cFLIPL, cellular FLICE-like inhibitory protein, caspase-like apoptosis-regulatory protein, death effector domain containing, usurpin, c-FLIP-L, cFLIP-L, cFLIPS, c-FLIPS, c-FLIP L, c-FLIP-s, c-FLIPL, c-FLIP R, c-FLIPR, cellular FLICE-like-inhibitory protein, caspase homolog, CASP8 and FADD-like apoptosis regulator, C Flip
F2R	ENSP00000321326	PAR1, thrombin receptor, HTR, PAR-1, protease-activated receptor-1, F2r, protease activated receptor 1, proteinase-activated receptor-1, protease-activated receptor 1, protease-activated-receptor 1, Cf2r, thrombin-receptor, Par 1, protease activated receptor-1, Proteinase-activated receptor 1, hPar1, proteinase activated receptor-1, coagulation factor II receptor, protease-activated-receptor-1, coagulation factor II (thrombin) receptor, coagulation factor II thrombin receptor, 1-NRP, h-TR
DAND5	ENSP00000323155	Sp1, Sp-1, sp 1, Cerl-2, CER2, HSP1, DAND5, Cerl2, DAND5 p, Grem3
JAK1	ENSP00000343204	JAK1, Janus kinase 1, Jak-1, JAK1A, JAK 1, Janus kinase1, Janus-Kinase-1, Janus kinase-1

MIR2055P	hsa-miR-205-5p	miR-205, MIR205, hsa-miR205, hsa-miR-205, miR-205-5p
IRS2	ENSP00000365016	Irs-2, insulin receptor substrate-2, IRS2, insulin receptor substrate 2, insulin-receptor substrate 2, insulin receptor substrate2
GPC3	ENSP00000377836	GPC3, glypicans, glypican-3, SGBS1, OCI-5, Gpc-3, glypican 3, MXR7, GPC 3, Glypican3, GTR2-2
EIF4G1	ENSP00000416255	p220, eIF4G, eIF4GI, PARK18, EIF4G1, eukaryotic translation initiation factor 4 gamma 1, eIF4G I, eIF4G1 p, eIF-4G, 4-aza, eIF4G-1, Eukaryotic translation initiation factor 4G-1, eukaryotic translation initiation factor 4G1, eukaryotic translation initiation factor 4-gamma 1
DDIT3	ENSP00000448665	CCAAT/enhancer-binding protein homologous protein, CHOP-10, C/EBP homologous protein, DDIT3, gadd153, GADD 153, C/EBPzeta, C/EBP-homologous protein, CHOP10, DNA-damage-inducible transcript 3, CCAAT/enhancer binding protein homologous protein, CCAAT/enhancer binding-protein homologous protein, GADD-153, C/EBP homologous protein 10, CH OP, CCAAT/enhancer-binding protein-homologous protein, DNA Damage-Inducible Transcript 3, CCAAT/-enhancer-binding protein homologous protein, C/EBP homologous protein-10, CEBPZ, DNA damage inducible transcript 3, C/EBPhomologous protein, DNA damage-inducible transcript 3 protein, C/-EBP homologous protein
KEAP1	ENSP00000171111	Keap1, Kelch-like ECH-associated protein 1, 4 IFN, 4 in 4, Kelch-like ECH-associated protein-1, INrf2, Kelch like-ECH-associated protein 1, keap 1, Keap-1, Kelch-like ECH Associated Protein 1, Kelch-like ECH-associated protein1, kelch like ECH-associated protein 1, kelch like ECH associated protein 1, Kelch like ECH-associated protein1
IL2	ENSP00000226730	interleukin-2, IL-2, IL2, interleukin 2, IL 2, TCGF, T-cell growth factor, T cell growth factor, hIL-2, Lymphokine, IL- 2, aldesleukin, interleukin2, hIL2, IL - 2, 3 in K
IGFBP5	ENSP00000233813	IGFBP-5, Igfbp5, insulin-like growth factor-binding protein 5, insulin-like growth factor-binding protein-5, insulin-like growth factor binding protein-5, insulin-like growth factor binding protein 5, IGFBP 5, insulin like growth factor binding protein 5

FLT3	ENSP00000241453	Flt3, Flk-2, Flt-3, stem cell tyrosine kinase-1, FLK2, STK-1, fms-related tyrosine kinase 3, FMS-like tyrosine kinase-3, fms-like tyrosine kinase 3, STK1, fetal liver kinase 2, stem cell tyrosine kinase 1, CD135, FMSlike tyrosine kinase 3, hFlt3, FMS-Like-Tyrosine kinase-3, fms-like tyro-sine kinase 3, fms-related tyrosine kinase-3, Fms-like tyrosine kinase 3, S-TK1, FMS-like-tyrosine-kinase-3, FMS related tyrosine kinase 3, FMS like tyrosine kinase 3, FLT3 p, FMS-like tyrosine kinase3, FMS-like tyrosine-kinase-3, FMS-like tyrosine-kinase 3, fetal liver kinase-2, Fms related tyrosine kinase-3, Fms-related-tyrosine kinase 3, flt 3
PPIG	ENSP00000260970	CYP, CARS-Cyp, CASP10, SRcyp, Clk associating RS-cyclophilin, CASP-10, Casp 10, peptidyl-prolyl cis-trans isomerase G, PPIG
NCOR1	ENSP00000268712	N-CoR, N-CoR1, NCoR, TRAC-1, NCoR1, nuclear receptor corepressor 1, nuclear receptor co-repressor 1, 4 MDD, NCoR-1
HK2	ENSP00000290573	HKII, hK2, hexokinase 2, EC 2.7.1.1, hexokinase-2, Hexokinase type II, HK II, HK-II, AC104135, HXK2, Hk-2, hexokinase2
CCR5	ENSP00000292303	CCR5, ChemR13, CC CKR5, CKR-5, CKR5, chemokine receptor 5, chemokine receptor-5, CC-CKR-5, CC-CKR5, CMKBR5, ccr-5, chemokine-receptor 5, CCR 5, hCCR5, CD195, CCR5 human, C-C motif chemokine receptor 5, CC-motif chemokine receptor 5, C-C chemokine receptor type 5, 4 MBs, CHEMOKINE, CC chemokine receptor type 5, C-C chemokine receptor type-5, CC motif chemokine receptor 5, C-C motif chemokine receptor5, C-C motif chemokine receptors, CC-chemokine receptor type 5, HIV-1 fusion coreceptor
STAT5B	ENSP00000293328	STAT5B, STAT5, signal transducer and activator of transcription 5b, hStat5, STAT 5, STAT-5, STAT 5b, STAT-5b, STAT5-P
FASN	ENSP00000304592	Fasn, EC 2.3.1.85, 3 HHD

UGT1A1	ENSP00000304845	UGT1A1, UGT1A, UGT1A8, UGT1, HUG-Br1, UDP-glucuronosyltransferase 1A, HUGT1, Gnt-1, UDPGT, UDP-glucuronosyltransferase 1A1, UGT-1, UGT-1A, GNT1, UGT-1 A, UGT1-A1, hUGT1A1, UDP-glucuronosyl transferase 1A1, UGT1 A1, UGT 1A1, UGT-1A1, UDP glucuronosyltransferase-1A, UDP-glucuronosyltransferase1A1, UDP glucuronosyltransferase 1A1, UDP-glucuronosyl-transferase 1A1, UDP-glucuronosyltransferase 1A, UDP-glucuronosyl transferase 1A, UGT 1A, UDP glucuronosyltransferase1A1, UDP-glucuronosyltransferase 1 A1, UDP glucuronosyltransferase 1A, UDP-glucuronosyltransferase 1A8, UDP glucuronosyltransferase family 1 member A1, UDP-glucuronosyltransferase-1A1, UGT1A 1, HUG Br1, hugBr1
IRS1	ENSP00000304895	IRS-1, Insulin receptor substrate-1, hIRS-1, IRS1, insulin receptor substrate 1, irs 1, Insulin-receptor substrate 1, insulin-receptor substrate-1, insulin receptor substrate -1
UCP2	ENSP00000312029	UCP2, uncoupling protein-2, uncoupling protein 2, UCP-2, Mitochondrial uncoupling protein-2, mitochondrial uncoupling protein 2, hUCP2, Uncoupling Protein2
STAT5A	ENSP00000341208	Stat5a, STAT5, MGF, signal transducer and activator of transcription 5a, STAT-5, STAT 5, hStat5, STAT 5 A, STAT 5A, STAT5-P, signal transducer and activator of transcription-5a, Signal Transducer and Activator of Transcription 5 A
AIM2	ENSP00000357112	AIM2, absent in melanoma 2, AIM-2, absent-in-melanoma 2, Absent in melanoma-2
HDGF	ENSP00000357189	HDGF, heparin-binding growth factor, hepatoma-derived growth factor, heparin binding growth factor, HBGF, heparin-binding growth factor family, heparin-binding growth factor
LCN2	ENSP00000362108	p25, lipocalins, 24p3, NGAL, lipocalin 2, Lcn2, lipocalin-2, neutrophil gelatinase-associated lipocalin, HNL, oncogene-24p3, siderocalin, lipocalin2, neutrophil gelatinase associated lipocalin, oncogene 24p3, LCN 2, Lcn-2, N-GAL, p-25, hLCN2, Neutrophil Gelatinase Associated-Lipocalin, neutrophil gelatinase- associated lipocalin, 1 ng L, Neutrophil-gelatinase-associated-lipocalin, HN-L, neutrophil-gelatinase associated lipocalin

UGT1A8	ENSP00000362549	HUGT1, UGT1A1, UDP-glucuronosyltransferase 1A1, ugt1, UGT1A, UGT-1A, UGT1A8, UDP-glucuronosyltransferase 1A, Gnt-1, GNT1, UDPGT, UGT-1, UGT-1 A, UGT1-A1, hUGT1A1, UDP-glucuronosyl transferase 1A1, UGT1 A1, UGT 1A1, UGT-1A1, UDP glucuronosyltransferase-1A, UDP glucuronosyltransferase 1 family, polypeptide A1, UDP-glucuronosyltransferase 1 family, polypeptide A1, UDP-glucuronosyltransferase1A1, UDP glucuronosyltransferase 1A1, UDP-glucuronosyl-transferase 1A1, UDP-glucuronosyltransferase 1A, UDP-glucuronosyl transferase 1A, UGT 1A, UDP glucuronosyltransferase1A1, UDP-glucuronosyltransferase 1 A1, UDP glucuronosyltransferase 1A, UDP-glucuronosyltransferase 1A8, UDP glucuronosyltransferase family 1 member A1, UDP-glucuronosyltransferase-1A1, UGT1A 1
NR5A1	ENSP00000362690	SF-1, steroidogenic factor-1, steroidogenic factor 1, Hsf1, Sf1, NR5A1, Ad4BP, Ftz-F1, HSF-1, FTZF1, FTZ1, HSF 1, nuclear receptor subfamily 5, group A, member 1, Nuclear receptor subfamily 5 group A member 1, NR5A1 p, adrenal 4 binding protein
PPP1R13B	ENSP00000202556	p85, ASPP1, PPP1R13B, Apoptosis Stimulating of P53 Protein 1
GSR	ENSP00000221130	GSR, glutathione reductase, glutathione reductase, glutathione S-reductase, glutathione-disulfide reductase, GluR, glutathione-reductase
CYP4F2	ENSP00000221700	CYP4F2, cytochrome P-450 family 4, cytochrome P450, family 4, subfamily F, polypeptide 2, cytochrome P450 4F2, Cytochrome P450 family 4 subfamily F member 2
CD38	ENSP00000226279	CD38, CD38 molecule, EC 3.2.2.6, CD 38, CD38 antigen, 3 ROP, CD38 human
KCNA5	ENSP00000252321	hCK1, hK2, KCNA5, Kv1.5, hPCN1, potassium voltage-gated channel, shaker-related subfamily, member 5, potassium voltage-gated channel, shakerrelated subfamily, member 5, KCNA5 p, potassium voltage-gated channel subfamily A member 5, Hk-2
MMP7	ENSP00000260227	matrilysin, MMP-7, pump-1, MMP7, Matrix metalloproteinase 7, matrin, Matrix metalloproteinase-7, 1 MMP, 1-MMP, 1 MMR, Matrix metalloproteinase7, matrix metalloproteinase 7, 1MMP, matrix-metalloproteinase-7, matrix metalloproteinase-7

NOX4	ENSP00000263317	renal NAD(P)H oxidase, NOX4, KOX, Renox, KOX 1, KOX1, Nox-4, Nox 4, NADPH oxidase 4, KO X, NADPH oxidase-4, NADPH oxidase4
CDK2	ENSP00000266970	cyclin-dependent kinase 2, CDK2, CDKN2, cyclin-dependent kinase2, 2DS1, cyclin-dependent kinase-2, 2R3R, CDK-2, cyclin dependent kinase 2, 4 CFU, cyclin dependent kinase-2, 4 BCP, 3 EOC, 2 bpm, CDK 2, 3 IgG, 1 HCL
ERBB3	ENSP00000267101	HER3, ErbB3, 3----p 11, erbB-3, 3 p11, 3----p11, c-erbB-3, HER-3, human epidermal growth factor receptor 3, c-erbB3, erb-B-3, h-erb-B-3, MDA-BF-1, p180-ErbB3, Her- 3, c-erb-B3, p45-sErbB3, ERB-B3, human epidermal growth factor receptor-3, receptor tyrosine-protein kinase ErbB3, Tyrosine kinase-type cell surface receptor HER3, Erb-B2 receptor tyrosine kinase 3, Receptor Tyrosine-Protein Kinase ErbB-3, c-erb B3
TJP1	ENSP00000281537	tight junction protein ZO-1, ZO-1, zona occludens-1, zona occludens protein 1, Tjp1, zona occludens protein-1, ZO1, tight junction protein 1, zona occludens 1, zonula occludens protein-1, zonula occludens protein 1, tight junction protein-1, Zo- 1, tight-junction protein ZO-1, zona-occludens-1, tjp-1
ID1	ENSP00000365280	Id1, Id-1, HID1, inhibitor of differentiation 1, DNA-binding protein inhibitor ID1, inhibitor of DNA binding 1, inhibitor of differentiation-1, Inhibitor of DNA binding-1, Inhibitor of DNA-binding-1, DNA-binding protein inhibitor ID-1, inhibitor of DNA-binding 1
SF1	ENSP00000366604	SF-1, SF1, HSF1, ZNF162, ZFM1, HSF-1, D11S636, BBP, mBBP, Splicing factor 1, HSF 1, splicing factor-1, BB p
NOX5	ENSP00000373518	NOX5, NADPH oxidase 5, NADPH oxidase5, NOX-5
CDK1	ENSP00000378699	Cdc2, Cdk1, p34CDC2, cyclin-dependent kinase 1, cdc-2, cyclin dependent kinase 1, cyclin-dependent kinase-1, Cdkn1, cdc 2, CDK-1, cyclin-dependent kinase1, p34 cdc2
CXCL1	ENSP00000379110	CXCL1, Gro-1, melanoma growth-stimulatory activity, Melanoma growth stimulatory activity, MGSA, gro, GRO1, GRO-a, CXCL-1, GRO 1 oncogene, C-X-C motif chemokine 1, chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha, fibroblast secretory protein, CHEMOKINE, chemokine (C-X-C motif) ligand 1 (melanoma growth-stimulating activity, alpha, GROa, F-SP, C-X-C motif chemokine ligand-1, C-X-C motif chemokine ligand 1

ILK	ENSP00000379975	p59, ILK1, ILK, integrin-linked kinase, integrin linked kinase, ILK-2, ILK-1, Integrin-linked protein kinase, p59ILK, HP59, ILK2
ELAVL1	ENSP00000385269	HuR, elav, ELAVL1, MELG, Hu antigen R, ELAV1, Hu-r, Hu-antigen R, ELAV-like protein 1, ELAVL-1, ELAV-like RNA binding protein 1, Hu Antigen-R, ELAV-like RNA-binding protein 1, ELAV-1, ELAV-L1, ELAV like RNA binding protein 1, ELAV like RNA-binding protein 1
FGFR1	ENSP00000393312	FLG, Fgfr1, fibroblast growth factor receptor 1, H-2, FGFR-1, KAL2, fibroblast growth factor receptor-1, hh3, FGF R1, FGFR 1, FGF-R1, FGF-R-1, H2-P, KAL-2, HH2, 1 C vs, fibroblast growth-factor receptor 1, bFGF-r, HH4, FGFR1 p, FLT2, proto-oncogene c-fgr
SLC52A1	ENSP00000399979	PAR2, RFT1, hRFT1, SLC52A1, RFVT1, GPR172B, G protein-coupled receptor 172B, RFT1 p, riboflavin transporter 1, PAR 2, RFT-1, PAR-2, hPar2, hRFVT -1, RFVT-1, hRFVT-1
AGTR1	ENSP00000419422	AT1, AT1R, type 1 angiotensin II receptor, Agtr1b, AT1bR, angiotensin II type 1 receptor, Hat1, angiotensin II receptor type 1, Agtr1a, AT1aR, AT1B, AGTR1, angiotensin II receptor, type 1, angiotensin II type-1 receptor, AT-1, type-1 angiotensin II receptor, angiotensin II type 1-receptor, AT1-R, Angiotensin-II type 1 receptor, AT 1, angiotensin-II type-1 receptor, AT1 R, angiotensin-II receptor type 1, angiotensin-II-type-1 receptor, angiotensin II-type 1 receptor, AT 1R, AGTR1 A, AF245699, AT1a-R, angiotensin II type1 receptor, AT2R1, angiotensin II receptor type-1, hAT1R, AT 1 R, AGT R1, 4YAY, AT-1R, AGTR 1, type 1 angiotensin-II receptor, h AT1
ADAM9	ENSP00000419446	MDC9, MDC-9, ADAM9, meltrin gamma, ADAM metalloproteinase domain 9, metalloprotease/disintegrin/cysteine-rich protein 9, meltrin-gamma, ADAM 9, ADAM-9, disintegrin and metalloproteinase domain-containing protein 9
MUC5B	ENSP00000436812	HMG-1, MUC5B, MG1, HMG1, MUC5, MG-1, mucin 5B, MUC9, MUC-5B
HPGD	ENSP00000296522	PGDH, hPGD, 15-hydroxyprostaglandin dehydrogenase, 15-PGDH, 15-hydroxy-prostaglandin dehydrogenase, 15PGDH, 15-Hydroxyprostaglandin-dehydrogenase, hydroxyprostaglandin dehydrogenase 15-(NAD, PHOAR1, 15-Hydroxy-Prostaglandin-Dehydrogenase, 15-hydroxy prostaglandin dehydrogenase

STAT6	ENSP00000300134	STAT6, IL-4 STAT, STAT-6, Stat6b, Stat6c, signal transducer and activator of transcription-6, signal transducer and activator of transcription 6, STAT 6, IL4-Stat, signal transducer and activator of transcription6, STAT6 C
SPHK1	ENSP00000313681	SPHK1, hSPHK1, SPHK, sphingosine kinase 1, sphingosine kinase-1, SphK-1, sphingosine-kinase-1, Sphingosine-kinase 1, SPHK 1, sphingosine kinase1
KLK3	ENSP00000314151	KLK3, prostate specific antigen, kallikreins, prostate-specific antigen, HK3, p30 antigen, prostate-specific-antigen, KLK 3, aPS, hKLK3, kallikrein 3, Psa, gamma-seminoprotein, kallikrein-related peptidase 3, kallikrein-related peptidase-3, 2PSA, 2 PSA, kallikrein related peptidase 3, prostate - specific antigen, prostate- specific antigen, Prostate Specific-Antigen
EIF4EBP1	ENSP00000340691	4E-BP1, BP1, BP-1, PHAS-I, Eif4ebp1, 4EBP1, eukaryotic translation initiation factor 4E binding protein 1, BP 1, 4EBP-1, 4E-BP-1, eukaryotic translation initiation factor 4E binding protein-1, EIF4E-BP1, eukaryotic translation initiation factor 4E-binding protein 1, B P1, 4E- BP1, 4-EBP1, eukaryotic translation initiation factor 4E binding protein1
FOXM1	ENSP00000342307	HNF3, Foxm1b, FoxM1, Ins-1, HNF-3, HFH-11, MPM2-reactive phosphoprotein 2, MPP2, FKHL16, M phase phosphoprotein 2, Forkhead box M1, MPP-2, TGT3, INS1, Forkhead box protein M1, Forkhead boxM1, Fork head box M1, Forkheadbox protein M1
MAP3K5	ENSP00000351908	ASK1, apoptosis signal-regulating kinase-1, apoptosis signal-regulating kinase 1, MAPKKK5, MAP3K5, apoptosis-signal regulating kinase-1, ASK-1, MEKK5, Apoptosis signal-regulating kinase1, Apoptosis-signal-regulating-kinase-1, apoptosis signal regulating kinase 1, mitogen-activated protein kinase kinase kinase-5, Apoptosis signal regulating kinase-1, apoptosis-signal-regulating kinase 1
TFRC	ENSP00000353224	Trfr, TfR, transferrin receptor, p90, TfR1, CD71, Tfrc, hT9, transferrin-receptor, Tf-R, cd 71, TfR-1, hTfR1, HT-9, transferrin receptor protein 1
UTRN	ENSP00000356515	Utrophin, DRP-1, Drp1, UTRN, d RP, Drp

DNTT	ENSP00000360216	terminal deoxynucleotidyltransferase, TdT, terminal deoxynucleotidyl transferase, EC 2.7.7.31, DNTT, terminal-deoxynucleotidyl-transferase, terminal deoxynucleotidyl-transferase, terminal-deoxynucleotidyl transferase, terminal deoxy-nucleotidyl transferase, terminaldeoxynucleotidyl transferase, terminal deoxynucleotidyl trans-ferase
TFF1	ENSP00000291527	PS2, TFF1, HPS2, BCEI, PS-2, pNR-2, HPS-2, trefoil factor 1, PS -2, BCE I, Ps 2, protein pS2, TFF-1, Trefoil factor-1, BCE-I, TFF 1
CIP2A	ENSP00000295746	p90, CIP2A, Cancerous Inhibitor of PP2A, KIAA1524, p90 autoantigen, CIP2A p
PSMD1	ENSP00000309474	S1P, RPN2, Psmd1, p112, S-1-P, hRpn2
CD34	ENSP00000310036	CD34, CD34 antigen, hCD34, CD 34, hematopoietic progenitor cell antigen CD34, CD-34, CD34 molecule, CD 34 antigen, CD34- human, CD3-4
KLK2	ENSP00000313581	KLK2, HK2, glandular kallikrein-1, kallikrein 2, kallikreins, hGK-1, hKLK2, kallikrein-2, glandular kallikrein 1, KLK-2, kallikrein-related peptidase 2, KLK 2, Hk-2, hGK1
TAC1	ENSP00000321106	substance P, NK2, neurokinin-1, substance K, Neurokinin 1, Tac2, tac1, nk-2, neurokinin A, preprotachykinin, substance-P, NKA, neurokinin-2, 4 h OM, protachykinin-1, neurokinin 2, neurokinin1, HNK2, neuropeptide K, neuropeptide gamma, N-Pk, Protachykinin, tachykinin precursor 1, pPT, tachykinin, precursor 1, Tac 1, Pp T, protachykinin 1, TAC-2
HSPA5	ENSP00000324173	GRP78, Hspa5, 78 kDa glucose-regulated protein, MIF2, 78-kDa glucose-regulated protein, GRP-78, Bip, immunoglobulin heavy-chain binding protein, MIF-2, 78-kDa glucose regulated protein, heat shock 70-kDa protein 5, 78kDa glucose-regulated protein, immunoglobulin heavy chain binding protein, Heat shock 70 kDa protein 5, immunoglobulin heavy chain-binding protein, 3 LDL, 78 kDa glucose regulated protein, GRP 78, immunoglobulin-heavy-chain-binding protein, heat shock 70 kDa proteins, glucose regulated protein, 78kDa, glucose regulated protein, 78 kDa, heatshock 70-kDa protein 5, 78kDa glucose regulated protein, immunoglobulin heavy-chain-binding protein, heat shock protein family A member 5, Heat Shock Protein Family A (Hsp70) Member 5, glucose-regulated protein, 78kDa

PMAIP1	ENSP00000326119	Noxa, PMAIP1, protein NOXA, phorbol-12-myristate-13-acetate-induced protein 1, PMAIP-1, phorbol 12-myristate 13-acetate induced protein 1, aPR
LEPR	ENSP00000330393	LEPR, ObR, leptin receptor, OB-R, leptin-receptor, OB receptor, Ob-receptor, HuB219, Lep-R
SELE	ENSP00000331736	E-selectin, ELAM-1, endothelial-leukocyte adhesion molecule 1, ELAM, endothelial leukocyte adhesion molecule-1, endothelial leukocyte adhesion molecule 1, SELE, endothelial-leukocyte-adhesion-molecule-1, CD62E, endothelial-leukocyte adhesion molecule-1, selectin E, endothelial adhesion molecule-1, endothelial leukocyte-adhesion molecule-1, E-sel, E-selectin, E selectin, selectine, CD62 E, ESEL, endothelial adhesion molecule 1, SEL-E
MAPK11	ENSP00000333685	p38beta, p38-2, p38 beta 2, p38beta2, SAPK2, MAPK11, SAPK2b, p38-beta
SMAD4	ENSP00000341551	SMAD4, MADH4, Smad family, JIP, DPC4, SMAD-4, DPC-4, Smad 4, hSmad4, mothers against decapentaplegic homolog 4, 1U7F, SMAD family member 4, SMAD family member 4, SMAD4 p
MBTPS1	ENSP00000344223	Site-1 protease, S1P, Mbtps1, site-1-protease, SKI-1, membrane-bound transcription factor peptidase, site 1, S-1-P, site 1 protease, subtilisin-kexin isozyme-1, subtilisin/kexin-isozyme-1, Subtilisin Kexin Isozyme-1, subtilisin/kexin-isozyme 1
AP2A1	ENSP00000351926	AP-2 alpha, alpha-Adaptin A, AP-2alpha, AP2 alpha, AP2alpha, AP2A1, AP2-alpha, alpha 1 adaptin
P2RX4	ENSP00000353032	P2X4, P2rx4, ATP receptor, purinergic receptor, P2X4R, purinergic receptor P2X4, Purinergic receptor P2X 4, P2X purinoceptor 4
DUSP12	ENSP00000356920	YVH1, serine/threonine-specific protein phosphatase, DUSP1, dual-specificity phosphatase 12, DUSP12, DUSP-1, Dual Specificity Phosphatase 12
RUNX2	ENSP00000360493	CBFA1, Runx2, Ccd1, Runt-related transcription factor 2, Ccd, OSF2, AML3, Runx-2, Cbfa-1, runt-related transcription factor-2, AML-3, OSF-2, RUNX2 p, runt related transcription factor 2, Runx 2, runt-related transcription factor2

HDAC1	ENSP00000362649	Rpd3, histone deacetylase-1, HDAC1, NuRD complex, Sin3 histone deacetylase complex, HD1, HDAC-1, Rpd3p, histone deacetylase 1, RPD3L1, HDAC1p, hRPD3, hHDAC1, HDAC 1, HD-1, EMSY Complex, histone deacetylase1, histone-deacetylase 1
GRB2	ENSP00000376345	GRB2, Grb-2, protein ASH, growth factor receptor-bound protein 2, growth factor receptor bound protein 2, growth factor receptor bound protein-2, Grb3-3, 2 VWF, adapter protein Grb2, 3 in 7, Growth factor receptor-bound protein-2, 3 in 8
HOOK2	ENSP00000380785	HK2, HOOK2, hook 2, Hk-2
KIF2A	ENSP00000385000	hK2, KIF2A, KIF2, Kinesin-2, kinesin 2, KNS2, kinesin heavy chain member 2, Kinesin family member 2a, Hk-2
TBC1D9	ENSP00000411197	MDR-1, MDR1, MDR1 P, mdr 1, MDR1-P, TBC1D9, MDR-1 P, MDR-1, MDR1p, hMDR1
CASR	ENSP00000420194	CASR, calcium-sensing receptor, Ca-SR, calcium sensing receptor, extracellular calcium-sensing receptor, Gprc2a, PCAR1, extracellular calcium sensing receptor, U20759, hCaSR, calcium- sensing receptor, Ca SR, calcium -sensing receptor
PECAM1	ENSP00000457421	PECAM-1, CD31, platelet endothelial cell adhesion molecule, GPIIa, PECAM1, CD-31, platelet-endothelial cell adhesion molecule, platelet/endothelial cell adhesion molecule-1, PE-CAM-1, platelet/endothelial cell adhesion molecule 1, CD 31, CD31 antigen, platelet/ endothelial cell adhesion molecule 1, platelet/ endothelial cell adhesion molecule-1
TRPV1	ENSP00000459962	VR1, vanilloid receptor-1, TRPV1, HVR1, vanilloid receptor 1, CARKL, capsaicin receptor, transient receptor potential cation channel, subfamily V, member 1, vanilloid receptor subtype 1, capsaicin-receptor, Vanilloid receptor subtype-1, transient receptor potential cation channel subfamily V member 1, HVR 1, HVR-1, VR-1, hTRPV1, TRPV-1, SHPK, TRPV 1, SHK, transient receptor potential cation channel subfamily V member1

TRPV1	ENSP00000461007	vanilloid receptor subtype 1, vanilloid receptor-1, capsaicin receptor, VR1, TRPV1, HVR1, Vanilloid receptor subtype-1, Vanilloid Receptor 1, transient receptor potential cation channel, subfamily V, member 1, capsaicin-receptor, transient receptor potential cation channel subfamily V member 1, HVR 1, HVR-1, VR-1, hTRPV1, TRPV-1, TRPV 1, transient receptor potential cation channel subfamily V member1
VEGFC	ENSP00000480043	Vegf-C, Vegfc, Flt4 ligand, VEGF family, vascular endothelial growth factor-C, Vascular endothelial growth factor C, Vascular endothelial growth factor-related protein, VEGF-family, VEGF C, vascular endothelial growth factor C, VEGF -C
CETP	ENSP00000200676	Cholesteryl ester transfer protein, CETP, cholesteryl-ester transfer protein, cholesteryl-ester-transfer protein, cholesterylester transfer protein, Cholesteryl ester-transfer protein, cholesteryl ester transfer protein, plasma, cholesteryl-ester-transfer-protein, Ce-tP
XRCC1	ENSP00000262887	XRCC1, Xrcc-1, X-ray repair cross-complementing protein 1, X-ray repair cross-complementing 1, X-Ray Repair Cross Complementing 1, XRCC 1, X-ray repair cross-complementing-1, x-ray repair complementing defective repair in Chinese hamster cells 1, X-ray repair cross complementing protein 1, X-ray repair crosscomplementing1, DNA repair protein XRCC1
IL1A	ENSP00000263339	IL-1, interleukin-1alpha, IL-1alpha, IL1A, IL-1 alpha, IL1, interleukin-1 alpha, interleukin 1 alpha, IL-1a, interleukin 1alpha, IL1alpha, hematopoietin 1, IL-1-alpha, interleukin 1A, hIL-1, interleukin-1A, Interleukin-1--a, interleukin 1-alpha, IL1 alpha, interleukin -1alpha, IL1-A, IL 1, I-L1alpha, IL -1, interleukin-1 A, hIL1, h IL-1, interleukin-1-alpha, IL1-alpha
NOTCH3	ENSP00000263388	Notch3, NOTCH 3, Notch-3, Notch homolog 3, neurogenic locus notch homolog protein 3
AIP	ENSP00000279146	aryl hydrocarbon receptor-interacting protein, aryl hydrocarbon receptor interacting protein, XAP2, ARA9, 4 apo, Ah receptor-interacting protein, Aip, aryl-hydrocarbon receptor interacting protein, aryl-hydrocarbon-receptor interacting protein, HGNC:358, aryl-hydrocarbon receptor-interacting protein, AI P
MIR1433P	hsa-miR-143-3p	miR-143, Mir143, hsa-miR-143, miR-143-3p, hsa-miR-143-3p, miR-143 -3p, miR- 143-3p

MIR146A5P	hsa-miR-146a-5p	miR-146, miR-146a, hsa-mir-146a, miR146a, hsa-miR-146, hsa-mir146a, mir-146a-5p, miR146, Hsa-miR-146a-5p, miR- 146a, miR-146a- 5p, miR -146a, hsamiR-146a-5p, miR--146a, miR-146-a
TNFSF13B	ENSP00000365048	TALL-1, BAFF, BLyS, TNFSF20, zTNF4, B lymphocyte stimulator, B cell-activating factor, B-cell activating factor, B-cell-activating factor, Tnfsf13b, tumor necrosis factor superfamily, B cell activating factor, B-lymphocyte stimulator, tumor-necrosis factor superfamily, tumor necrosis factor super-family, CD257, DTL, tumor necrosis factor-superfamily, B-cell-activating-factor, TNF superfamily member 13b, BAF, tumor necrosis factor super family
IGFBP3	ENSP00000370473	IGFBP-3, insulin-like growth factor-binding protein-3, IGF-binding protein-3, IGFBP3, insulin-like growth factor binding protein-3, IGF binding protein-3, insulinlike growth factor-binding protein-3, IGF binding protein 3, insulin-like growth factor-binding protein 3, BP-53, IGF-BP3, IGFBP3 -202, insulin-like growth factor binding protein 3, IGF-binding protein 3, Bp 53, Bp53, hIGFBP-3, IGFBP-3 -202, insulinlike growth factor binding protein-3, IGFBP 3, IGFBP 3 -202, insulin-like growth-factor-binding protein-3, insulin like growth factor-binding protein 3, IGFbinding protein 3, insulinlike growth factor binding protein 3, IGFBP-3-202, IGF BP-3, Insulin Like Growth Factor Binding Protein-3, IBP3, IGFBP - 3, insulin like growth factor binding protein 3, insulin-like-growth-factor-binding-protein-3
CD9	ENSP00000371958	p24, CD9, MRP1, Hb A2, HBA2, MRP-1, BA-2, CD9 antigen, motility-related protein, Motility-Related Protein 1, CD9 molecule, motility-related protein-1, CD-9, motility related protein-1, P24P, MRP 1, P2 4, TSPAN29, MIC3, HP24, Hb-A2, Motility related protein 1
LTB4R2	ENSP00000445772	BLTR2, BLT2, Nop9, JULF2, Leukotriene B4 receptor BLT2, leukotriene B4 receptor-2, leukotriene B4 receptor 2, LTB4R2
IKBKE	ENSP00000464030	IKK-i, inducible IkappaB kinase, IKKi, IKBKE, inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon, Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase epsilon, inhibitor of nuclear factor kappa-B kinase subunit epsilon, Inhibitor of Nuclear Factor Kappa B Kinase Subunit Epsilon

KRT16	ENSP00000301653	PC-1, HPC1, KRT16, Pc 1, keratin 16, CK16, Pc1, KRT16A, HPC-1, CK 16, cytokeratin 16, cytokeratin-16, keratin-16, keratin16
PGR	ENSP00000325120	progesterone receptor, PGR, Progesterone-receptor, p-GR
BGN	ENSP00000327336	biglycan, BGN, PGI, Pg I, PG-I, DS-PG-1, PG-S1, PGS1, biglycan proteoglycan
SNCA	ENSP00000338345	alpha-synuclein, PD-1, SNCA, PARK1, alpha synuclein, PD1, hPD-1, alpha -synuclein, 3----q26, PARK4, non-A beta component of AD amyloid, PARK 1, non-Abeta component of AD amyloid, PD 1, alpha- synuclein, 1XQ8, synuclein-a, synuclein alpha, synuclein--a, Alpha - synuclein, hPD1, Non A4 Component of Amyloid Precursor, PD- 1, alphasynuclein
C1QTNF6	ENSP00000338812	C1QTNF6, CTRP6
PTK2	ENSP00000341189	FAK, Fadk, pp125FAK, p125fak, FRNK, focal adhesion kinase-related nonkinase, protein tyrosine kinase 2, FAK1, PTK2 protein tyrosine kinase 2, Focal Adhesion Kinase 1, Focal Adhesion Kinase-1, 4 EBV
BTG3	ENSP00000344609	BTG3, APRO4, ANA/BTG3
MDM4	ENSP00000356150	MDMX, MRP1, HdmX, MDM4, protein MDM4, hMRP1, MRP-1, MRP1 p, protein Mdmx, Mdm4 p53 binding protein homolog, MRP 1, MDM-4, double minute 4 protein
RBP4	ENSP00000360522	retinol binding protein-4, plasma retinol-binding protein, retinol binding protein 4, RBP4, Rbp-4, Retinol-binding protein 4, plasma retinol binding protein, lipocalins, Retinol-binding protein-4, plasma retinol binding-protein, Retinol-binding protein4, retinol binding protein -4, retinol-binding-protein-4, RBP 4, RBP -4, retinol binding-protein-4
NCOA3	ENSP00000361066	RAC3, pCIP, AIB1, SRC-3, TRAM-1, ACTR, AIB-1, SRC3, p/CIP, NCOA3, thyroid hormone receptor activator molecule 1, NCoA-3, RAC 3, RAC-3, nuclear receptor coactivator 3, TRAM1, nuclear receptor coactivator-3, nuclear receptor co-activator-3, receptor-associated coactivator 3, CBP-interacting protein

NGFR	ENSP00000172229	p75NTR, p75(NTR, nerve growth factor receptor, NGFR, CD271, low affinity neurotrophin receptor p75NTR, low-affinity nerve growth factor receptor, nerve-growth-factor receptor, Low-affinity nerve-growth factor receptor, NGF-R, low-affinity neurotrophin receptor p75NTR, p75 NTR, p75 (NTR, tumor necrosis factor receptor superfamily member 16, NGF R, CD-271, p75 ICD, low affinity nerve growth factor receptor
APEX1	ENSP00000216714	HAP-1, APE1, Ref-1, M99703, HAP1, APX, APEX nuclease, APE-1, h-APE-1, ref1, redox factor-1, redox factor 1, Ref 1, APEX1, APEX nuclease 1, APEX nuclease (multifunctional DNA repair enzyme) 1, apurinic-apyrimidinic endonuclease 1, apurinic apyrimidinic endonuclease 1, APE 1, apurinic/apyrimidinic endodeoxyribonuclease 1, 1dE9, hAPE1
SETX	ENSP00000224140	Sen1p, senataxin, AOA2, SETX, SCAR1, KIAA0625, AOA 2, AOA-2, Sen1
CMA1	ENSP00000250378	chymase, MCT1, MCT-1, CMA1, chymase-1, chymase 1, mast cell protease I
CCNB1	ENSP00000256442	cyclin B1, cyclinB1, CCNB1, Ccnb, cyclin-B1, G2/mitotic-specific cyclin B1, G2/mitotic-specific cyclin-B1, G2/mitotic-specific cyclinB1, Ccnb-1
SMAD7	ENSP00000262158	Smad7, Smad family, MADH7, Smad 7, mothers against decapentaplegic homolog 7, Smad-7, mothers against decapentaplegic homolog7, smad family member 7
MSH3	ENSP00000265081	Msh3, dup, MRP1, hMSH3, MutS homolog 3, MutS homologs, mismatch repair protein 1, hMRP1, MRP-1, Msh3p, MRP1 p, MSH-3, MRP 1, FAP-4
SLC5A1	ENSP00000266088	hSGLT1, SGLT1, SLC5A1, SGLT-1, sodium/glucose cotransporter 1, sodium/glucose cotransporter-1, nagt, sodium/glucose cotransporter-1, SGLT 1
IQGAP1	ENSP00000268182	IQGAP1, Sar1, p195, IQ motif-containing GTPase-activating protein 1, Sar1p, IQ motif-containingGTPase-activatingprotein1, IQ motif containing GTPase activating protein 1, IQGAP-1, Ras GTPase-activating-like protein IQGAP1, IQ motif-containing GTPase activating protein 1, IQ motif containing GTPase-activating protein 1, IQ-motif containing GTPase activating protein 1
CCNA2	ENSP00000274026	cyclin A2, Cyclin A, CCN1, cyclinA, cyclin-A, Ccna2, Ccn1p, cyclinA2, 4 CFU, CCNA, cyclin-A2, 4 BCP, Ccn 1, 3 EOC, 2 bpm

SLC12A9	ENSP00000275730	Cip1, SLC12A9, cation-chloride cotransporter interacting protein, CIP-1
KIT	ENSP00000288135	c-kit, KIT, SCF-R, CD117, proto-oncogene c-kit, protooncogene c-kit, cKit, p145c-kit, SCFR, CD-117, CD 117, c- kit, tyrosine protein kinase Kit, v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog, tyrosine-protein kinase Kit, KIT proto-oncogene receptor tyrosine kinase, mast/stem cell growth factor receptor KIT
RIPK3	ENSP00000216274	RIP3, RIPK3, receptor-interacting protein 3, receptor-interacting serine-threonine kinase 3, receptor interacting protein 3, RIP 3, receptor-interacting serine/threonine-protein kinase 3, receptor interacting serine/threonine kinase 3, RIPK-3, Receptor-interacting serine/threonine protein kinase-3, Receptor-interacting serine/threonine kinase 3, receptor interacting serine/threonine-protein kinase-3, receptor-interacting serine/threonine protein kinase 3, receptor-interacting protein-3, receptor-interacting serine/threonine-protein kinase-3
TNFRSF10A	ENSP00000221132	DR4, TNFRSF10A, TRAIL-R1, death receptor 4, APO2, death receptor-4, DR-4, TNF-related apoptosis inducing ligand receptor-1, DR 4, TRAILR1, tumor necrosis factor receptor superfamily, member 10a, Apo 2, TRAILR-1, TRAIL R1, tumor necrosis factor receptor superfamily member 10A, TNF receptor superfamily member 10a, TNF-Related Apoptosis-Inducing Ligand Receptor 1
EPO	ENSP00000252723	erythropoietin, Epoetin, Epo, Epo human
ENPP2	ENSP00000259486	autotaxin, PD-I alpha, ATX, Pdn2, NPP2, PD-Ialpha, NPP-2, E-NPP2, lysoPLD, ENPP2, ecto-nucleotide pyrophosphatase/phosphodiesterase 2, extracellular lysophospholipase D, lyso PLD, Ectonucleotide Pyrophosphatase/Phosphodiesterase 2, lyso-PLD, ENPP-2, ectonucleotide pyrophosphatase/phosphodiesterase-2
SULF1	ENSP00000260128	HSulf-1, SULF1, hSulf1, sulfatase 1, Sulf-1, sulfatase-1, sulfatase1
DAPK2	ENSP00000261891	DRP-1, Drp1, DAPK2, death-associated protein kinase 2, death-associated protein kinases, 2A2A
TYR	ENSP00000263321	tyrosinase, TYR, EC 1.14.18.1, CMM8, TYRL, oculocutaneous albinism I-A, EC 1.14.-18.1
CERS2	ENSP00000271688	LASS2, Cers2, ceramide synthase 2, tmsg-1, LAG1 homolog, ceramide synthase 2, TMSG1, L3P, CerS-2

SKP2	ENSP00000274255	SKP2, S-phase kinase-associated protein 2, p45, F-box protein SKP2, F box protein SKP2, p45Skp2, Fbl1, S-phase kinase associated protein 2, S-phase kinase associated protein-2, S-phase kinase-associated protein-2, Skp-2, S phase kinase-associated protein 2, S phase kinase-associated protein2, SKP 2, S phase kinase associated protein 2, FBXL1, S-phase kinase-associated protein2
IFNA1	ENSP00000276927	IFN-alpha, IFNalpha, IFN alpha, Ifna13, IFNA1, interferon alpha 1, interferon-alpha 1, Ifn, IFN -alpha, interferon alpha 1b, IFN- alpha, interferon-alpha1, interferon-alpha1b, IFN-alpha1b
PAK1	ENSP00000278568	PAK1, p21-Activated Kinase 1, p65PAK, PAK-1, alpha-PAK, PAK 1, p21-activated kinase-1, hPAK1, Pak1p, p-21-activated kinase 1, P21 protein (Cdc42/Rac)-activated kinase 1, P-21 activated kinase 1, p21 protein-activated kinase 1, p-21 activated kinase-1, P21 activated kinase-1, P21 activated kinase 1, P21-activated kinase1, 6b-16
DUSP6	ENSP00000279488	DUSP6, MKP-3, Pyst1, MKP3, dual specificity phosphatase 6, dual-specificity phosphatase 6, mitogen-activated protein kinase phosphatase-3, mitogen-activated protein kinase phosphatase 3, dual specificity protein phosphatase 6, dual specificity phosphatase-6, dual-specificity protein phosphatase 6
DENR	ENSP00000280557	DRP-1, Drp1, density-regulated protein, drp, DENR, density regulated protein, protein DRP1, d RP, density-regulated re-initiation and release factor
ANK3	ENSP00000280772	ankyrin-G, ANK3, ankyrinG, ankyrin G, ankyrin3, Ankyrin 3, ankyrin 3, node of Ranvier, ankyrin-3
PTH	ENSP00000282091	PTH, parathyroid hormone, parathormone, PreproPTH, prepro-PTH, parathyroid hormone 1, preproparathyroid hormone, hPTH1, pTH-1, Pre-proparathyroid hormone, parathyroid-hormone, PTH1, PTH 1, pre-pro-PTH, P-TH, hPTH 1, parathyrin
MRAS	ENSP00000289104	M-Ras, MRAS, R-ras3, muscle RAS oncogene homolog, RRAS3
TRPM2	ENSP00000381023	TrpC7, LTRPC2, TRPM2, TRPM-2, long transient receptor potential channel 2, Transient receptor potential melastatin 2, transient receptor potential cation channel, subfamily M, member 2, TRPM 2, transient receptor potential melastatin-2, NUDT9-H, Transient receptor potential channel 7, transient receptor potential cation channel subfamily M member 2

MARK2	ENSP00000385751	PAR-1, PAR1, Par-1b, protein serine/threonine kinase, EMK1, ELKL Motif Kinase, serine/ threonine kinase, serine/threonine-kinase, protein-serine/threonine kinase, ELKL motif kinase 1, MARK2, Mark-2, Par 1, Serine/Threonine kinase, serine / threonine kinase, PAR1b, Microtubule affinity-regulating kinase 2, HEMK1, serine/threonine protein kinase MARK2
SETD2	ENSP00000386759	HIF-1, HIP-1, HIP1, p231HBP, Huntingtin-interacting protein 1, SET2, SETD2, HYPB, Huntingtin interacting protein 1, HBP231, HSPC069, huntingtin-interacting protein-1, HIF1, SET domain containing 2, histone-lysine N-methyltransferase SETD2, huntingtin interacting protein B, SET domain-containing protein 2, Huntingtin interacting protein-1, SET-2, SET domain containing protein 2, KMT3A, 4H12, Set domain-containing 2, L-LS, SET-domain-containing 2
NTF3	ENSP00000397297	NT-3, neurotrophin-3, Neurotrophin 3, NTF3, HDNF, NGF-2, NT3, nerve growth factor-2, nt -3, nerve growth factor 2, NTF-3, hNT-3, hNT3, neurotrophic-factor, NEUROTROPHIC FACTOR, NT 3
CCN1	ENSP00000398736	cyr61, CCN1, GIG-1, cysteine-rich angiogenic inducer 61, Ccn1p, IGFBP-10, Cyr 61, protein CYR61, cysteine-rich, angiogenic inducer, 61, CYR-61, cysteine-rich, angiogenic-inducer, 61, Ccn 1, CCN family member 1, C ysteine-rich angiogenic inducer 61, Cysteine Rich Angiogenic Inducer 61, cysteine-rich angiogenic inducer-61
SHC1	ENSP00000401303	Shc, p66, Shc1, SHCA, SHC-1, SHC-transforming protein 1, 1-shC, sh-C, SHC Adaptor Protein 1
SLCO6A1	ENSP00000421339	GST, gonad-specific transporter, G St, OATP6A1, SLCO6A1, Organic Anion Transporting Polypeptide 6A1, CT48, HCT48
GSTK1	ENSP00000431049	GST, hGSTK1, G St, GSTK1, GSTK1-1, Glutathione S-transferase kappa 1
APOA5	ENSP00000445002	APOAV, APOA5, apo-AV, apolipoprotein A5, apolipoprotein A-V, apolipoprotein AV, apoA-V, APO A-V, Apo A5, hApoA5, APOA5 p, apolipoprotein-A5, Apo AV

FPR2	ENSP00000468897	formyl peptide receptor-like 1, FPRL1, Fpr2, Rfp, ALXR, FPRL-1, formyl peptide receptor like-1, formylpeptide receptor-like-1, FPRH1, FPRH2, formyl peptide receptors, lipoxin A4 receptor, HM63, formyl-peptide receptor-like 1, Formyl peptide-receptor like-1, formyl peptide receptor-2, formylpeptide receptors, formyl-peptide-receptor like-1, formyl peptide receptor 2, formyl-peptide-receptor-like 1, formyl peptide receptor2, formyl-peptide receptor 2, Formyl-peptide Receptors, Formyl-peptide receptor-2, R-FP, N-formyl peptide receptor 2
GRIN2B	ENSP00000477455	NR2B, GRIN2B, GluN2B, NR3, NMDAR2B, hNMDAR2B, glutamate receptor, ionotropic, N-methyl-D-aspartate 2B, hNR2B, glutamate receptor, ionotropic, N-methyl- d-aspartate 2B, N-methyl D-aspartate receptor subtype 2B, N-methyl-D-aspartate receptor subtype 2B, NMDAR 2B, glutamate ionotropic receptor NMDA-type subunit 2B
TMEM37	ENSP00000303148	PR-1, hpr-1, Pr1, Hpr1, Tmem37, HP-R1
UGT1A6	ENSP00000303174	UGT1A1, HUGT1, Gnt-1, UGT1, UDPGT, HlugP1, ugt1a6, GNT1, UGT-1, HLUG P1, UGT1-A1, hUGT1A1, UGT1 A1, UGT 1A1, UDP-glucuronosyltransferase 1A6, UGT-1A1, UDP glucuronosyltransferase 1A6, UGT1A 1
CRMP1	ENSP00000321606	DRP-1, CRMP1, DRP1, CRMP-1, collapsin response mediator protein 1, Collapsin Response Mediator Protein-1, CRMP 1, collapsin response mediator Protein1, collapsin-response mediator protein 1, DPYSL1
CYP2B6	ENSP00000324648	CYP2B6, P-450, CYP2B, IIB1, P-450p, hIIB1, cytochrome P4502B6, P450p, Cytochrome P450 2B6, 3 IBD, cytochrome P450 family 2 subfamily B member 6, 4R RT, CYP2B7
NME1	ENSP00000337060	nm23-H1, NM23, granzyme A-activated DNase, awd, NDPK-A, NME1, nm-23-H1, nucleoside diphosphate kinase A, NM23H1, NDK-A, Nm-23, A-WD, NDPK A, NDKA, NM 23, nucleoside diphosphate kinase--a, nm-23H1, nucleoside-diphosphate kinase A, NDPKA, nucleoside diphosphate kinase-A, Nme-1, NME/NM23 nucleoside diphosphate kinase 1, gaad, NDP-K A, Nm23H-1, nm23 H-1, nm 23-H1, nm23 H1, NM-23 H1, nm23-H 1
FGFR3	ENSP00000339824	fibroblast growth factor receptor 3, FGFR3, fibroblast growth factor-receptor 3, FGFR-3, FGFR 3, fibroblast growth-factor receptor 3, fibroblast growth factor receptor-3, fibro-blast growth factor receptor 3, FGF-R3, FGFR3 p, Fibroblast Growth Factor Receptor3, FGF-R-3, hFGFR3, Cek2

OCLN	ENSP00000347379	occludin, OCLN
FAS	ENSP00000347979	CD95, TNFRSF6, APO-1, APT1, tumor necrosis factor receptor superfamily, member 6, APO1, CD-95, Fas-1, APO-1 antigen, CD 95, Apo- 1, tumor necrosis factor receptor super family member 6, FAS1, TN-FRSF6, tumor necrosis factor receptor superfamily member 6, TNFRSF-6, FAS -1, TNF receptor superfamily member 6, Fas cell surface death receptor, Fas 1, APO-1-antigen, CD9 5
DIRAS3	ENSP00000360020	ARHI, DIRAS3, NOEY2, AR HI, ras homolog gene family, member I, Distinct subgroup of the Ras family member 3, DIRAS family GTPase 3
GADD45A	ENSP00000360025	gadd45, GADD45a, GADD 45, growth arrest and DNA-damage-inducible, alpha, Growth arrest and DNA damage inducible, alpha, GADD-45, DDIT1, growth arrest and DNA-damage-inducible alpha, growth arrest and DNA damage inducible alpha
EDN2	ENSP00000361668	ET-2, endothelin 2, ET2, endothelin-2, EDN2
DKK1	ENSP00000363081	hDkk-1, DKK1, dkk-1, dickkopf homolog 1, Dickkopf-related protein 1, dickkopf-homolog-1, Dickkopf-homolog 1, dickkopf 1 homolog, dickkopf WNT signaling pathway inhibitor-1, dickkopf WNT signaling pathway inhibitor 1, dickkopf related protein 1, Dickkopf-related-protein 1, dickkopf-related protein-1, hDKK1, Dick Kopf-related protein1
MALAT1	MALAT1	MALAT-1, MALAT1, NEAT2
RNU1-75P	U1	HSD1, Hu1, HSD6, HSD7, Hu-1, HSD2, RNU1, HSD-1, HSD-2, HSD 1, HSD5, RNU12, HU11, HSD 2, HSD4
IL31	ENSP00000366234	IL-31, Interleukin 31, interleukin-31, IL31
CYBB	ENSP00000367851	gp91-phox, CYBB, gp91phox, gp91 phox, NOX2, gp91-1, gp-91phox, gp 91phox, gp91- phox, NOX-2, NOX 2, NADPH oxidase 2, NADPH oxidase-2, cytochrome b-245 heavy-chain, NADPH oxidase2, NADPH-oxidase 2, Cytochrome b-245 heavy chain, Cytochrome B-245, Beta Polypeptide, cytochrome b-245 beta chain
KL	ENSP00000369442	klotho, EC 3.2.1.31
CDX2	ENSP00000370408	Cdx2, Cdx-2, CDX3, CDX-3, homeobox protein CDX2, caudal type homeobox transcription factor 2, caudal type homeo box transcription factor 2, caudal-type homeobox transcription factor 2, CDX2P, Caudal-type homeobox 2, caudal type homeobox 2, CDX2 human, homeobox protein CDX-2, caudal-type homeobox protein 2, Caudal-type homeobox-2

SIRT3	ENSP00000372191	hSIRT3, sirtuins, SIRT3, sirtuin, 3 Glu, Sirtuin 3, Sirtuin-3, SIRT 3, Sirtuin3, SIRT-3, SIRT3-p
IL24	ENSP00000375795	mda-7, Interleukin 24, IL-24, ST16, IL24, interleukin-24, MOB-5, c49a, mda7, Melanoma differentiation-associated gene-7 protein, IL- 24, hIL-24, hIL24, mda- 7, Il10b, interleukin- 24, IL-10-B, Hmda-7, IL-10B
SNAI2	ENSP00000380034	snail2, SNAI2, Slug, Slugh, snail homolog 2, zinc finger protein SNAI2, Snail 2, snail-2, snail family zinc finger 2, Snail Family Transcriptional Repressor 2, SNAI 2
DYRK1A	ENSP00000381932	DYRK1A, DYRK, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1a, DYRK1, mnb, dual specificity tyrosine phosphorylation-regulated kinase 1A, dual-specificity tyrosine-phosphorylation-regulated kinase 1A, dual-specificity Yak1-related kinase, DYRK-1A, Dual-specificity tyrosine(Y)-phosphorylation regulated kinase 1A, dual-specificity tyrosine phosphorylation-regulated kinase 1A, dual-specificity tyrosine(Y)-phosphorylation-regulated kinase 1A, dual-specificity tyrosine-(Y) phosphorylation-regulated kinase 1A, dual-specificity tyrosine (Y)-phosphorylation-regulated kinase 1A, dual-specificity tyrosine (Y) phosphorylation-regulated kinase 1A, Dual specificity tyrosine phosphorylation regulated kinase-1A, dual specificity tyrosine-phosphorylation-regulated kinase 1A, dual specificity tyrosine (Y) phosphorylation regulated kinase 1A, Dual-specificity tyrosine-(Y)-phosphorylation-regulated kinase 1 A, Dual-Specificity Tyrosine-Phosphorylation Regulated Kinase 1A, dual-specificity tyrosine phosphorylation-regulated kinase-1A, dual specificity tyrosine phosphorylation regulated kinase 1A, Dual specificity tyrosine phosphorylation regulated kinase1A, dual-specificity tyrosine phosphorylation regulated kinase 1A, dual specificity tyrosine phosphorylation-regulated kinase 1 A
MAP3K1	ENSP00000382423	MEKK-1, MEKK1, MAP3K1, MEKK, MAPK/ERK kinase kinase 1, mitogen-activated protein kinase kinase kinase 1, MEKK-1-p
APLN	ENSP00000391800	apelin, Apln
DCTN4	ENSP00000414906	p62, dynactin subunit p62, dynactin 4, DCTN4, dynactin-4, p-62, dynactin subunit 4
CDK5	ENSP00000419782	Cdk5, Cyclin-dependent kinase 5, Cdk-5, cdk 5, Cyclin-dependent kinase-5, cyclin dependent kinase-5, Cyclin dependent kinase 5, cyclin-dependent kinase5, Cyclin- dependent kinase 5

TIPARP	ENSP00000420612	RM-1, Tiparp, PARP-1, poly(ADP-ribose) polymerases, PARP1, EC 2.4.2.30, DKFZp434J214, poly (ADP-ribose) polymerases, Rm1, poly (ADP ribose) polymerases, PARP 1, TCDD-inducible poly(ADP-ribose) polymerase, DDF1, PARP-7, TCDD-inducible poly(ADP-ribose)polymerase, PARP7, ARTD14
RPS6KA2	ENSP00000427015	Rsk3, RSK, HU-2, Hu2, RPS6KA2, p90 Rsk-3, p90RSK2, ribosomal S6 kinase 3
PEAK1	ENSP00000452796	PEAK1, Sgk269, KIAA2002, Pseudopodium-enriched atypical kinase 1, Sugen kinase 269, Pseudopodium enriched atypical kinase 1
WWOX	ENSP00000457230	WWOX, FRA16D, WOX1, WW domain-containing oxidoreductase, WW domain containing oxidoreductase, fragile site FRA16D oxidoreductase, WW-domain containing oxidoreductase, WW-domain-containing oxidoreductase, WWdomain-containing oxidoreductase, SCAR12, EIEE28
NUP62	ENSP00000471191	p62, NUP62, p-62, nucleoporin 62 kDa, nucleoporin Nup62, nuclear pore glycoprotein p62, nucleoporin 62
TARDBP	ENSP00000478249	TDP-43, TARDBP, TDP43, TDP 43, hTDP-43, TDP-43 p, TDP- 43, hTDP43
YAP1	ENSP00000478927	YAP65, YAP, YAP1, yes-associated protein 1, Yki, YAP2, yes-associated protein-1, transcriptional coactivator Yap1, YAP-1, hYAP1, yes associated protein 1, yes-associated-protein-1, Yes-associated protein1
TSC2	ENSP00000219476	TSC2, Tuberin, TSC-2, TSC complex, TS- c2, TSC2 p, TSC 2, TSC2p, TSC complex subunit 2, lam
CCL13	ENSP00000225844	MCP-4, Scyl1, chemokine ligand 13, NCC-1, monocyte chemotactic protein-4, monocyte-chemotactic protein-4, monocyte chemoattractant protein-4, CCL13, CCL-13, monocyte chemoattractant protein 4, MCP4, CCL1-3, chemokine Ligand-13
ULBP1	ENSP00000229708	ULBP1, RAET1I, ULBP-1, UL16-binding protein-1, UL16-binding protein 1, ULBP 1, UL16 binding protein 1
EIF2AK2	ENSP00000233057	PKR, p68 kinase, EIF2AK2, PRKR, PK-R, EIF2AK1, interferon-inducible RNA-dependent protein kinase, Protein Kinase RNA-activated, protein kinase-RNA activated, interferon-induced, double-stranded RNA-activated protein kinase, EIF2AK1 p

TARDBP	ENSP00000240185	TDP-43, TAR-DNA-binding protein, TARDBP, TAR DNA-binding protein, TAR DNA binding protein, TAR DNA-binding protein 43, TDP43, TAR DNA binding protein-43, TAR-DNA binding protein, TAR DNA binding protein 43, TAR DNA-binding protein-43, TAR-DNA-binding protein 43, TAR-DNA-binding protein-43, TAR-DNA binding protein 43, TDP- 43, TAR-DNA binding protein-43, TAR DNA-bindingprotein 43, TDP 43, TARDNA-binding protein 43, hTDP-43, TDP, TDP-43 p, hTDP43, TAR DNA -binding protein
IL17C	ENSP00000244241	IL-21, IL-17C, IL21, C-X2, Interleukin 17C, Interleukin-17C, CX2, IL-21, IL17C, IL 21, IL2 1
SLC22A5	ENSP00000245407	OCTN2, SLC22A5, Solute carrier family 22 member 5, solute carrier family 22, member 5, hOCTN2, organic cation/carnitine transporter 2, organic cation/carnitine transporter-2, scd, Cdsp
FGL2	ENSP00000248598	Fgl2, pT49, Fibroleukin, fibrinogen-like protein 2, HFGL2, hpT49, fibrinogen-like 2, fibrinogen like protein 2, Fibrinogen-like protein-2, FGL 2
SESN2	ENSP00000253063	Hi95, Hypoxia-induced gene, Sestrin2, SESN2, sestrin 2, Ses2, hypoxia induced gene, sestrin-2
RFX1	ENSP00000254325	RFX, RFX1, RF-X, enhancer factor C, transcription factor RFX1, RFX-1, Regulatory factor X1, Regulatory factor X-1, regulatory factor X 1
BRD4	ENSP00000263377	CaP, BRD4, bromodomain-containing 4, 5 CRM, chromosome-associated protein, bromodomain-containing protein 4, 4 mEq, 4 MEN, bromodomain containing 4, bromodomain containing protein 4, bromodomain-containing protein-4, bromodoma in-containing protein 4, bromodomaincontaining protein 4, BRD 4, M-CAP, chromosome associated protein
GTF2H1	ENSP00000265963	p62, TFIIH, BTF2, GTF2H1, p-62, Tfb1, general transcription factor IIH, polypeptide 1
FGF7	ENSP00000267843	FGF7, KGF, keratinocyte growth factor, FGF-7, fibroblast growth factor 7, fibroblast growth factor-7, HBGF-7, heparin-binding growth factor-7, FGF 7
UCN	ENSP00000296099	UCN, urocortin, UroC
MMP19	ENSP00000313437	MMP19, MMP-19, MMP-18, matrix metalloproteinase 19, Matrix metalloproteinase-19, Rasl, matrix metalloproteinase RASI, RASI-1

KHDRBS1	ENSP00000313829	Sam68, p68, p62, KHDRBS1, GAP-associated tyrosine phosphoprotein p62, p-62, HP68, KH domain containing, RNA binding, signal transduction associated 1, KH domain-containing, RNA-binding, signal transduction-associated 1
MX2	ENSP00000333657	Hmx2, MX2, MxB, MX dynamin-like GTPase 2, Myxovirus Resistance Protein 2
PKLR	ENSP00000339933	PKR, PKLR, PKL, PK-R, PK-LR, RPK, EC 2.7.1.40, PK L, PK-L, PK R, PKRL, HPK1, R-PK, Pyruvate kinase L/R
SPAG8	ENSP00000340982	HSD1, SMP1, hSMP-1, HSD-1, HSD 1, SPAG8
PTGES	ENSP00000342385	mPGES, mPGES1, MGST1-L1, PIG12, PGES, prostaglandin E synthase, Microsomal prostaglandin E synthase-1, mPGES-1, microsomal prostaglandin E synthase 1, 4 bpm, microsomal glutathione S-transferase 1-like 1, PTGES, microsomal prostaglandin-E synthase-1, prostaglandin-E synthase
CD5	ENSP00000342681	CD5, HT1, Leu-1, Leu1, HT-1, CD5 molecule, cd 5, Leu1p, CD5 antigen, HT 1, Leu 1, T1P, CD5-antigen
FYN	ENSP00000346671	fyn, SLK, Syn, p59fyn, Src family tyrosine kinases, src-like kinase, Src-family tyrosine kinases, FYN oncogene related to SRC, FGR, YES, tyrosine protein kinase Fyn
JPT1	ENSP00000348316	HN-1, HN1, hematological and neurological expressed 1, Arm2, Jupiter microtubule-associated homolog 1, JPT1
AKR1B10	ENSP00000352584	Arl1, ARL-1, aldoketoreductases, aldo-keto reductases, hARL1, small intestine reductase, Arl1p, AKR1B10, aldose reductase-like-1, Aldo-keto reductase family 1, member B10, Aldo-keto reductase family 1 member B10, aldoketo reductases, H Is, Aldo-ketoreductase family 1 member B10
BSCL2	ENSP00000354032	Gng3lg, BSCL2, Seipin, Berardinelli-Seip congenital lipodystrophy 2, Berardinelli Seip Congenital Lipodystrophy 2
SREBF2	ENSP00000354476	SREBP-2, sterol regulatory element-binding protein 2, sterol regulatory element-binding protein-2, SREBP2, sterol regulatory element binding protein 2, SREBF2, sterol regulatory element binding protein-2, SREBP 2, sterol-regulatory element binding protein 2, sterol regulatory element binding transcription factor 2, Sterol-regulatory-element-binding protein 2, sterol-regulatory element-binding protein-2, sterol-regulatory element-binding protein 2, SREBF-2, sterol regulatory element-binding transcription factor 2

PLA2G4A	ENSP00000356436	cytosolic phospholipase A2, PLA2g4a, cPLA2, cPLA2-alpha, cPLA2alpha, cytosolic phospholipase-A2, Phospholipase A2, Group IVA, cPLA2 alpha, PLA2G4, Phospholipase A2 Group IVA, cytosolic phospholipaseA2
S100A16	ENSP00000357693	S100A16, S100 calcium binding protein A16, S100 calcium-binding protein A16
S100A2	ENSP00000357697	S100A2, protein S100A2, S100 calcium binding protein A2, S100 A2, CaN19, S100-A2, S-100A2
HRNR	ENSP00000357791	hornerin, S100A16, HRNR
LET7C5P	hsa-let-7c-5p	let-7c, hsa-let-7c, let7c, let- 7c, hsa-let-7c-5p, let-7c-5p, let7c-5p, let-7-c
ELP1	ENSP00000363779	IKAP, IKBKAP, ELP-1, Elp1p, p150, Elongator complex protein 1, IkappaB kinase complex-associated protein, IkappaB kinase complex associated protein, Elp1, Dys, hELP1, inhibitor of kappa light polypeptide gene enhancer in B cells, kinase complex-associated protein, inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein, HEL-P1
SLC22A6	ENSP00000367102	rOAT1, hOAT1, PAH transporter, OAT1, organic anion transporter 1, SLC22A6, organic anion transporter-1, organic anion transporter1
PCDH17	ENSP00000367151	PCDH17, Protocadherin 17, PCH68, Protocadherin-17, PCDH-17, Protocadherin17, Nonclustered Protocadherins
CA9	ENSP00000367608	carbonic anhydrase IX, CA IX, CA9, CAIX, EC 4.2.1.1, carbonic anhydrase 9, renal cell carcinoma-associated antigen G250, carbonic anhydrase-9, carbonic dehydratase, CA-IX, CA-9, hCA9, carbonic anhydrase-IX
GLRX	ENSP00000369314	thioltransferase, Grx, glutaredoxin, GLRX, Grx1, glutaredoxin (thioltransferase, Glutaredoxin 1, thiol transferase, glutaredoxin-1, GRX-1, hGrx1, glutaredoxin1
HRH1	ENSP00000380247	H1R, Histamine receptor H1, HRH1, histamine H1 receptor, histamine H1-receptor, HH1R, HRH-1
GSTP1	ENSP00000381607	GstP, GSTP1, GST-P, GST3, GST 3, GST-3, GSTP1-1, glutathione S-transferase P, 18 GS, GST P, GST P1, hGSTP1, glutathione-S-transferase p, GST P1-1, GST-P1, glutathione-S-transferase pi1, glutathione s-transferase Pi1, GSTP-1, glutathione S-transferase Pi 1, glutathione S-transferase Pi-1, Glutathione-S-transferase pi 1, GSTP1 p, 20 GS, glutathione-S-transferase-P, glutathione S-transferase-P, 5 GSS, glutathione S transferase P

MGAT5	ENSP00000386377	N-acetylglucosaminyltransferase V, GnT-V, Mgat5, GnT-VA, EC 2.4.1.155, GlcNAcT V, N-Acetylglucosaminyltransferase-V, N-acetylgluco-saminyltransferase V, N-acetylglucosaminyl transferase V, N-acetyl glucosaminyltransferase V, Mgat-5, Mannosyl (alpha-1, 6-)-glycoprotein beta-1, 6-N-acetyl-glucosaminyltransferase, GlcNAc-TV
CD8A	ENSP00000386559	CD8, MAL, p32, Leu-2, Leu2, CD8A, hp32, 1 CD8, CD 8, m AL, CD-8, P3 2, Leu 2, 1CD8
IGF2	ENSP00000391826	IGF-II, IGF2, insulin-like growth factor 2, Insulin-like growth factor II, IGF-2, insulin-like growth factor-2, IGF II, insulin like growth factor-II, insulin like growth factor II, insulin-like growth factor-II, somatomedin-A, Somatomedin A, insulin-like growth-factor 2, IGFII, 1gf2, IGF 2, insulin-like-growth factor II, insulin-like-growth-factor-II, insulinlike growth factor II, insulin-like growth-factor-II, Insulin like growth factor 2, preptin, insulin-like growth factor -II, Insulinlike Growth Factor 2, insulin like growth factor-2, insulinlike growth factor-II
BZW2	ENSP00000397249	BZW2, Basic leucine zipper and W2 domains 2
TRIM48	ENSP00000402414	Tripartite Motif-Containing 48, TRIM48
MUC15	ENSP00000416753	MUC15, PAS3, PAS 3, PAS-3, MUCIN 15
DUSP7	ENSP00000417183	MKPX, DUSP7, MKP-X, Pyst2, Dual-specificity phosphatase 7
CEBPA	ENSP00000427514	C/EBP alpha, CEBPA, C/EBPalpha, CCAAT/enhancer binding proteins, CCAAT/enhancer-binding protein alpha, CCAAT/enhancer binding protein alpha, C/EBP-alpha, CCAAT/enhancer-binding proteins, CCAAT/enhancer binding protein-alpha, CCAAT/enhancer-binding protein-alpha, CCAAT/ enhancer binding protein alpha, CEBP, CCAAT/enhancer binding protein (C/EBP), alpha, CCAAT/enhancer binding protein A, CCAAT/enhancer-binding-protein-alpha, C-EBP
HSF1	ENSP00000431512	HSF1, heat shock transcription factor 1, HSF-1, heat-shock transcription factor 1, heat shock transcription factor-1, HSTF1, HSF 1, heat-shock transcription factor-1, HSTF-1, heat shock transcription factor1, hHSF1, heat shock factor protein 1, H-stf1
MTRNR2L1	ENSP00000439228	HN-1, HN1

SLC16A1	ENSP00000441065	MCT1, MCT-1, SLC16A1, monocarboxylate transporter 1, monocarboxylate transporter-1, solute carrier family 16, member 1, m-CT, monocarboxylate transporter1, mCt, solute carrier family 16 member 1, MCT 1
CITED2	ENSP00000444198	P35srj, CITED2, Mrg1, cited-2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain 2, Cbp/p300-interacting transactivator with Glu/Asp-rich carboxy-terminal domain-2, Cited 2
NDRG2	ENSP00000451712	NDRG2, hNDRG2, NDRG family member 2
CIB1	ENSP00000479860	calmyrin, cib, CIB1, Kip1, KIP, CIB-1, KIP 1
GPIHBP1	ENSP00000480053	HBP1, GPI-HBP1, GPIHBP1, glycosylphosphatidylinositol-anchored high-density lipoprotein-binding protein 1, glycosylphosphatidylinositol-anchored high density lipoprotein-binding protein 1, high-density lipoprotein-binding protein 1, glycosylphosphatidylinositol-anchored high-density lipoprotein binding protein 1, GPIHBP-1, glycosyl-phosphatidylinositol anchored high-density lipoprotein-binding protein 1, HBP-1, glycosylphosphatidylinositol anchored high density lipoprotein binding protein 1, glycosylphosphatidylinositol anchored high-density lipoprotein-binding protein 1, high density lipoprotein binding protein 1, high-density lipoprotein binding protein 1, GPI-anchored high-density lipoprotein-binding protein 1
GATD3B	ENSP00000480313	Hes1, HES 1, Hes-1, Es-1, GT335, Es1, C21orf33
CD24	ENSP00000483985	CD24, CD24a, signal transducer CD24, CD24 antigen, CD24 molecule, CD24- human, CD 24 antigen
MYOC	ENSP00000037502	myocilin, MYOC, GLC1A, Trabecular meshwork Inducible Glucocorticoid Response protein, tigr, trabecular meshwork-induced glucocorticoid response protein, Trabecular meshwork Inducible Glucocorticoid Response Protein, trabecular meshwork-inducible glucocorticoid response protein, trabecular meshwork induced glucocorticoid response protein

TGFB1	ENSP00000221930	DPD1, transforming growth factor beta1, transforming growth factor-beta1, Tgfb1, transforming growth factor beta-1, Transforming growth factor-beta 1, transforming growth factor beta 1, transforming-growth-factor-beta 1, transforming growth factorbeta1, Tgfb-1, C-E-D, CE-D, transforming growth-factor-beta1, transforming growth factor-beta-1, transforming growth factor-beta 1, transforming growth-factor-beta 1, TGF-b1, TGF-B 1, Transforming-growth factor beta1, transforming growth factor-beta1, transforming growth factor, beta-1, Transforming growth factor-B1, CeD, transforming growth factor B1, transforming growth factor, beta 1, Transforming-growth-factor beta 1
CSF3	ENSP00000225474	G-CSF, granulocyte colony-stimulating factor, GCSF, granulocyte-colony-stimulating factor, filgrastim, granulocyte colony stimulating factor, granulocyte-colony stimulating factor, CSF3, granulocyte colonystimulating factor, lenograstim, granulocyte colony-stimulating factor, Granulocyte colony-stimulating-factor, CSF-3, colony-stimulating factor 3, granulocyte- colony-stimulating factor, granulocyte- colony stimulating factor, granulocyte-colony-stimulating-factor
NAGLU	ENSP00000225927	alpha-N-acetylglucosaminidase, NAGLU, nAG, EC 3.2.1.50, Sanfilippo disease IIIB
GMNN	ENSP00000230056	Gem, Geminin, GMNN, geminin, DNA replication inhibitor
HES1	ENSP00000232424	Hhl, Hes1, Hes-1, HRY, Hes 1, transcription factor HES-1, hairy and enhancer of Split1, hairy and enhancer of split-1, Hairy and Enhancer of Split 1, HES1 human, hes family bHLH transcription factor 1, transcription factor Hes1
PROC	ENSP00000234071	Apc, protein C, protein-C, Anticoagulant protein C, ProC, Vitamin K-dependent protein C, anti-coagulant protein C, Pro-C, 2 PCT
RPN2	ENSP00000237530	Rpn2, RPN II, ribophorin II, Rpn-2, RPNII, hRpn2, SWP1, Ribophorin-II
MAPK8IP3	ENSP00000250894	JSAP1, MAPK8IP3, JIP3, c-Jun-amino-terminal kinase-interacting protein 3, SYD
CMPK2	ENSP00000256722	UMP/CMP kinase, UMP-CMPK2, CMPK2, TYKi, nucleoside diphosphate kinase, EC 2.7.4.14, nucleoside-diphosphate kinase, NDK, UMP/CMP-kinase

UBE2S	ENSP00000264552	ubiquitin-protein ligase, E2 ubiquitin-conjugating enzymes, ubiquitin carrier proteins, ubiquitin protein ligase, EPF5, ubiquitin carrier protein, E2-EPF, ubiquitin-carrier protein, ubiquitin-conjugating enzyme E2S, UBE2S, ubiquitin-conjugating enzyme E2 S
PXN	ENSP00000267257	paxillin, 3 GM1, paxil-lin, PXN
RAB5A	ENSP00000273047	Rab5, Rab5A, rab-5, Ras-related protein Rab-5A
ST14	ENSP00000278742	matriptase, epithin, St14, MT-SP1, HAI, ARCI11, SNC19, St 14, membrane-type serine protease 1, suppression of tumorigenicity-14, PRSS14, membrane type serine protease 1, TADG-15, Membrane-type serine protease-1, suppression of tumorigenicity 14, serine protease 14, membrane type-serine protease 1
STC1	ENSP00000290271	STC1, Stanniocalcin-1, Stanniocalcin 1, stc, STC-1, hSTC-1, STC 1, Stanniocalcin1, hSTC1
MCAT	ENSP00000290429	MCT1, MCAT, MCT-1, M-CAT, m-CT, malonyl-CoA-acyl carrier protein transacylase, mCt
GATD3A	ENSP00000291577	Hes1, HES-1, Es-1, KNP-I, ES1, GT335, protein KNP-I, HES 1, ES1 protein homolog, ES1 protein homolog, mitochondrial, ES-1 human, C21orf33
CLDN1	ENSP00000295522	CLDN1, claudin-1, SEMP1, claudin 1, CLD1, senescence-associated epithelial membrane protein 1, CLDN-1, claudin1, CLDN 1, Cld-1
IGFBP7	ENSP00000295666	TAF, mac25, IGFBP7, mac25 protein, IGFBP-7, prostacyclin-stimulating factor, IGFBP-rP1, insulin-like growth factor binding protein-7, insulin-like growth factor binding protein 7, mac 25, prostacyclin stimulating factor, Insulin-like growth factor binding-protein-7, IGFBPrP1, T-A-f, Insulin-like growth factor-binding protein 7, Insulin-like growth factor-binding protein-7, P-SF, Insulin like growth factor binding protein 7, insulin- like growth factor-binding protein 7, Insulinlike growth factor-binding protein 7, insulin-like growth factor binding protein7, IGFBP 7, RAMSVPS, PGI2-stimulating factor
KCNK3	ENSP00000306275	KCNK3, TASK-1, OAT1, hOAT1, TASK1, K2P3.1, Potassium Channel Subfamily K Member 3, potassium two-pore-domain channel subfamily K member 3, potassium two-pore domain channel subfamily K member 3

ADAM17	ENSP00000309968	ADAM17, TNF-alpha convertase, TNF-alpha-converting enzyme, TNF-alpha converting enzyme, TNFalpha convertase, TNFalpha-converting enzyme, TNF alpha converting enzyme, ADAM 17, ADAM-17, snake venom-like protease, cSVP, TNF-alpha- converting enzyme, tACE, hADAM17, CD156b, ADAM metallopeptidase domain 17, disintegrin and metalloproteinase domain-containing protein 17, TNF alpha-converting enzyme
HNRNPA1	ENSP00000341826	hnRNP A1, hnRNPA1, heterogeneous nuclear ribonucleoprotein A1, UP1, HNRPA1, HNRP A1, hnRNP-A1, hnRNPA 1, single-strand RNA binding protein, helix-destabilizing protein
ATG7	ENSP00000346437	Gsa7, Atg7, autophagy-related 7, Gsa7p, ubiquitin-activating enzyme E1-like protein, ubiquitin-activating enzyme-E1-like protein, Atg-7, autophagy-related protein 7, Atg 7, autophagy related 7
HTT	ENSP00000347184	huntingtin, htt, IT15, HD human, IT-15, Huntington disease protein
IQGAP3	ENSP00000354451	IQGAP3, IQ Motif Containing GTPase-Activating Protein 3, IQ motif-containing GTPase activating protein 3
PSEN2	ENSP00000355747	pS2, PSEN2, presenilin 2, E5-1, STM2, presenilin-2, HPS2, pS-2, HPS-2, PS -2, AD4, Ps 2, PSEN-2, AD5, presenilin2, HAD5, PSEN2 p, Presenilin- 2, HAD-4, e51
KISS1	ENSP00000356162	KiSS1, KiSS-1, kisspeptin, KiSS-1 metastasis suppressor, KISS1 metastasis suppressor, kisspeptin-1, metastasis suppressor KiSS-1, metastasis suppressor KISS1, KiSS-1 metastasis-suppressor, Kisspeptin 1, KISS1 metastasis-suppressor
LMNA	ENSP00000357283	lamin A/C, LMNA, LGMD1B, lamins, lamin-A/C, Pro-1, LMN1, laminA/C, iDC, limb girdle muscular dystrophy 1b, prelamin-A/C, prelamin A/C, Limb-Girdle muscular Dystrophy 1B, fPL
YY1AP1	ENSP00000357323	YAP, YY1AP1, HCCA2, HCCA1, GRN g, GrnG, YY1-associated protein 1, YY1 associated protein 1
DMBT1	ENSP00000357905	gp-340, DMBT1, gp340, glycoprotein-340, Deleted in Malignant Brain Tumors 1, hensin, Muclin, deleted in malignant brain tumors-1, DMBT-1, Salivary agglutinin, deleted in malignant brain tumors 1 protein, glycoprotein 340, salivary scavenger and agglutinin
MCTS1	ENSP00000360365	MCT1, MCT-1, multiple copies in T-cell lymphoma-1, MCTS1

LGI1	ENSP00000360472	Epitempin, LGI1, leucine-rich glioma-inactivated 1, leucine-rich, glioma-inactivated 1, leucine-rich, glioma inactivated 1, Leucine-rich Glioma Inactivated-1, LGI-1, leucine-rich glioma inactivated 1, Leucine-rich glioma-inactivated1, leucine-rich glioma inactivated protein 1, leucine-rich glioma-inactivated protein 1, LGI 1
GHRH	ENSP00000362716	GHRH, growth-hormone-releasing hormone, growth hormone-releasing hormone, growth hormone-releasing factor, GHRF, growth hormone releasing hormone, growth hormone releasing factor, grf, somatocrinin, GH-RH, growth-hormone releasing hormone, Growth Hormone - Releasing Hormone, growth-hormone-releasing factor
SPDEF	ENSP00000363149	SPDEF, PDEF, SAM pointed domain-containing ETS transcription factor, prostate epithelium-specific ets transcription factor, prostate-derived Ets factor, pSE, prostate derived Ets factor, Sam-pointed domain containing Ets transcription factor, SAM pointed domain containing ETS transcription factor, SAM-pointed domain-containing ETS transcription factor
VRK1	ENSP00000216639	PCH-1, PCH1, VRK1, VRK-1, vaccinia-related kinase 1, PCH1a
CYP27B1	ENSP00000228606	CYP27B1, 1alpha-(OH)ase, 25-hydroxyvitamin D3-1alpha-hydroxylase, hCYP1, cytochrome p450 27B1, CYP1, P450c1, 25-hydroxyvitamin D3 1alpha-hydroxylase, v DD 1, 1alpha(OH)ase, 25-hydroxyvitamin d(3)-1 alpha-hydroxylase, 25-hydroxyvitamin D(3)-1alpha-hydroxylase, VDD1, 25-hydroxyvitamin D3-1 alpha-hydroxylase, Vdr, 1-alpha(OH)ase, 25-OHD 1 alpha-hydroxylase, 25-hydroxyvitamin D3 1 alpha-hydroxylase, 25-OHD-1 alpha-hydroxylase, CYP1alpha, 25-hydroxy-vitamin D(3)-1alpha-hydroxylase, CYP 27B1, 25-hydroxyvitamin D(3) 1alpha-hydroxylase, 25-hydroxyvitamin D(3) 1-alpha-hydroxylase, 25-hydroxyvitamin D31alpha-hydroxylase, 25-hydroxyvitamin D(3)1alpha-hydroxylase, cytochrome P450c1A, 25-hydroxyvitamin-D(3)-1-alpha-hydroxylase, 25-hydroxyvitamin D(3)1alpha hydroxylase, 25-OHD-1alpha-hydroxylase, 25-hydroxyvitamin D(3)-1-alpha hydroxylase, 25-hydroxyvitamin-D3 1alpha-hydroxylase, cytochrome P450, family 27, subfamily B, polypeptide 1, CYP27B, CYP27B1 p, 25-hydroxyvitamin D3 1-alpha-hydroxylase, cytochrome P450 family 27 subfamily B member 1, 1 alpha(OH)ase

LNPEP	ENSP00000231368	P-LAP, CaP, oxytocinase, IRAP, placental leucine aminopeptidase, aminopeptidases, insulin-responsive aminopeptidase, PLAP, OTase, insulin-regulated membrane aminopeptidase, insulin-responsive amino peptidase, Cystinyl aminopeptidase, cystinyl-aminopeptidase, amino peptidases, LNPEP, Insulin Responsive Amino Peptidase, leucyl/cystinyl aminopeptidase, amino-peptidases
CTSD	ENSP00000236671	cathepsin D, cathepsin S, cathepsins, CTSD, EC 3.4.23.5, cathepsin-D, cathepsinD, 1LYB, cathepsin-S
EREG	ENSP00000244869	epiregulin, EREG
BMP4	ENSP00000245451	bone morphogenetic protein-4, BMP-4, bone morphogenetic proteins, Bmp4, Bone morphogenetic protein 4, hBmp4, Zyme, bmp2b, Bmp-2b1, BMP-2B, OFC11, bone morphogenetic proteins, Bone-morphogenetic proteins, BMP 4, Bmp, BMP4-p, Bone morphogenetic protein4
RFPL3	ENSP00000249007	RFPL3
RRM2B	ENSP00000251810	p53R2, RRM2B, EC 1.17.4.1, ribonucleoside-diphosphate reductase subunit M2B
APC	ENSP00000257430	Apc, DP2, adenomatous polyposis coli protein, Adenomatous polyposis coli, adenomatosis polyposis coli, DP3, DP2.5, M 74088, Adenomatous Polyposis Coli-protein, Ade-nomatous polyposis coli, DP-2, adenomatous-polyposis coli, Dp-3, adenomatous polyposis coli, HDP2, Adenomatous-Polyposis-Coli, APC, WNT signaling pathway regulator
KDR	ENSP00000263923	KDR, Flk1, VEGFR2, Flk-1, VEGFR-2, vascular endothelial growth factor receptor 2, kinase insert domain receptor, Fetal liver kinase 1, VEGF-R2, VEGF R2, vascular endothelial growth factor receptor-2, fetal liver kinase-1, vascular endothelial growth factor-receptor 2, hVEGFR2, 2 Met, VEGFR 2, kinase-insert domain receptor, K-D-R, Vascular endothelial growth factor receptor-2, FLK 1, 4 ASD, VEGF R 2, kinase insert-domain receptor, vascular-endothelial growth factor receptor 2, CD309, 4AG8, 4 as E
PRDX5	ENSP00000265462	Plp, AOEB166, PRDX5, Peroxiredoxin 5, antioxidant enzyme B166, peroxiredoxin-5, acr1, Peroxiredoxin V, PRXV, Prdx 6, Prdx6, peroxiredoxin 5, Acr-1, peroxisomal antioxidant enzyme, P-LP, hPRDX5, Prx V, Peroxiredoxin5

TIMP3	ENSP00000266085	TIMP-3, metalloproteinase inhibitor 3, Timp3, tissue inhibitor of metalloproteinases-3, tissue inhibitor of metalloproteinase-3, Tissue Inhibitor of Metalloproteinase 3, hTIMP-3, tissue inhibitor of metalloproteinases 3, tissue inhibitor of metalloproteinases- 3, TIMP metalloproteinase inhibitor 3, TIMP 3, hTIMP3
RB1	ENSP00000267163	RB1, pRB, pp110, Rb-1, p105-RB, retinoblastoma 1, p105Rb, Rb 1, retinoblastoma-1, OS-RC, p-Rb, PR-B, PR_b, retinoblastoma-associated protein, OSRC, retinoblastoma1, RB transcriptional corepressor 1, p105 Rb
HAPLN1	ENSP00000274341	CrT1, Hcrt-1, CRTL1, CRTL-1, CRT-1, proteoglycan link protein, cartilage link protein, HAPLN1, hyaluronan and proteoglycan link protein 1, Hcrt1
IL9	ENSP00000274520	Interleukin-9, IL-9, IL9, Interleukin 9, T-cell growth factor P40, p40 cytokine, HP40
HOXA10	ENSP00000283921	Hoxa-10, HOXA10, HOX1, HOX-1, Hox 1, Hox 1H, Hoxa 10, homeobox A10, Homeo box A10, HomeoboxA10
WNT7A	ENSP00000285018	Wnt7a, WNT family, Wnt-7a, Wnt-family, Wnt 7a, wingless-type MMTV integration site family, member 7A, protein Wnt7a
CBR1	ENSP00000290349	Crn, Cbr, carbonyl reductase 1, CBR1, CBR 1, carbonyl reductase1
NOTCH4	ENSP00000364163	Notch4, int-3, Int3, Notch 4, Notch-4
CUL4A	ENSP00000364589	CUL-4A, CUL4A, cullin 4A, cullin-4A, Cullin4A, hCUL4A
POFUT1	ENSP00000364902	HDDD2, pofut1, Protein O-fucosyltransferase 1, Protein O-fucosyltransferase-1
TP73	ENSP00000367545	p73, TP73, p53-related protein, 2 MPS, tumor protein p73, P73P
ASAH1	ENSP00000371152	acid ceramidase, EC 3.5.1.23, acid-ceramidase, ASAH1, N-acylsphingosine amidohydrolase 1, N-acylsphingosine amidohydrolase, acylsphingosine deacylase, pHP, A-CDase, aCDase, ASAH 1

G6PD	ENSP00000377192	G6PD, glucose-6-phosphate dehydrogenase, G-6-PD, glucose 6-phosphate dehydrogenase, G-6PD, glucose-6-phosphate-dehydrogenase, EC 1.1.1.49, glucose 6 phosphate dehydrogenase, glucose- 6-phosphate dehydrogenase, glucose-6- phosphate dehydrogenase, glucose-6 phosphate dehydrogenase, hG6PD, glucose-6-phosphate 1-dehydrogenase, G6 PD, G 6-PD, Glucose-6 - Phosphate dehydrogenase, glucose -6 phosphate dehydrogenase, 2BH9, Glucose-6-Phosphate Dehy-drogenase, G6-PD, glucose 6-phosphatedehydrogenase, G6PD p, G-6-P-D
GPT	ENSP00000378408	AAT-1, alanine-aminotransferase, Gpt-1, Gpt, GPT1, glutamic-pyruvate transaminase, alanine aminotransferase, glutamic-pyruvic transaminase, ALT1, glutamic-pyruvic transaminase-1, AAT1, GPT 1, glutamic pyruvic transaminase, ALT-1, alanine amino transferase, Alanine amino-transferase, glutamic pyruvate transaminase
ARHGAP24	ENSP00000378611	p73, Arhgap24, RC-GAP72, FilGAP, FLJ33877, p73RhoGAP, AK091196, DKFZp564- B1162, Rho GTPase-activating protein 24, P73P, RHO GTPase activating protein 24
PTK2B	ENSP00000380638	Pyk2, proline-rich tyrosine kinase 2, 3 GM1, FAK2, related adhesion focal tyrosine kinase, PYK-2, RAFTK, Cell adhesion kinase beta, proline-rich tyrosine kinase-2, PTK2B, pTK, CadTK, proline-rich tyrosine kinase2, focal adhesion kinase 2, protein tyrosine kinase 2 beta, Protein tyrosine kinase 2beta, proline rich tyrosine kinase 2, p-TK, 3-GM3, Pyk 2
KDM1A	ENSP00000383042	LSD1, BHC110, lysine-specific demethylase 1, KDM1, KDM1A, KIAA0601, AOF2, lysine-specific demethylase-1, lysine demethylase 1a, lysine-specific demethylase1, LSD-1, Lysine specific demethylase 1, lysine specific demethylase-1, lysine (K)-specific demethylase 1A, Lysine specific demethylase1, lysine-specific histone demethylase 1A, lysine-specific histone demethylase-1A
ESRRA	ENSP00000384851	ERRalpha, ERR alpha, ESRL1, Estrogen-related receptor alpha, NR3B1, ESRRA, ERR-alpha, estrogen receptor-like 1, ERR1, Estrogen-related receptor-alpha, 3-D24, Estrogen related receptor alpha, Estrogen-related-receptor alpha

GLI2	ENSP00000390436	Gli2, Thp, pHS2, Thp2, GLI-2, PHS-2, GLI-Kruppel family member GLI2, GLI family zinc finger 2, Th-p, Gli 2, GLI family zinc finger protein 2, glioma-associated oncogene family zinc finger 2
HERPUD1	ENSP00000409555	Mif1, Herpud1, KIAA0025, HERP, MIF-1, HERPUD 1, homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1
STMN1	ENSP00000410452	stathmin, PP17, Lap18, Op18, leukemia-associated phosphoprotein p18, metastasin, stathmin 1, stathmin-1, oncoprotein 18, STMN1, LAg, phosphoprotein p19, oncoprotein18, stathmin1, LAP 18, oncoprotein-18, STMN-1, Pr22
CNBP	ENSP00000410769	ZNF9, Hdm2, CNBP, zinc finger protein 9, Cellular Nucleic Acid Binding Protein, cellular nucleic acid-binding protein, CCHC-type zinc finger, nucleic acid binding protein, HDM-2, CCHC-type zinc-finger nucleic acid-binding protein, Dm2
HFE	ENSP00000417404	HFE, Hh, HLA-H, hereditary hemochromatosis protein, HFE Human
FHIT	ENSP00000417480	Fhit, FRA3B, fragile histidine triad, fragile histidine triad protein, fragile histidine triad gene, EC 3.6.1.29, FRA 3B, FHT, 1-FIT
GRIA1	ENSP00000428994	GluR1, HBGR1, GluA1, GLUH1, GRIA1, Glur-A, GluRA, glutamate receptor 1, glutamate receptor, ionotropic, AMPA 1, glutamate ionotropic receptor AMPA type subunit 1, glutamate receptor-1
APPL2	ENSP00000446917	FLJ10659, APPL2, DCC-interacting protein 13-beta, adaptor protein, phosphotyrosine interacting with PH domain and leucine zipper 2
NR1H4	ENSP00000447149	5q14, FXR, 5q13, 5q12, bile acid receptor, Nr1h4, farnesoid X receptor, farnesoid-X-receptor, 5q11, RIP14, 5q15, 3-DCT, 5-q14, farnesoid X-activated receptor, farnesoid X activated receptor, farnesoid-X receptor, 3D-CT, 3D CT, nuclear receptor subfamily 1 group H member 4, HRR1, 3DCT, farnesoid X-receptor, far-nesoid X receptor, 3-D CT
SHANK2	ENSP00000469689	CortBP1, SHANK2, ProSAP1, proline-rich synapse-associated protein-1, SHANK, cortactin-binding protein-1, cortactin-binding protein 1, cortactin binding protein 1, pro-SAP-1, proline-rich synapse-associated protein 1, SH3 and multiple ankyrin repeat domains protein 2, SH3 and multiple ankyrin repeat domains 2

DYRK1B	ENSP00000469863	mirk, DYRK1B, minibrain-related kinase, Mirk protein kinase, minibrain related kinase, dual specificity tyrosine-phosphorylation-regulated kinase 1B, miR-K, dual-specificity tyrosine phosphorylation-regulated kinase 1B, Dual-Specificity-Tyrosine-Phosphorylation-Regulated Kinase 1B, dual specificity tyrosine phosphorylation-regulated kinase 1B, dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B
UHRF1	ENSP00000479617	ICBP90, Np95, UHRF1, ubiquitin-like with PHD and RING finger domains 1, inverted CCAAT box-binding protein of 90 kDa, Inverted CCAAT box Binding Protein of 90 kDa, 3 ASK, ubiquitin-like with PHD and ring-finger domains 1, Transcription factor ICBP90, ubiquitin-like PHD and ring finger domain-containing protein 1, ubiquitin like with PHD and ring finger domains 1, Nuclear protein 95, ubiquitin-like with PHD and RING finger domains-1
RPS6KA5	ENSP00000479667	MSK1, MSK -1, MSK-1, RPS6KA5
ACACA	ENSP00000483300	acetyl-CoA carboxylase 1, ACACA, ACC1, ACC-alpha, acetyl-CoA carboxylase-alpha, acetyl-CoA carboxylase alpha, acc, EC 6.4.1.2, ACC-1, ACCalpha, acetyl-CoA-carboxylase-alpha, acetyl coenzyme A carboxylase alpha, acetyl-coenzyme A carboxylase alpha, ACCA, acetyl-Co A carboxylase-1, Ac-c, acetyl co-A carboxylase alpha, acetyl-CoA carboxylase-1, acetyl CoA carboxylase 1, acetyl-CoA carboxylase1
SERPINB6	ENSP00000484343	CaP, PI-6, cytoplasmic antiproteinase, SERPINB6, p16, placental thrombin inhibitor, SPI3, serpin B6
MIR1265P	hsa-miR-126-5p	miR-126*, MiR-126-5p, hsa-mir-126*, hsa-miR-126-5p, miR126-5p
MIR1323P	hsa-miR-132-3p	miR132, miR-132, hsa-miR-132, hsa-miR-132-3p, miR-132-3p, miR132-3p
MIR151A3P	hsa-miR-151a-3p	miR-151, hsa-miR-151, miR-151-3p, MIR151, miR-151a-3p
MIR27A3P	hsa-miR-27a-3p	miR-27a, Hsa-mir-27a, miR-27a-3p, miR- 27a, miR27a, hsa-miR27a, miR27a-3p, hsa-miR-27a-3p, miR 27a

CEBPB	ENSP00000305422	C/EBPbeta, NF-IL6, CCAAT/enhancer-binding protein beta, CEBPB, CCAAT/enhancer binding proteins, C/EBP-beta, C/EBP beta, transcription factor 5, TCF5, NF-IL-6, CCAAT/enhancer binding protein beta, CCAAT/enhancer-binding proteins, CCAAT/enhancer-binding protein-beta, Interleukin-6-dependent DNA-binding protein, liver-enriched transcriptional activator protein, Crp2, CCAAT/enhancer binding protein-beta, NFIL6, nuclear factor NF-IL6, liver activator protein, liver enriched transcriptional activator protein, liver enriched inhibitory protein, liver-enriched inhibitory protein, IL-6DBP, NF-IL 6, CCAAT/enhancer-binding-protein-beta, CCAAT/enhancer binding protein B, CCAAT/enhancer-binding protein B, NFIL-6
TERT	ENSP00000309572	TERT, telomerase catalytic subunit, telomerase reverse transcriptase, TCS-1, TP2, hEST2, EST2, Telomerase reverse-transcriptase, 5 meq, hTRT, telomerase catalytic sub-unit, 5 MEN, TCS1, TERT human, Telomerase-reverse-transcriptase, Telomerase-reverse transcriptase
SOCS3	ENSP00000330341	SOCS3, SOCS-3, suppressors of cytokine signaling, suppressor of cytokine signaling-3, SOCS, suppressor of cytokine signaling 3, CIS3, SOCS 3, suppressor of cytokine signaling -3, suppressor of cytokine signaling3, suppressors of cytokine-signaling
GAS6	ENSP00000331831	Gas6, growth arrest specific 6, Axl stimulatory factor, Gas-6, growth arrest-specific 6, growth arrest-specific protein 6, Growth arrest specific protein 6, Gas 6, growth arrest specific-6, growth-arrest specific 6, Growth-arrest-specific protein 6, growth-arrest specific protein 6, AXL receptor tyrosine kinase ligand, hGAS6, growth-arrest-specific 6
BSG	ENSP00000333769	CD147, Bsg, basigin, tumor cell-derived collagenase stimulatory factor, EMMPRIN, extracellular matrix metalloproteinase inducer, Ok blood group antigen, CD 147, M6p, TCSF, extracellular matrix metallo-proteinase inducer, collagenase stimulatory factor, CD-147, Tumor cell-derived collagenase-stimulatory factor
GHRL	ENSP00000335074	GHS, Ghrelin, obestatin, growth hormone secretagogue, GHRL, growth hormone-releasing peptide, growth hormone releasing peptide, GHRP, appetite-regulating hormone, MTLRP, growth-hormone secretagogue, Ghrelin and Obestatin Prepropeptide

ANO1	ENSP00000347454	FLJ10261, Tmem16a, ANO1, ORAOV2, dog-1, transmembrane protein 16A, anoctamin 1, DOG1, Ano 1, TAOS2, Anoctamin-1, Anoctamin1, Anoctamins
NTRK3	ENSP00000354207	TrkC, NTRK3, gp145trkC, neurotrophic tyrosine kinase receptor type 3, TRK-C, Trk C, NTRK-3, neurotrophic tyrosine kinase, receptor, type 3, neurotrophic receptor tyrosine kinase 3, trk-C tyrosine kinase
HACD1	ENSP00000355308	Ptpla, CaP, HACD1, 3-hydroxyacyl-CoA dehydratase 1, protein-tyrosine phosphatase-like member-a, cementum attachment protein
DACT2	ENSP00000355760	DAPPER2, Dpr2, DACT2, DACT-2
HEY2	ENSP00000357348	grl, Hey2, Hrt2, CHF1, HERP1, HERP, Hairly-related transcription factor 2, hesr2, HEY 2, Hey-2, Hairly/enhancer-of-split related with YRPW motif protein 2
IRAK1	ENSP00000358997	IRAK, IRAK-1, IRAK1, interleukin-1 receptor associated kinase-1, pelle, interleukin-1 receptor-associated kinase-1, interleukin-1 receptor-associated kinase 1, Interleukin 1 receptor-associated kinase 1, interleukin-1 receptor associated kinase 1, interleukin-1-receptor-associated kinase 1, IRAK 1, interleukin 1 receptor associated kinase 1
SORBS1	ENSP00000360293	CaP, SORBS1, sorbin and SH3-domain-containing-1, sorbin and SH3 domain containing 1, ponsin, 2DL3, c-Cbl-associated protein, SH3P12, R85FL, Sorbin and SH3 domain-containing protein 1
ENTPD8	ENSP00000360561	E-NTPDase, NTPDase8, ecto-nucleoside triphosphate diphosphohydrolase 8, ENTPD8, EC 3.6.1.5
CAP1	ENSP00000361883	CaP, CAP1, CAP-1, adenylate cyclase-associated protein 1, Adenylyl cyclase-associated protein-1, Adenylyl cyclase-associated protein 1, C AP1, Cap1p
GDF5	ENSP00000363492	CDMP1, cartilage-derived morphogenetic protein 1, GDF5, CDMP-1, growth differentiation factor 5, Bmp14, hCDMP-1, Growth/differentiation factor 5, growth/differentiation factor-5, cartilage-derived morphogenetic protein-1, Gdf-5, cartilage derived morphogenetic protein-1, Growth differentiation factor-5, GDF 5, OS 5, SYNS2, BMP-14, bone morphogenetic protein-14, growth differentiation factor5, SYM1B
PTGER1	ENSP00000292513	EP1, Ptger1, Hep-1, EP-1, prostaglandin E receptor 1, Hep1, Hep 1, prostanoid EP1 receptor
CXCL3	ENSP00000296026	GRO3, chemokine ligand 3, CXCL3, GRO-3, HMIP-2B

IGFBP6	ENSP00000301464	insulin-like growth factor binding protein 6, IGFBP-6, insulin-like growth factor binding protein-6, insulin-like growth factor-binding protein-6, IGFBP6, IGF-BP6, insulin-like growth factor-binding protein 6, IGF BP-6, Insulin-like Growth Factor Binding Protein6
AQP1	ENSP00000311165	aquaporin-1, AQP1, aquaporin 1, AQP-CHIP, CHIP-28, CHIP28, aquaporin CHIP, aquaporin-CHIP, AQP-1, hAQP1, aquaporin1
BOK	ENSP00000314132	BCL2 family, bcl-2 family, Bcl-2-family, Bcl-2-related ovarian killer, BCL2-family, Bcl-2-related ovarian killer protein, BOK, Bcl 2-family, Bcl-2 related ovarian killer, Bcl2-Related Ovarian Killer
VIPR1	ENSP00000327246	Vipr1, RDC-1, RDC1, HVR1, VPAC1, vasoactive intestinal peptide receptor family, HVR 1, HVR-1, VPAC1-R, VPAC1R, VPAC1 R, VirG, VPCAP1-R, VPAC-1, vasoactive intestinal peptide receptor 1, 3 HCV, 3-DTX, VIP-R1, 5 DEG, VAPC1, Vasoactive intestinal polypeptide receptor 1, VIPR, vasoactive intestinal peptide receptor-1, VIP-R
F3	ENSP00000334145	tissue factor, thromboplastin, 1 boy, coagulation factor III, tissue-factor, 3 Th2, TF-A, CD142, 1 TFH, TFa, 2 - CEH, HF 3, HF3
ENOX2	ENSP00000337146	tumor-associated NADH oxidase, ENOX2, ecto-NOX disulfide-thiol exchanger 2
SPRED2	ENSP00000348753	Spred-2, Spred2
COPS5	ENSP00000350512	JAB1, Mov-34, CSN5, CSN-5, Jun activation-domain binding protein 1, Mov 34, Sgn5, Jun activation domain-binding protein 1, JAB-1, Mov34, Jun activation domain binding protein 1, Jun-activation-domain-binding protein 1, COP9 signalosome subunit 5, 4D10, COPS5, CSN 5, Jun activation domain binding protein-1, jun activation domain-binding protein-1, COP9 Signalosome Complex Subunit 5
TFEB	ENSP00000351742	TFEB, transcription factor EB, Tcfef, Alpha-TFEB, AlphaTFEB
PIK3CG	ENSP00000352121	PI3Kgamma, PIK3CG, PI3K gamma, p110gamma, p110 gamma, 3 pre, 3 CSF, 3 APC, PIK3, PI3-Kgamma, PI3CG, PI3K-p, PI3K p, PI3K-gamma
EMP2	ENSP00000352540	EMP2, Epithelial membrane protein-2, EMP-2, epithelial membrane protein 2, EMP 2
ETS2	ENSP00000353344	Ets2, ETS-2, ets 2, v-ets erythroblastosis virus E26 oncogene homolog 2, V-ets erythroblastosis virus E26 oncogene homolog2, V-Ets avian erythroblastosis virus E26 oncogene homolog 2, Protein C-ets-2

MT-CO1	ENSP00000354499	COX I, COX-1, COI, COX1, EC 1.9.3.1, CO I, CO-1, CO1, cytochrome c oxidase subunit I, MTCO1, COX 1, hCox-1, cytochrome c oxidase I, COXI, cytochrome C oxidase-subunit 1, cytochrome c oxidase subunit 1, cytochrome c oxidase subunit-I, MT-CO1, COX-I, Mitochondrially Encoded Cytochrome C Oxidase I, COX- 1, Cytochrome c oxidase subunit-1, cytochrome c-oxidase subunit I
PTGS1	ENSP00000354612	COX-1, PGHS-1, Pes1, COX1, prostaglandin-endoperoxide synthase 1, PTGS1, cyclooxygenase-1, COX-3, PCOX-1, prostaglandin H2 synthase-1, PGG/HS, prostaglandin-endoperoxide-synthase-1, hCox-1, COX 1, cyclo-oxygenase-1, cyclooxygenase 1, PHS-1, PGHS1, EC 1.14.99.1, pcox1, prostaglandin endoperoxide synthase 1, COX3, prostaglandin G/H synthase 1, prostaglandin-endoperoxide synthase-1, COX- 1, PHS1
CCN6	ENSP00000357655	WISP3, CCN6, Wnt1 inducible signaling pathway protein 3, WISP-3, LIBC, Wnt1 inducible signaling pathway protein-3, Wnt-1-inducible signaling pathway protein 3, p-PD, Wnt1-inducible signaling pathway protein 3, WNT1-inducible-signaling pathway protein 3, WNT1-inducible-signaling pathway protein3, WNT1-inducible signaling pathway protein-3
MLLT11	ENSP00000357917	AF-1q, AF1q, ALL1-fused gene from chromosome 1q, MLLT11
EIF3A	ENSP00000358140	p185, p180, p167, eIF3a, eIF3-p170, KIAA0139, EIF3S10, p 180, eIF3 p170, Eukaryotic translation initiation factor 3 subunit A, eukaryotic translation initiation factor 3, subunit A
HMGCS2	ENSP00000358414	3-hydroxy-3-methylglutaryl coenzyme A synthase, HMGCS2, 3-hydroxy-3-methylglutaryl-coenzyme A synthase, hHMGCS2, 3-hydroxy-3-methylglutaryl-CoA synthase 2, 3-hydroxy-3-methylglutaryl CoA synthase-2
BRS3	ENSP00000359682	BRS-3, bombesin receptor subtype-3, BB3, Bombesin receptor subtype 3, bombesin-like receptor-3, Bombesin-like receptor 3, Brs3
NIBAN2	ENSP00000362409	MEG3, FAM129B, MEG 3, MEG-3, Family with sequence similarity 129, member B
TRAF1	ENSP00000362994	TRAF1, TNF receptor-associated factors, EBI6, TNF-receptor associated factors, TRAF-1, TNF receptor-associated factor 1, TNF receptor-associated factor-1, TRAF, TNF Receptor Associated Factors, TNF receptor associated factor 1, TNF-receptor-associated factors

ILRUN	ENSP00000363135	C6orf106, Chromosome 6 open reading frame 106
AGER	ENSP00000364210	receptor for advanced glycation end products, receptor for advanced glycation end-products, receptor for advanced glycation endproducts, receptor for advanced glycosylation end products, receptor for advanced glycosylation endproducts, AGE-R, AGER, Receptor for advanced-glycation end products, advanced glycosylation end product-specific receptor, receptor for advanced glycation end-products, receptor for advanced glycation end-products, receptor for advanced-glycation-end-products, receptor for advanced glycation-end products, Receptor-for-Advanced-Glycation-End-products, advanced glycosylation end-product specific receptor
ARHGEF7	ENSP00000364893	p50, p85, PAK3, beta-Pix, Cool-1, betaPix, ARHGEF7, SH3 domain-containing proline-rich protein, p85SPR, P 5 0, 1 by 1, p85Cool-1, HP 50, Rho guanine nucleotide exchange factor 7
HNRNPK	ENSP00000365439	heterogeneous nuclear ribonucleoprotein K, hnRNP K, hnRNP-K, HNRNPK, CSBP, HNRPK
EDNRB	ENSP00000366416	Ednrb, ET-B, ETB-R, ETRB, endothelin receptor type B, ETB, ETBR, ET B, ET-RB, ETB1, ETR-B, ET-BR, ET BR, Endothelin Receptor Type-B
MAOB	ENSP00000367309	monoamine oxidase B, MAOB, MAO B, MAO-B, EC 1.4.3.4, monoamine oxidase type B, monoamine oxidase-B, monoamine-oxidase B, monoamine oxidase -B, monoamine oxidase type-B
SLC23A2	ENSP00000368637	SVCT2, Slc23a1, hSVCT2, YSPL2, sodium-dependent vitamin C transporter 2, SLC23A2, SVCT-2, solute carrier family 23 member 2
POSTN	ENSP00000369071	periostin, OSF-2, Osf2, osteoblast-specific factor-2, Osteoblast-specific factor 2, osteoblast specific factor 2, POSTN
FGF9	ENSP00000371790	Fgf9, Glia-activating factor, FGF-9, fibroblast growth factor 9, fibroblast growth factor-9, FGF 9
SEMA5A	ENSP00000371936	semaphorins, Semaphorin 5A, Sema5A, semF, semaphorin F, Semaf, semaphorin5A, Sema 5A, Semaphorin-5A
SERPINB5	ENSP00000372221	maspin, SERPINB5, PI5, serpin B5, serpin family B member 5

AKT2	ENSP00000375892	AKT2, protein kinase AKT2, PKBbeta, PKB beta, Akt 2, protein kinase Bbeta, Akt-2, PKB-beta, V-Akt Murine Thymoma Viral Oncogene Homolog 2, AKT serine/threonine kinase 2, Protein Kinase B Beta, protein kinase B-beta, 2 X 39
CIAPIN1	ENSP00000377914	Anamorsin, CIAPIN1, cytokine-induced apoptosis inhibitor 1, cytokine induced apoptosis inhibitor 1
DAAM1	ENSP00000378557	DAAM1, Dishevelled-associated activator of morphogenesis 1, dishevelled associated activator of morphogenesis 1, Daam-1, disheveled associated activator of morphogenesis 1
FAF1	ENSP00000379457	hFAF1, Faf1p, FAF1, Fas associated factor 1, Fas-associated factor 1, Fas-associated factor-1, FAF-1
JAK3	ENSP00000391676	Jak3, JAK 3, Janus kinase 3, L-JAK, leukocyte Janus kinase, Jak-3, janus kinase-3, 3LXK
PTPN13	ENSP00000394794	PTP-BL, PTP-Bas, PTPN13, PTPL1, hPTP1E, FAP 1, FAP-1, FAP1, protein-tyrosine phosphatase PTPL1, PTP1E, protein tyrosine phosphatase, non-receptor type 13, protein tyrosine phosphatase PTPL1, tyrosine-protein phosphatase non-receptor type 13, PTPLE, PTPBAS, 3 PDZ, PTPN 13
RHOA	ENSP00000400175	RhoA, Rho family GTPases, rho cDNA clone 12, Rho-family GTPases, Ras homolog gene family, member A, rho A, AR-H12, Rho-A, ras homolog family member A, Ras-Homolog-Family-Member-A
UBE2L3	ENSP00000400906	UbcH7, E2F-1, E2F1, UBE2L3, L-UBC, E2-F1, ubiquitin-conjugating enzyme E2L 3, Ubiquitin-conjugating enzyme E2L3, Ubiquitin-conjugating enzyme E2 L3, ubiquitin conjugating enzyme E2L3, Ubiquitin conjugating enzyme E2 L3
MYD88	ENSP00000401399	MyD88, TIR domain-containing, myeloid differentiation primary response gene, TIR-domain-containing, hMyD88, TIR domain containing, myeloid differentiation primary response 88, MyD-88, Myd88p, Myd 88, myeloid differentiation primary response protein MyD88, TIRdomain-containing, MYD88 p
POLD1	ENSP00000406046	cdc2, POLD, POLD1, POLD1 p, EC 2.7.7.7, cdc2 homolog, cdc-2, cdc 2, poly-merase, DNA polymerase delta catalytic subunit, poly merase

FBP1	ENSP00000408025	FBP1, Fbp, fructose-1, 6-bisphosphatase 1, fructose-1, 6-bisphosphatases, EC 3.1.3.11, fructose-1, 6-bisphosphatase 1, FBP-1, Fructose-1, 6-bisphosphatase-1, liver FBPase, fructose 1, 6-bisphosphatase 1, fructose-bisphosphatase 1, fructose bisphosphatase 1
ADGRL3	ENSP00000422533	Lphn3, Latrophilin-3, LEC3, cl3, ADGRL3, C1RL-3, CL-3, latrophilin 3, latrophilin3, Adhesion G protein-coupled receptor L3
ANGPT1	ENSP00000428340	Ang1, AGP-1, angiopoietin-1, Ang-1, Agpt, ANGPT1, Angiopoietin 1, Ang 1, Angiopoietin1, hAng1, angpt-1, ANGPT 1
CNTN1	ENSP00000447006	contactin-1, cntn1, contactin 1, glycoprotein Gp135, Gp135, CNTN-1, contactin1, HF 3, HF3
APAF1	ENSP00000448165	Apaf-1, Ced-4, Apaf1, apoptotic protease-activating factor-1, apoptotic protease activating factor-1, CED4, apoptotic protease activating factor 1, apoptotic protease-activating factor 1, Apaf 1, apoptotic protease activating factor, apoptotic peptidase activating factor 1, apoptotic-protease-activating factor-1, Apaf, apoptotic peptidase activating factor-1
SLC16A2	ENSP00000465734	MCT8, Monocarboxylate transporter 8, SLC16A2, monocarboxylate transporter-8, DXS128E, Xpct, DXS128, X-linked PEST-containing transporter, SLC 16A2, solute carrier family 16, MCT 8, solute carrier family 16 member 2, hMCT8
RPS19	ENSP00000470972	RPS19, ribosomal protein S19, RPS-19, RPS 19, 40S ribosomal protein S19, RP S19
CCL5	ENSP00000474412	RANTES, CCL5, beta-chemokine RANTES, Scya5, CCL-5, chemokine ligand 5, chemokine (C-C motif) ligand 5, C-C motif chemokine 5, CC motif chemokine ligand 5, C-C motif chemokine ligand 5, chemokine ligand5, HCCL5, small inducible cytokine A5, CCL 5
H3-2	ENSP00000476960	histone H3, histone-H3, histoneH3
PRLR	ENSP00000482954	PRLR, prolactin receptor, hPRL, PRL-R, prolactin-receptor, h-PRL
GRN	ENSP00000053867	Progranulin, granulin, PCDGF, PGRN, granulin precursor, GP88, granulins, CCDS11483.1, Grn, proepithelin, pEPI, gep, Pep-I
HEATR6	ENSP00000184956	ABC1, amplified in breast cancer 1, hABC1, AbC-1, hABC-1, amplified in breast cancer-1, FLJ22087, Amplified-in-breast cancer 1, HEATR6

XBP1	ENSP00000216037	TREB5, XBP-1, XBP1, X-box binding protein 1, X-box-binding protein-1, X-box-binding protein 1, X box-binding protein 1, hXBP-1, X-box binding protein-1, hXBP1, X box binding protein 1, x box-binding protein-1, X box binding protein-1, X-box-binding-protein-1, X-box binding protein1, X-box- binding protein-1
IL1RL1	ENSP00000233954	HT1, ST2, hst-2, ST2L, Hst2, TIR domain containing, IL33R, ST2V, Fit-1, HT-1, FIT1, TIR-domain-containing, IL-33R, IL1RL1, der4, ST-2, HT 1, interleukin-1 receptor-like 1, IL-1RL-1, TIR domain-containing, IL-1RL1, interleukin-1 receptor like 1, interleukin 1 receptor-like 1, Interleukin-1-receptor-like-1, TIRdomain-containing, T1P, interleukin 1 receptor like 1
TWIST1	ENSP00000242261	twist-1, Twist1, H-twist, TWIST 1, TWIST homolog 1, class A basic helix-loop-helix protein 38, bHLHa38, Twist-related protein 1, twist family bHLH transcription factor 1, CRS1, twist basic helix-loop-helix transcription factor 1, hTWIST1, CRS-1
GNRH2	ENSP00000245983	GnRH-II, GnRH II, GnRH2, gonadotropin-releasing hormone 2, LHRH-II, GnRHII, progonadoliberein-2
PLVAP	ENSP00000252590	Plvap, plasmalemma vesicle-associated protein, Plasmalemma Vesicle Associated Protein, fenestrated endothelial-linked structure protein, gp68
TTC9	ENSP00000256367	TTC9, tetratricopeptide repeat domain 9
MARK4	ENSP00000262891	MARKL1, MAP/microtubule affinity-regulating kinase-like 1, MARK4, MAP/microtubule affinity-regulating kinase 4, MARK4L, MARK4S, Microtubule affinity-regulating kinase 4, microtubule-affinity regulating kinase 4, Microtubule Affinity Regulating Kinase 4, Microtubule Affinity-Regulating Kinase4
PLD2	ENSP00000263088	hPLD2, PLD2, phospholipase D2, phospholipaseD2, Phospholipase D-2
APLP2	ENSP00000263574	APLP2, CDEBP, APPL2, APLP-2, APP-H

EPCAM	ENSP00000263735	Ep-CAM, TACSTD1, EPCAM, MK1, KS1/4, Trop-1, epithelial cell-surface antigen, CD326, GA733-2, epithelial cell adhesion molecule, epithelial cell surface antigen, adenocarcinoma-associated antigen, epithelial glycoprotein, TROP1, M4S1, tumor-associated calcium signal transducer 1, EGP314, EGP-2, MOC31, EGP40, MK-1, EsA, EGP2, HEA-125, EGP-314, MOC-31, epithelial-cell adhesion-molecule, epithelial cell-adhesion molecule, EpCAM- human, epithelial-cell adhesion molecule, CD 326, 323/A3
NRP1	ENSP00000265371	NP-1, NRP1, NP1, neuropilin-1, neuropilin1, HNP-1, BDCA-4, neuropilin 1, HNP1, Nrp-1, VEGF165R, Nrp, HNP 1, CD304, BDCA4, NRP- 1
MIR1555P	hsa-miR-155-5p	miR-155, hsa-miR-155, Mir155, miR-155-5p, miR -155, miR- 155, Hsa-miR-155-5p, MiR155-5p
MIR203A	hsa-miR-203a	miR-203, hsa-miR-203, MIR203, miR-203a, hsa-miR-203a, miR203a
MIR2213P	hsa-miR-221-3p	mir-221, miR 221, mir221, hsa-miR-221, miR-221-3p, miR- 221, miR221-3p, hsa-miR-221-3p
MIR5083P	hsa-miR-508-3p	miR-508-3p, miR-508, miR508-3p
MIR5743P	hsa-miR-574-3p	MiR-574-3p, hsa-miR-574-3p, miR-574
MIR613	hsa-miR-613	miR-613
MEG3	MEG3	Gtl2, MEG3, Meg3P, MEG 3, MEG-3, MEG3_2
LET7B5P	hsa-let-7b-5p	let-7b, let7b, hsa-let-7b, Let-7b-5p, hsa-let-7b-5p, hsa-let7b-5p, let 7b, let7b-5p, let- 7b, let7-b
MIR107	hsa-miR-107	miR-107, hsa-miR-107, miR107
MIR1423P	hsa-miR-142-3p	miR-142-3p, hsa-miR-142-3p, miR142-3p, miR-1423p
PINK1	ENSP00000364204	PARK6, PINK1, PTEN-induced putative kinase 1, PINK-1, PTEN induced putative kinase 1, hPINK1, PTEN-induced putative kinase protein 1, BRPK, PINK 1, PARK 6, PTEN-induced putative kinase-1, PTEN-induced putative kinase1, PINK1 p, PTEN-induced putative kinase -1
MLLT3	ENSP00000369695	AF9, AF-9, MLLT3, myeloid/lymphoid or mixed-lineage leukemia; translocated to, 3, MLLT3, super elongation complex subunit
SDC1	ENSP00000370542	Synd1, syndecan-1, syndecans, syndecan, CD138, Syndecan 1, Sdc1, SDC-1, CD 138, sDC, syndecan1, hSDC1, Synd-1, hCD138
TH	ENSP00000370571	tyrosine hydroxylase, DYT14, tyrosine-hydroxylase, tyrosine 3-monooxygenase, EC 1.14.16.2, tyrosine 3-hydroxylase, DYT 1-4, DYT5b, tyrosine 3-mono-oxygenase, Tyrosine-3-monooxygenase

IL6ST	ENSP00000370698	gp130, IL6ST, interleukin-6 signal transducer, gp 130, interleukin 6 signal transducer, cd130, gp-130, IL-6ST, IL-6RB, Interleukin-6-signal transducer
IL33	ENSP00000370842	IL-33, interleukin-33, NF-HEV, IL-1F11, IL33, interleukin 33, hIL-33, IL 33, Interleukin33, Interleukin- 33, Interleukin -33, IL- 33
SOD3	ENSP00000371554	EC 1.15.1.1, EC-SOD, SOD3, EC SOD, sod-3, ecSOD, Superoxide dismutase 3, superoxide dismutase-3, Superoxide Dismutase 3, Extracellular
GPX2	ENSP00000374265	glutathione peroxidase 2, Selenoprotein S, GSHPx-GI, Gpx2, GPX-GI, GI-GPx, gastrointestinal glutathione peroxidase, gastrointestinal-glutathione peroxidase, selenoprotein-S, glutathione peroxidase-2, hgpx2, GPXGI
CCL8	ENSP00000378118	MCP-2, MCP2, hC14, CCL8, monocyte chemotactic protein-2, SCYA8, monocyte chemoattractant protein-2, chemokine ligand 8, chemokine ligand-8, monocyte chemotactic protein 2, CCL-8, MCP 2, C-C motif chemokine ligand 8, chemokine (C-C motif) ligand 8
RUNX3	ENSP00000382800	Runx3, Cbfa3, AML2, AML-2, Runt-related transcription factor 3, RUNX-3, runt-related transcription factor-3, Runx 3, runt related transcription factor 3
CDC42	ENSP00000383118	Cdc42, Rho-family GTPases, Rho family GTPases, G25K, CDC42Hs, 3 VHL, cell division cycle 42, TKs, cell-division cycle 42, CDC42-Hs, Cdc 42, Cdc-42, 1 an 0, cell division control protein 42 homolog, 2 NGR
NRG1	ENSP00000384620	Neuregulin-1, NRG1, NRG-1, HRG-1, neuregulin1, HRG, GGF2, neuregulin 1, GGF, SMDF, hrgA, MSTP131, 1 HAE, HRG1, 1-HRE, hGL
ACAN	ENSP00000387356	aggrecan, AGC1, CSPGCP, ACAN, aggrecan proteoglycan, aggrecan core protein, aggrecan-1, aggrecan core-protein
OPRM1	ENSP00000394624	mu-opioid receptor, MOR, mu opioid receptor, mu opiate receptor, OPRM1, Oprm, mu-type opioid receptor, mu-opioid-receptor, hMOR-1, Mop, mu-opiate receptor, opioid receptor mu 1, opioid receptor mu1, hOPRM1, opioid receptor mu-1, OPRM 1, opioid receptor, mu 1, opioid-receptor mu 1
ALDH3A1	ENSP00000411821	aldehyde dehydrogenases, ALDH3, ALDH3A1, M74542, aldehyde dehydrogenase 3 family member A1, aldehyde dehydrogenase-3
ZNF260	ENSP00000429803	PEX1, Zfp260, Pex1p, PEX 1, PEX1-p

ITGAM	ENSP00000441691	CD11b, Mac-1, integrin alpha subunits, Mac1, ITGAM, integrin alpha-subunits, integrin alpha M, integrin-alpha-M, integrin alpha-M, integrin alphaM, hCD11b, complement component 3 receptor 3 subunit, integrin subunit alpha M
PTH LH	ENSP00000441765	Pthlh, PTHrP, Plp, Parathyroid hormone-like hormone, parathyroid hormone-related protein, PThr, parathyroid hormone related protein, osteostatin, parathyroid-hormone-related protein, P-thr, PTH-R, PTH-rP, ParaThyroid Hormone Like Hormone, parathyroid hormonelike protein, parathyroid hormone-like protein, parathyroid-hormone like hormone, P-LP, Parathyroid hormone related-protein, PHrP, parathyroid-hormone-like hormone, Parathyroid hormone--related protein
PFKFB3	ENSP00000443319	PFKFB3, PFK-2, iPFK-2, PFKFB-3, 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase-3, PFK2, 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase 3, 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase 3, iPFK2, 6-phosphofructo-2-kinase/fructose 2, 6-bisphosphatase-3, 6-Phosphofructo 2-kinase/fructose 2, 6-bisphosphatase 3
USP10	ENSP00000457411	USP10, ubiquitin-specific peptidase 10, ubiquitin specific protease 10, ubiquitin-specific protease 10
SIRT5	ENSP00000476228	SIRT5, sirtuins, sirtuin, sirtuin 5, Sirtuin5
EWSAT1	EWSAT1	EWSAT1, LINC00277

CSF2	ENSP00000296871	GM-CSF, granulocyte-macrophage colony-stimulating factor, Csf2, GMCSF, granulocyte-macrophage colony stimulating factor, granulocyte macrophage-colony-stimulating factor, granulocyte macrophage colony-stimulating factor, granulocyte-macrophage-colony stimulating factor, granulocyte-macrophage-colony-stimulating factor, granulocyte macrophage colony stimulating factor, granulocyte macrophage-colony stimulating factor, granulocyte-macrophage- colony-stimulating factor, colony-stimulating factor-2, G-CSF, granulocyte macrophage colony-stimulating factor, sargramostim, colony-stimulating factor 2, colony stimulating-factor, colony stimulating factor 2, colony-stimulating-factor, colonystimulating factor, colony stimulating factor 2 (granulocyte-macrophage, granulocyte-macrophage colony-stimulating-factor, Csf-2, granulocyte macrophage colonystimulating factor, GM - CSF, colony- stimulating factor, Csf, granulocyte-macrophage--colony-stimulating factor, Colony stimulating factor-2
DEFB1	ENSP00000297439	beta-defensin-1, HBD-1, beta-defensin 1, BD1, beta defensin-1, Hbd1, Defb1, BD-1, beta defensin 1, defensin beta-1, defensin beta 1, DEFB 1
TK1	ENSP00000301634	TK2, TK1, thymidine kinase 1, TK-1, EC 2.7.1.21, Thymidine kinase-1, 2 or V, EC2.7.1.21, thymidine Kinase1, TK 1, TK 2
SOST	ENSP00000301691	SOST, sclerostin, cdd
ABCA3	ENSP00000301732	ABCA3, ABC-C, ABC3, ABCC, hABCA3, LBM180, ATP-binding-cassette subfamily A member 3, ATP binding cassette subfamily A member 3, A-B-C-C, ATP binding cassette, subfamily a, member 3, ATP-binding cassette subfamily A member 3, ATP-binding cassette subfamily A, ATP-binding cassette transporter 3, ATP binding cassette subfamily A, ATP-binding cassette sub-family A member 3
DNAJB7	ENSP00000307197	HSC-3, HSC3, DNAJB7
MLKL	ENSP00000308351	mixed lineage kinase domain-like protein, MLKL, Mixed lineage kinase domain-like, mixed lineage kinase domain-like pseudokinase, mixed lineage kinase domain like, mixed-lineage kinase domain-like protein, mixed lineage kinase domain like protein, mixed-lineage kinase domain-like, mixed lineage kinase domain like pseudokinase, mixed-lineage kinase domain-like pseudokinase

CCL19	ENSP00000308815	CCL19, ELC, SCYA19, EBI1-ligand chemokine, CC chemokine ligand 19, CK beta-11, CK beta 11, macrophage inflammatory protein-3beta, Epstein-Barr virus-induced molecule 1 ligand chemokine, macrophage inflammatory protein-3 beta, EBI1 ligand chemokine, CCL-19, C-C chemokine ligand 19, CC motif chemokine ligand 19, Chemokine (C-C motif) ligand 19, CC-chemokine ligand 19, C-C motif chemokine ligand 19, C-C motif chemokine 19, CCL 19
NLRP6	ENSP00000309767	hPan3, NLRP6, PYPAF5, PAN-3, PAN3, NLR family, pyrin domain containing 6
FOSL1	ENSP00000310170	fra-1, fra, Fosl1, fos-related antigen-1, F-R-A, fra1, Fos-related antigen 1, FOS-like antigen 1, Fos related antigen-1, Fos related antigen 1, Fos transcription factor family, Fosl-1, FOS-like antigen-1, FOS like antigen 1, FOS like 1, AP-1 Transcription Factor Subunit
EDNRA	ENSP00000315011	Ednra, ETA, endothelin receptor type A, ETA-R, ET-A, ET A, ET-RA, ETAR, Endothelin-1 receptor, ET AR, ETRA, endothelin 1 receptor, endothelin-1-receptor, ET-Ar
PKM	ENSP00000320171	PKM, p58, PKM2, EC 2.7.1.40, p 58, cytosolic thyroid hormone binding protein, PK3, PK-3, p5-8, tumor M2-PK, PK-M, PK-M2, pyruvate kinase, muscle, PK2, P58P, pyruvate kinase PKM, PKM-2, pyruvate kinase muscle isozyme, Pyruvate Kinase M1/2, 3-M E3
P4HB	ENSP00000327801	p55, protein disulfide isomerase, PDI, P4H-beta, PDIA1, P4HB, protein disulfide-isomerase, ERBA2L, protein-disulfide isomerase, cellular thyroid hormone-binding protein, EC 5.3.4.1, cellular thyroid hormone binding protein, proHB, pro-HB, p 55, prolyl 4-hydroxylase, beta polypeptide, HP55, G-IT, CLCRP1, prolyl 4-hydroxylase subunit beta, PD-I
SIRT7	ENSP00000329466	sirtuin, SIRT7, sirtuins, Sirtuin 7, Sirtuin7, Sirtuin-7
ALDH1A3	ENSP00000332256	Aldehyde dehydrogenase 6, ALDH1A3, aldehyde dehydrogenases, ALDH6, Raldh3, Aldehyde dehydrogenase 1 family, member A3, retinaldehyde dehydrogenase 3, raldh-3, aldehyde dehydrogenase1family memberA3, aldehyde dehydrogenase 1 family member A3

PTGDR2	ENSP00000332812	GPR44, CRTH2, chemoattractant receptor-homologous molecule expressed on Th2 cells, DP2, DP-2, chemoattractant receptor-homologous molecule expressed on T helper type-2 cells, chemoattractant-receptor homologous molecule expressed on Th2 cells, CD294, hCRTh2, chemoattractant receptor homologous molecule expressed on T helper type 2 cells, Chemoattractant receptor-homologous molecule expressed on T helper type 2 cells, prostaglandin D2 receptor 2, HDP2, PTGDR2, Chemoattractant Receptorhomologous molecule expressed on Th2 cells
CDKN3	ENSP00000335357	cyclin-dependent kinase inhibitor, hKAP1, KAP1, CKI, Cdc14 phosphatases, KAP-1, CDKN3, Cdi1, cyclin dependent kinase inhibitor, CDKI, cyclindependent kinase inhibitor, cyclin-dependent kinase interactor 1, cyclin dependent-kinase inhibitor, CIP2, kinase-associated phosphatase, CDK-I, cyclin-dependent kinase inhibitor 3, kap, cyclin-dependent-kinase inhibitor, KAP 1, cyclin-dependent kinase inhibitor-3, cyclin dependent kinase inhibitor 3, cyclin dependent kinase-inhibitor, cyclin-dependent-kinase-Inhibitor
SIRT6	ENSP00000337332	sirtuins, SIRT6, sirtuin 6, Sirtuin, Sirtuin-6, SIRT-6, Sirtuin6, SIRT 6
TRPC6	ENSP00000340913	TRPC6, hTRPC6, Trp6, transient receptor potential cation channel, subfamily C, member 6, TRPC-6, TRPC6 p, transient receptor potential cation channel subfamily C member 6
UGT2B15	ENSP00000341045	UGT2B15, HLUG4, UGT2B8, UDP-glucuronosyltransferase 2B15, UDP-glucuronosyltransferase 2 B15
PTN	ENSP00000341170	Pleiotrophin, PTN, harp, HB-GAM, Osf1, heparin-binding growth-associated molecule, HBNF, OSF-1, Heparin-binding growth associated molecule
TRPV2	ENSP00000342222	TRPV2, VRL-1, transient receptor potential cation channel subfamily V member 2, Transient receptor potential cation channel, subfamily V, member 2
CTSB	ENSP00000345672	cathepsin B, cathepsin S, APPs, APP secretase, cathepsins, CTSB, cathepsin-B, cathepsinB, cathepsin-S, cathepsin B1, APP s, APP-secretase

ARNT	ENSP00000351407	ARNT, TANGO, aryl hydrocarbon receptor nuclear translocator, HIF-1beta, arylhydrocarbon receptor nuclear translocator, HIF-1 beta, HIF1beta, hypoxia-inducible factor 1 beta, hypoxia inducible factor 1beta, hypoxia-inducible factor 1beta, Hif1b, hypoxia-inducible factor-1 beta, HIF-1b, Aryl hydrocarbon receptor nuclear-translocator, Aryl hydrocarbon-receptor nuclear translocator, 5NJ8
FUT4	ENSP00000351602	CD15, FUT4, ELAM-1 ligand fucosyl transferase, ELAM ligand fucosyltransferase, Fuc-TIV, fucosyltransferase IV, SSEA1, FucT-IV, fucosyltransferase 4, FucTIV, CD 15, FUT IV, SSEA-1, LeX, Fucosyltransferase-4, fucosyltransferase4, Fuc-T IV
CNTNAP2	ENSP00000354778	Caspr2, CNTNAP2, Contactin Associated Protein-Like 2, Contactin-associated protein-like 2, CNTNAP2-001, contactin-associated proteinlike 2
S100A7	ENSP00000357712	S100A7, psoriasin, PSOR1, S100A7-c, hS100A7, S100 calcium-binding protein A7
PPA1	ENSP00000362329	PP1, HPP1, PP-1, PPase, inorganic pyrophosphatase, PP 1, PPA1, HPP-1, HP-P1, Cytosolic inorganic pyrophosphatase, Pyrophosphatase-1, Pyrophosphatase 1
NPY4R	ENSP00000363431	PP1, HPP1, PP-1, hY4, Ppyr1, PP 1, HPP-1, HP-P1, neuropeptide Y receptor Y4, NPY4R
EIF6	ENSP00000363574	eIF6, p27(BBP, eIF3a, p27BBP, ITGB4BP, Cab, integrin beta 4 binding protein, Ca-B, eukaryotic translation initiation factor 6
FKBP4	ENSP00000001008	FKBP52, p52, FKBP51, Hb I, FKBP59, 52-kDa FK506-binding protein, FKBP4, hFKBP52, 52-kDa FK506 binding protein, immunophilin FKBP52, PPIase, 51-kDa FK506-binding protein, hSP56, rotamase, immunophilin FKBP-52, FKBP-59, FKBP-52, P5-2, FKBP-51, FK506-binding protein 4, FKBP-4, FK506 binding protein 4, 51 kDa FK506-binding protein
SIRT4	ENSP00000202967	sirtuins, SIRT4, sirtuin, Sirtuin 4, sirtuin-4, Sirtuin4
GCK	ENSP00000223366	glucokinase, Gck, EC 2.7.1.2, GLK, hK4, hexokinase 4, 3 IDH, hexokinase D
NFKB1	ENSP00000226574	p50, p105, Nfkb1, Ebp1, KBF1, NFKBp50, P 5 0, nuclear factor of kappa light polypeptide gene enhancer in B-cells 1, NF-KB1, NF-kB p50, nuclear factor kappa-B subunit 1, NF-kB-p50, NFKB p50, nuclear factor of kappa light polypeptide gene enhancer in B cells 1, HP 50, nuclear factor kappa B subunit 1, NF-kBp50
HRG	ENSP00000232003	histidine-rich glycoprotein, HRGP, HRG

NUDCD1	ENSP00000239690	CML66, OVA66, AF283301, NudCD1, NudC domain containing 1, NudC family
LRP1	ENSP00000243077	CD91, alpha 2-macroglobulin receptor, LRP1, Low-density lipoprotein receptor-related protein 1, LDL receptor-related protein-1, low density lipoprotein receptor-related protein-1, A2MR, apolipoprotein-E receptor, low density lipoprotein receptor-related protein 1, alpha-2-macroglobulin receptor, Lrp, apolipoprotein E receptor, LDL receptor-related protein 1, A2M-r, low-density-lipoprotein receptor-related protein 1, LRP-1, CD 91, low-density lipoprotein receptor related protein 1, low-density lipoprotein receptor-related protein-1, alpha2-macroglobulin receptor, low density lipoprotein receptor related protein-1, LDL receptor related protein-1, low-density lipoprotein receptor-related protein1, IGFBP-3R, Low density lipoprotein receptor related protein 1, low-density-lipoprotein receptor-related protein-1, BC072015, LRP1 - A, prolow-density lipoprotein receptor-related protein 1, LRP 1, aPR, low-density lipoprotein receptor related protein-1, alpha 2 macroglobulin receptor, alpha 2Macroglobulin receptor
KLF2	ENSP00000248071	LKLF, Kruppel-like factor 2, KLF2, lung Kruppel-like factor, Kruppel-like factors, Lung-Kruppel-like factor, Kruppel-like Factor2, hKLF2, KLF-2, Kruppel like factor 2, Krueppel-like factor 2
PEX1	ENSP00000248633	PEX1, peroxins, Pex1p, peroxin 1, peroxisomal biogenesis factor 1, Peroxin1, PEX 1, peroxisome biogenesis factor 1, PEX1-p
LRPPRC	ENSP00000260665	gp130, LRPPRC, gp 130, lrp130, leucine-rich pentatricopeptide repeat containing, 130-kDa leucine-rich protein, leucine-rich pentatricopeptide repeat-containing, lrp 130, gp-130, Leigh Syndrome, French-Canadian Type, leucine-rich pentatricopeptide-repeat containing
CCNE1	ENSP00000262643	Cyclin E1, Cyclin Es, CCNE1, Cyclin ET, CCNE, CyclinE1, G1/S specific cyclin E1, cyclin-E1
IL7	ENSP00000263851	IL-7, interleukin 7, interleukin-7, IL7, hIL-7, hIL7, IL- 7
ZAP70	ENSP00000264972	ZAP-70, Zap70, 4a4b, Zeta-chain (TCR)-associated protein kinase 70 kDa, StD, ZAP 70, Srk, zeta-chain (TCR) associated protein kinase 70kDa, 4a-4c, St-D, s t d

ASCL1	ENSP00000266744	Mash1, achaete-scute homolog-1, ASCL1, achaete-scute family bHLH transcription factor 1, hASH1, Mash-1, HASH-1, ash1, achaete-scute homolog 1, ASH-1, achaete-scute complex homolog-like 1, Achaete-scute complex-like 1, Hash 1, ASCL-1, achaete-scute complex homolog 1, Achaete-scute complex homolog-1
NPC1	ENSP00000269228	NPC1, Niemann-Pick C1 protein, NP-C1, Niemann-Pick disease, type C1, Niemann Pick C1 protein, hNPC1, npc-1, NPC1 human, NP-C 1, Niemann Pick Disease, Type C1, NPC 1, NPC intracellular cholesterol transporter 1
REN	ENSP00000272190	renin, REN, EC 3.4.23.15, re- N
CRH	ENSP00000276571	CRH, corticotropin-releasing hormone, CRF, Corticotropin-releasing factor, CRH-1, corticotropin releasing hormone, C Rh, CRH1, corticotropin releasing factor, corticotropin- releasing hormone, CRH 1, corticotropin releasing-factor, Corticotropin releasing-hormone, corticotropin-releasing-factor, corticotropin-releasing-hormone
TM7SF2	ENSP00000279263	Ang1, Ang-1, TM7SF2, C14 sterol reductase, Ang 1, transmembrane 7 superfamily member 2
PDCD4	ENSP00000280154	PDCD4, programmed cell death 4, programmed cell death protein 4, Programmed cell death 4, PDCD-4, programmed cell death protein4, programmed cell death4, programmed cell death protein-4
ADAMTS5	ENSP00000284987	ADAM-TS5, ADAMTS5, ADAMTS-5, ADAMTS11, aggrecanase-2, a-disintegrin and metalloproteinase with thrombospondin motifs-5, ADAMTS5-P, ADAMTS 5, ADAM metalloproteinase with thrombospondin type 1 motif 5, aggrecanase -2
PART1	PART1	PART-1, PART1
ERCC1	ENSP00000013807	ERCC1, RAD10, ERCC-1, UV20, excision repair cross complementation group 1, Excision repair cross-complementation group 1, excision repair cross-complementing rodent repair deficiency, complementation group 1, excision repair cross-complementation group-1, ERCC 1, Excision repair cross complementation group-1, Excision repair cross complementation group 1, 2 mut, Excision-Repair Cross-Complementation Group 1, AC138128, 2mut, Excision repair cross-complementation group1, excision repair cross- complementation group 1
CLDN11	ENSP00000064724	Oligodendrocyte-specific protein, OSP, CLDN11, claudin 11, claudin-11, Claudin11, Cldn-11

TNFRSF1A	ENSP00000162749	TNFR1, TNFR, TNFRI, TNFRSF1A, TNF-RI, TNF-R1, p60, p55, TNF-R, TBP-1, tumor necrosis factor receptor 1, CD120a, TBP1, MS-5, tumor necrosis factor receptor-1, TNFR-1, TNF-R55, TNFR-I, MS5, p55-R, tumor necrosis factor receptor type I, TNF receptor superfamily member 1A, TNFR60, TNFR 1, TNF-R-I, tumor-necrosis-factor-receptor 1, tumor necrosis factor-receptor 1, TNF R55, TNFRSF 1A, TNFR-SF1A, tumor necrosis factor receptor superfamily member 1A, p 55, TNFR I, TNF R I, TNF RI, tumor necrosis factor receptor superfamily, member 1a, HP55, 1 ICH, 1 TNR, TNFR55, hTNF-R55, TNFR-55, TNF-R 1, TNF- R55
BDKRB1	ENSP00000216629	Bdkrb1, BDKRB2, B1 bradykinin receptor, B1R, B1 R, bradykinin receptor B1, BKR1, BKB1R
CYP24A1	ENSP00000216862	CYP24, Cyp24a1, P450cc24, CYP-24, HCa-I, cytochrome P450, family 24, subfamily A, polypeptide 1, cytochrome p450 24A1, hCA I, cytochrome P450 family 24 subfamily A member 1, CP24
CSNK2A1	ENSP00000217244	CKII, CSNK2A1, casein kinase II subunit alpha, CK-II, CK II, 3 at 3, 3 at 4, casein kinase 2, alpha 1 polypeptide, 5 MMR, 3 h 30, Cka1, Casein kinase 2 a1, 5 HGV
ABCD1	ENSP00000218104	ALDP, adrenoleukodystrophy protein, ABCD1, ATP-binding cassette, subfamily D, member 1, ATP-binding cassette, sub-family D, member 1, amn, AM N, ABCD1 p, ATP binding cassette subfamily D member 1, ALD-P
CCL22	ENSP00000219235	ABCD1, CCL22, mDC, SCYA22, macrophage-derived chemokine, macrophage derived chemokine, macrophage-derived-chemokine, chemokine (C-C motif) ligand 22, C-C motif chemokine 22, C-C motif chemokine ligand 22, CCL-22, Ccl 22
PLAT	ENSP00000220809	tPA, t-PA, PLAT, tissue-type plasminogen activator, Tissue type plasminogen activator, tissue-type plasminogen-activator, tissue type-plasminogen activator, plasminogen activator, tissue, plasminogen activator, tissue type, reteplase, Alteplase
KLRK1	ENSP00000240618	NKG2D, KLR, NKG2-D, KLRK1, killer-cell lectin-like receptors, killer cell lectin-like receptors, NKG2D activating NK receptor, killer cell lectin like receptor K1, killer cell lectin-like receptor subfamily K, member 1
IRF1	ENSP00000245414	IRF-1, interferon regulatory factor 1, IRF1, interferon-regulatory factor-1, interferon regulatory factor-1, mAR, interferon-regulatory factor 1, IRF 1, MA-R

TRAF2	ENSP00000247668	TRAF2, TRAF-2, TNF receptor-associated factor 2, TR AF-2, TNF receptor-associated factors, TNF-receptor associated factors, TRAF 2, TNF receptor-associated factor-2, 1-CA4, TNF receptor-associated-factor 2, TNF-receptor-associated factor-2, TNF-receptor associated factor 2, TNF receptor associated factor 2, TRAF, TNF Receptor Associated Factors, TNF-receptor-associated factors
ALOX12	ENSP00000251535	12-LO, arachidonate 12-lipoxygenase, EC 1.13.11.31, ALOX12, 12-LOX, 12LO, ALOX-12, ALOX 12
KRT1	ENSP00000252244	hCK1, keratin 1, HK1, KRT1, HK 1, Krt-1, Ehk-1, Ehk, cytokeratin 1, HK-1, keratin-1, HKRT-1, K-Rta, cytokeratin-1, keratin1, K1p
NUMBL	ENSP00000252891	Numbl like, NUMBL, Nbl, CTG3a, NUMB-like, Numb homolog-like, N-bl
CYP27A1	ENSP00000258415	CP27, CYP27, vitamin D(3) 25-hydroxylase, sterol 27-hydroxylase, CYP27A1, CTx, CYP 27, M62401, CP 27, sterol 27 hydroxylase, sterol-27-hydroxylase, cytochrome P450, family 27, subfamily A, polypeptide 1
FLT4	ENSP00000261937	VEGFR-3, FLT4, VEGFR3, vascular endothelial growth factor receptor 3, fms-like tyrosine kinase 4, fms-related tyrosine kinase-4, vascular endothelial growth factor receptor-3, FLT-4, fms-related tyrosine kinase 4, VEGF-R3, VEGF R3
SLC1A1	ENSP00000262352	EAAC1, Slc1a1, Excitatory amino-acid carrier 1, EAAT3, excitatory amino acid carrier-1, hEAAT3, Solute carrier family 1, member 1, EAAC-1, neuronal and epithelial glutamate transporter, excitatory amino acid carrier 1, excitatory amino acid transporter-3, solute carrier family 1, member1, excitatory amino acid transporter 3

PIK3CA	ENSP00000263967	p110alpha, PIK3CA, PI3Kalpha, p110 alpha, PI3-Kalpha, 5 ITD, p110-alpha, phosphoinositide-3-kinase, catalytic, a polypeptide, phosphoinositide-3-kinase, catalytic, alpha polypeptide, Phosphoinositide-3-kinase catalytic alpha polypeptide, phosphoinositide 3 kinase catalytic alpha polypeptide, PIK 3CA, phosphatidylinositol-4, 5-bisphosphate 3- kinase, catalytic subunit alpha, PI3K-p, PIK3CA p, phosphatidylinositol-4, 5-bisphosphate 3-kinase, catalytic subunit alpha, phosphatidylinositol-4, 5-bisphosphate 3-kinase catalytic subunit alpha, phosphatidylinositol-4, 5-bisphosphate 3-kinase, catalytic subunit alpha, phosphatidylinositol-4, 5-bisphosphate 3-kinase catalytic subunit alpha, PI3K alpha, phosphatidylinositol-4, 5-bisphosphate 3-kinase-catalytic subunit alpha, phosphatidylinositol 4, 5-bisphosphate 3-kinase catalytic subunit alpha, PI3K p, phosphatidylinositol -4, 5-bisphosphate 3-kinase catalytic subunit alpha, PI3K-alpha, phosphoinositide 3-kinase, catalytic, alpha polypeptide, M-CAP, PIK3 CA
IL11	ENSP00000264563	IL-11, IL11, interleukin-11, interleukin 11, IL 11, interleukin11, hIL-11
VCAN	ENSP00000265077	Versican, PG-M, Cspg2, large fibroblast proteoglycan, ERVR, VCAN, versican proteoglycan, glial hyaluronate-binding protein, WGN1, pgm, Chondroitin sulfate proteoglycan 2, chondroitin sulfate proteoglycan2, versican core protein
AMBP	ENSP00000265132	HCP, lipocalins, protein HC, Ambp, bikunin, HI-30, alpha 1-microglobulin/bikunin precursor, inter-alpha-trypsin inhibitor light chain, complex-forming glycoprotein heterogeneous in charge, alpha1-microglobulin/bikunin precursor, A1M, trypstatin, HC P, EDC1
GABARAPL1	ENSP00000266458	gac1, Apg8L, Atg8, gamma-aminobutyric acid receptor-associated protein-like 1, GABARAP-L1, GABARAPL1, GABA(A) receptor-associated protein like 1, ATG8b, GABARAPL-1, GABA type A receptor-associated protein like-1
BCL2A1	ENSP00000267953	BCL2 family, BCL2A1, ACC1, Bfl-1, BCL-2 family, ACC2, GRs, Bcl-2-family, Bcl-2-related protein A1, ACC-1, BFL1, ACC-2, BCL2-family, BCL2-related protein A1, protein Bfl-1, Bcl-2A1, Bcl2-A1, HBPA1, Bcl 2-family, hBfl-1, BCL2 Related Protein A1

MAP1LC3B	ENSP00000268607	MAP1LC3B, LC3B, microtubule-associated proteins 1A/1B light chain 3B, microtubule-associated protein 1 light chain 3beta, microtubule-associated protein 1 light chain-3B, microtubule-associated protein 1 light chain 3B, LC-3B, microtubule-associated protein 1 light chain 3 beta, LC3-B, microtubule associated protein 1 light chain 3 B, microtubule associated protein 1 light chain 3 beta, autophagy-related protein LC3B, microtubule-associated protein-1 light chain 3b, microtubule-associated protein-1 light chain-3B, microtubule-associated protein 1 light chain 3 beta, microtubule associated protein 1 light chain 3-B
WIF1	ENSP00000286574	Wnt-inhibitory factor-1, WIF-1, WIF1, Wnt inhibitory factor 1, Wnt inhibitory factor-1
ADAMTS3	ENSP00000286657	ADAMTS4, ADAMTS-4, ADAMTS3, KIAA0366, ADAM-TS3, ADAM-TS4, ADAMTS-3, ADAMTS 3, ADAM metalloproteinase with thrombospondin type 1 motif 3
CLDN12	ENSP00000287916	CLDN12, claudin-1-2, claudin-12
SMAD6	ENSP00000288840	Smad6, MADH6, Smad family, Smad 6, Madh7, Smad-6, SMAD family member 6
SYK	ENSP00000364907	Syk, Spleen Tyrosine Kinase, p72syk, spleen-tyrosine kinase, spleen tyrosine kinase, spleen associated tyrosine kinase, tyrosine-protein kinase SYK, spleen-associated tyrosine kinase
TNFRSF25	ENSP00000367013	wsl, TR3, WSL-1, DR3, TNFRSF25, Death receptor-3, hTR3, LARD, Apo3, Apo-3, death receptor 3, lymphocyte-associated receptor of death, DR-3, TNFRSF12, DR 3, Apo 3, D-R3, death-receptor 3, TR 3, hTR 3
HAO1	ENSP00000368066	GOX, HAOX1, HAO1, hydroxyacid oxidase 1
NPHS1	ENSP00000368190	nephrin, NPHS1, AF035835, NPHS 1, NPHS-1, cNF
SERPINB9	ENSP00000370074	PI9, PI-9, SERPINB9, Serpin B9
TANK	ENSP00000376505	TRAF2, I-TRAF, TRAF-2, TANK, Traf family member-associated NF-kappaB activator, TRAF interacting protein, TRAF-interacting protein, TR AF-2, TRAF 2, TRAF family member-associated NFkappaB activator, TRAF family member-associated NF-kappa-B activator
PTPA	ENSP00000377036	PP2A, PTPA, phosphotyrosyl phosphatase activator, PP-2A, PPP2R4, protein phosphatase 2 phosphatase activator, PP 2A
KIF20A	ENSP00000378356	RAB6KIFL, Rabkinesin6, MKlp2, Kif20A, rabkinesin-6, GG10_2, Kinesin family member 20A

TYMP	ENSP00000379038	thymidine phosphorylase, gliostatin, PD-ECGF, ECGF1, platelet-derived endothelial cell growth factor, TYMP, hPD-ECGF, endothelial cell growth factor 1, PDECGF, platelet-derived endothelial-cell growth factor, platelet derived endothelial cell growth factor, ECGF, endothelial cell growth factor-1, ECGF 1, endothelial-cell growth factor-1, ECGF-1, EC 2.4.2.4, Platelet-derived endothelial cell growth-factor, platelet derived-endothelial cell growth factor, thymidine-phosphorylase
DAPK1	ENSP00000386135	DAPK1, DAPK, death-associated protein kinase-1, death-associated protein kinase 1, DAPK 1, DAPK-1, DAP-K, death associated protein kinase-1, Death associated protein kinase 1, Death-associated protein kinase1, death-associated protein kinases
PTPN6	ENSP00000391592	SHP-1, HCP, Hcph, PTPN6, protein-tyrosine phosphatase SHP-1, SHP1, PTP1C, protein tyrosine phosphatase SHP-1, protein tyrosine phosphatase 1C, protein tyrosine phosphatase, nonreceptor type 6, hematopoietic cell protein-tyrosine phosphatase, SH-PTP1, protein-tyrosine phosphatase SHP1, protein tyrosine phosphatase, non-receptor type 6, SHP-1L, SHPTP1, HC P, PTP-1C, tyrosine-protein phosphatase non-receptor type 6, SHP -1
TOP2B	ENSP00000396704	DNA topoisomerase IIbeta, TOP2B, TOP2beta, topoisomerase (DNA) IIbeta 180 kDa, DNA topoisomerase II beta, TOP2 beta, 3QX3, DNA topoisomerase IIb
MAP2K4	ENSP00000410402	SEK1, mitogen-activated protein kinase kinase 4, MKK4, MAP2K4, JNKK1, JNKK, JNK-activating kinase 1, sek-1, mitogen activated protein kinase kinase 4, MEK4, SAPK/ERK kinase-1, SAPK/ERK kinase 1, SERK1, stress-activated protein kinase kinase 1, MEK-4, mitogen-activated protein kinase kinase-4, MAPKK4, mkk-4, SKK-1
SLC35A2	ENSP00000416002	UGT, HUGT1, UGT2, Ugt1, SLC35A2, HUGT2, UDP-galactose transporter, UGT-1, UDP-galactose translocator, ugtL, UGT-2
CXCL2	ENSP00000427279	CXCL2, MIP-2, GRO2, CXCL-2, chemokine ligand 2, MIP2, macrophage inflammatory protein 2 alpha, GRO-2, chemokine ligand-2, GR-Ob, chemokine (C-X-C motif) ligand 2, HMIP-2, C-X-C motif chemokine ligand 2, HMIP-2A, C-X-C motif chemokine ligand-2, CXC motif chemokine ligand 2
CCNE2	ENSP00000429089	Cyclin E2, CCNE2, cyclinE2

GSDMD	ENSP00000433209	DFNA5L, GSDMD, gasdermins, gasdermin-D, gasdermin D, GSDMDC1
H2AX	ENSP00000434024	H2AX, H2A.X, H2AFX, histone H2AX, histone H2A.X, H2A histone family member X, H2A histone family, member X
TLR5	ENSP00000440643	TLR5, Toll-like receptor 5, Sle1, TIL3, hSLE1, TLR-5, TLR 5, toll like receptors, Toll-like receptor-5, Tlr, toll- like receptors, Toll like receptor 5, Toll-Like-Receptors, toll-like receptor5
HSD3B2	ENSP00000445122	HSD3B2, HSD3B, HSD3B2 p
VDR	ENSP00000447173	vitamin D receptor, vitamin D-receptor, Vdr, 1, 25-dihydroxyvitamin D3 receptor, vitamin-D receptor, vitamin D3 receptor, vitamin-D-receptor, 1, 25-dihydroxyvitamin D-3 receptor, NR 111, NR111, vitamin D receptor, vitamin D (1, 25-dihydroxyvitamin D3) receptor, 2 Has
TRAF3	ENSP00000454207	TNF receptor-associated factors, TRAF3, LAP1, TNF receptor-associated factor 3, c-raf1, c-raf-1, CRAF1, CD40-binding protein, Lap-1, CAP-1, c-raf 1, CD40 binding protein, Cap1, LMP1-associated protein 1, TNF-receptor associated factors, TRAF-3, TNF-receptor-associated-factor 3, cRaf-1, TRAF, TNF Receptor Associated Factors, ZINC fingers, TNF-Receptor Associated Factor 3, TRAF 3, TNF receptor associated factor 3, TNF-receptor-associated factors, C AP1, Cap1p
HAMP	ENSP00000471894	Hepcidin, HEPC, Hamp, hepcidin antimicrobial peptide, LEAP-1, pLTR, liver-expressed antimicrobial peptide 1, LEAP 1
STIM1	ENSP00000478059	STIM1, stromal interaction molecule 1, STIM1 p, STRMK, Tam-1, D11S4896E, GOK, stromal interaction molecule1, Stromal-interaction molecule 1, STIM 1, STIM-1, stromal interaction molecule-1, TAM1
VPS11	ENSP00000481126	VPS11, VPS 11, Vacuolar Protein Sorting 11, END1, END-1, pep5
MIR1013P	hsa-miR-101-3p	miR-101, miR-101-2, MIR101, hsa-miR-101, miR-101-3p, miR- 101, hsa-miR-101-3p
MIR1256	hsa-miR-1256	miR-1256
MIR200B3P	hsa-miR-200b-3p	miR-200b, hsa-miR-200b, MIR200B, miR-200b-3p, miR-200 b, hsa-miR-200b-3p, miR 200b, miR200b-3p, miR- 200b
MIR2233P	hsa-miR-223-3p	miR-223, miR-223-3p, miR- 223, miR223, hsa-mir-223, miR223-3p, hsa-miR-223-3p, miR- 223-3p, miR-223 3p
MIR29A3P	hsa-miR-29a-3p	miR-29a, miR-29a-3p, miR29a, hsa-miR-29a, hsa-miR-29a-3p

MIR29B3P	hsa-miR-29b-3p	miR-29b, miR-29b-3p, miR29b, hsa-miR-29b, miR 29b, hsa-miR-29b-3p, hsa-miR29b-3p
MIR374B5P	hsa-miR-374b-5p	miR-374b, MiR-374b-5p, hsa-miR-374b-5p, miR374b
MIR4235P	hsa-miR-423-5p	MiR423-5p, hsa-miR-423-5P, miR-423-5p
MIR520B	hsa-miR-520b	miR-520b
BTG2	ENSP00000290551	BTG2, TIS21, HPC3, PC-3P, HPC-3, B-cell translocation gene 2, B cell translocation gene 2, B-cell translocation gene-2, Btg/Tob family, BTG-2
CAPN2	ENSP00000295006	calpain 2, CAPN2, mCANP, Calpain-2, calpain2
HPGDS	ENSP00000295256	PGDS, H-PGDS, glutathione-S-transferase, GSTs, GST, EC 2.5.1.18, 5 AIS, hPGDS, glutathione S transferase, glutathione S -transferase, Glutathione s-transferase, hematopoietic prostaglandin D synthase, Glutathione- S-transferase, GST-S, glutathione S- transferase, glutathione-S transferase, GST s, g lutathione S-transferase, prostaglandin-H2 D-isomerase, GSTs1, Ptgds2
PTX3	ENSP00000295927	Ptx3, Pentraxin 3, long pentraxin 3, TSG-14, Ptx-3, pentraxin-3, pentraxin3, long pentraxin-3, hPTX3, PTX 3, Pentraxin 3, long, long-pentraxin 3
SYN1	ENSP00000295987	Synl, Synapsin I, synapsins, SYN1, synapsin 1, synapsin-I, Syn-1, synapsin-1, Syn I, Syn-1A, syn1a, Syn-I, hSYN1, Synapsin1, Syn 1
ITGA2	ENSP00000296585	collagen receptor, GPIa, integrin subunit alpha 2, GP Ia, ITGA2, integrin alpha subunits, GPI-A, CD49B, platelet membrane glycoprotein Ia, integrin alpha-subunits, Integrin alpha 2, integrin subunit alpha2, HPA-5, integrin alpha2, integrin-alpha2, Integrin alpha-2, Integrin, alpha 2, collagen-receptor, HPA5, HPA- 5
SCIN	ENSP00000297029	scinderin, adseverin, SCIN
USP32	ENSP00000300896	USP32, USP10, NY-REN-60, NY-Ren60, Ubiquitin specific protease 32
TACR1	ENSP00000303522	spr, NK1R, NK-1 receptor, NK-1R, NK1 receptor, TACR1, substance P receptor, NKIR, tachykinin receptor 1, substance P-receptor, SP-R, NK-1-R, NK-1 R, NK1-R, TAC1R, NK1-receptor, substance-P receptor, TAC-R1, NK-1-receptor
HTRA3	ENSP00000303766	HtrA3, high-temperature requirement factor A3, pregnancy-related serine protease, T Asp, T-Asp, serine protease HtrA3, TASP, High temperature requirement factor A3, PRSP
FAM53A	ENSP00000310057	DNTNP, dorsal neural tube nuclear protein, FAM53A, Family with sequence similarity 53-member A

LPA	ENSP00000321334	lp(A, apo A, apolipoprotein(a, lipoprotein(a, apolipoprotein (a), LpA, Lp (a, lipoprotein (a, apolipoprotein (a, ApoA, apo-A, Lp A, LP-a
DNMT3B	ENSP00000328547	DNMT3B, DNA methyltransferase 3B, ICF1, EC 2.1.1.37, hDNMT3b, DNA-methyltransferase-3B, DNA methyltransferase-3B, DNA (cytosine-5-)-methyltransferase 3 beta, DNMT-3B, I-CF, DNA-methyltransferase 3B, DNA methyltransferase 3 beta, DNMT 3B, ICF-1, DNA (cytosine-5)-methyltransferase 3B, 3 FLG
MC2R	ENSP00000333821	ACTHR, MC2R, ACTH-R, Melanocortin 2 receptor, MC2-R, melanocortin-2 receptor, adrenocorticotrophic hormone receptor, adrenocorticotropin receptor, melanocortin 2 receptor (adrenocorticotrophic hormone, melanocortin- 2 receptor, melanocortin-2-receptor, melanocortin receptor 2, hMC2R, melanocortin receptor-2
CCKBR	ENSP00000335544	Cckbr, CCKB, cholecystokinin-2 receptor, CCK2R, CCK-BR, CCK-B, cholecystokinin B receptor, cholecystokinin B-receptor, cholecystokinin-B receptor, cholecystokinin 2-receptor, cholecystokinin 2 receptor, cholecystokinin2-receptor, cholecystokinin-B-receptor, CCK-2R, cholecystokinin2 receptor, cholecystokinin-2-receptor, cholecystokininB receptor, cholecystokininB-receptor
CHAT	ENSP00000337103	choline acetyltransferase, ChAT, choline acetyl-transferase, EC 2.3.1.6, choline acetyl transferase, ChoAcTase, choline O-acetyltransferase, choline-acetyltransferase, cholineacetyl transferase
ADIPOR1	ENSP00000341785	AdipoR1, adiponectin receptors, adiponectin receptor 1, Adipo-R1, adiponectin receptor-1, Adipo R1, adiponectin receptor1, ADIPOR-1, adiponectin-receptors
NR4A2	ENSP00000344479	Nurr1, NR4A2, orphan nuclear receptor Nurr1, RNR1, TINUR, RNR-1, HZF-3, Nurr 1, Nurr-1, nuclear receptor subfamily 4, group A, member 2, nuclear receptor subfamily 4 group A member 2, NoT
FBLN5	ENSP00000345008	Fibulin-5, FBLN5, fibulins, fibulin 5, EVEC, FBLN-5
E2F1	ENSP00000345571	E2F-1, E2F1, RBP3, E2F transcription factors, transcription factor E2F-1, transcription factor E2F1, RBAP-1, E2-F1, E2F transcription factor 1, E2F transcription factor-1, E2F1 p, E2F1-P, retinoblastoma-associated protein 1

C5AR1	ENSP00000347197	C5a, C5r1, C5AR, C5aR1, CD88, C5a-R, hC5a, complement component 5 receptor 1, Complement C5a Receptor 1, C5a anaphylatoxin chemotactic receptor 1, complement component 5a receptor 1
ARG1	ENSP00000349446	Arginase, Arg-1, liver-type arginase, ARG1, EC 3.5.3.1, arginase-1, type I arginase, arginase 1, 3 The, type-I arginase, arginase1, Arg 1
FZD6	ENSP00000351605	Fz6, frizzled 6, Hfz6, FZD6, Frizzled6, Frizzled homolog 6, frizzled class receptor 6
CUX1	ENSP00000353401	CCAAT displacement protein, CDP/cut, p75, Cux1, p100, p110, CUTL1, cux, ret fusion, CCAAT-displacement protein, COY1, Cux/CDP, CDP1, HP75, CDP/Cux, casp, Cux-1, HP-75, C-Asp, CCAAT-Displacement-protein, Cut-like homeobox 1, RET fusion, RET-fusion, cutlike homeobox 1, Cut Like homeobox 1, Cut-like homeobox1, Cut-like homeobox-1
VPS13A	ENSP00000353422	chorein, ChAc, VPS13A, vacuolar protein sorting 13A, vacuolar protein sorting 13 homolog A, vacuolar protein sorting-associated protein 13A, chorea-acanthocytosis protein
EGLN1	ENSP00000355601	EGLN1, PHD2, Egl-9 family hypoxia inducible factor 1, hph2, Sm-20, c1orf12, PHD2 p, EGL nine homolog 1, SM20, PHD-2, HIF prolyl hydroxylase 2, HPH-2, prolyl hydroxylase domain containing protein 2, HIF prolyl hydroxylase-2, prolyl hydroxylase domain-containing protein-2, prolyl hydroxylase domain-containing protein 2, Hypoxia-inducible factor prolyl hydroxylase 2, EGLN 1, HIF-prolyl hydroxylase 2, HIF prolyl-hydroxylase-2
FLVCR1	ENSP00000355938	FLVCR, FLVCR1, feline leukemia virus subgroup C cellular receptor 1, AXPC1, AxPC-1, FLVCR1 p
ADAMTS4	ENSP00000356975	ADAM-TS4, ADAMTS-2, ADAMTS-4, ADAMTS4, aggrecanase 1, ADAMTS2, aggrecanase-1, KIAA0688, ADAM-TS2, aggrecanase1, ADAMTS 2
NES	ENSP00000357206	nestin, Intermediate filaments type IV
BGLAP	ENSP00000357255	osteocalcin, bone Gla protein, OCN, BGLAP, Bgp, gamma-carboxyglutamic acid-containing protein, Bone gamma-carboxyglutamate protein, Bone Gla-protein
S100A12	ENSP00000357726	MRP6, CAAF1, S100A12, calgranulin C, S100 A12, EN-RAGE, extracellular newly identified RAGE-binding protein, protein S100A12, HP6, ENRAGE, S100 calcium binding protein A12, protein S100-A12, S100 calcium-binding protein A12, calgranulin-C

CTSS	ENSP00000357981	cathepsins, cathepsin S, Ctss, 2 fra, 2-Fra, cathepsin-S
ATG5	ENSP00000358072	Apg5, Atg5, hAPG5, APG5L, autophagy-related 5, autophagy protein 5, hApg5p, Apg5p, apoptosis specific protein, Atg 5, Atg-5, autophagy related 5, AS-P
PITX3	ENSP00000359019	Ptx3, Pitx3, paired-like homeodomain transcription factor 3, Ptx-3, pituitary homeobox 3, paired-like homeodomain 3, Pitx-3, ASMd, paired like homeodomain 3
GPC4	ENSP00000359864	GPC4, glypicans, glypican-4, K-glypican, glypican 4, GPC-4, Glypican4
TET1	ENSP00000362748	TET1, leukemia-associated protein with a CXXC domain, ten-eleven translocation 1, CXXC6, Tet methyl cytosine dioxygenase 1, Tet methylcytosine dioxygenase 1, ten eleven translocation 1, methylcytosine dioxygenase TET1, Tet-1, TET 1, Ten-eleven-translocation 1, ten-eleven translocation-1
MIR8080	hsa-miR-8080	miR-8080
FOXP3	ENSP00000365380	Foxp3, scurfin, forkhead box P3, forkhead box protein P3, forkhead box-P3, Foxp-3, FOX-P3, FOX P3, hFoxp3, Forkhead boxP3, forkhead-box P3, Forkhead-Box-Protein P3, Forkhead-Box-P3, immune Dysregulation, Polyendocrinopathy, Enteropathy, X-linked
GATA1	ENSP00000365858	GATA-1, GATA1, NF-E1, Eryf1, Gf-1, hGATA1, Eryf 1, GF1, erythroid transcription factor, GATA binding protein 1, GATA binding protein-1, NFE1, globin transcription factor 1, Eryf-1, GATA-binding protein-1, HGF1, hEryf 1, HGF-1, GATA-binding protein 1, NFE-1, GATA-binding factor 1, GATA binding factor 1, G-F1, GATA 1
PTER	ENSP00000367239	p ter, rpr-1, PTER, Phosphotriesterase-related protein
TEK	ENSP00000369375	Tie2, Tie-2, VMCM1, Tie 2, TEK receptor tyrosine kinase, Etk, angiopoietin-1 receptor, tyrosine-protein kinase receptor Tie2, Tie2-human, CD202b, tunica interna endothelial cell kinase, angiopoietin 1 receptor, TEK tyrosine kinase, endothelial, TIE2 p
TLR7	ENSP00000370034	hTLR7, TLR7, Toll-like receptor 7, TLR 7, TLR-7, Toll-like receptor-7, toll like receptors, Tlr, Toll-like receptor -7, toll- like receptors, toll like receptor 7, toll like receptor-7, Toll-like-receptor-7, Toll like receptor7, toll-like-receptor 7, Toll-Like-Receptors

NFATC2	ENSP00000379330	NFAT1, NFATc2, NFATp, nuclear factors of activated T cells, nuclear factor of activated T cells 2, NF-ATp, NF-ATc2, NFAT C2, NFAT 1, NFAT-1, Nfat-C2, nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2, nuclear factor of activated T cells, cytoplasmic, calcineurin-dependent 2, Nuclear Factors of Activated T-cells, nuclear factor of activated T-cells, cytoplasmic 2, NF-AT1
CCK	ENSP00000379472	Cholecystokinin, CCK, C-CK, Preprocholecystokinin
JAM2	ENSP00000383376	Vascular endothelial junction-associated molecule, JAM2, JAM 2, JAM-B, VE-JAM, hJAM2, junctional adhesion molecule 2, junctional adhesion molecule B, junctional adhesion molecule-B, JAM-2
ATCAY	ENSP00000390941	CLAC, Caytaxin, BNIP-H, ATCAY, BNIP-2-homology
HK1	ENSP00000402103	hexokinase type I, HK1, HKI, Hexokinase-1, EC 2.7.1.1, hexokinase 1, hHK1, HK 1, HK-1, HK I, HKd, HK-I, HXK-1, hexokinase1, HXK1, HK1 p
WDR26	ENSP00000408108	WDR26, MIP-2, MIP2, hWDR26, HMIP-2
SPATA2	ENSP00000416799	PD-1, PD1, hPD-1, SPATA2, PD 1, spermatogenesis associated 2, hPD1, Tamo, spermatogenesis-associated 2, PD- 1, spermatogenesis-associated protein 2
GPBAR1	ENSP00000430886	TGR5, membrane-type receptor for bile acids, M-BAR, BG37, GPC-R, GPBAR1, G-protein-coupled bile acid receptor 1, G protein-coupled bile acid receptor 1, Gpbar-1, GP-BAR1, G-protein-coupled bile acid receptor, G protein-coupled bile acid receptor, G protein-coupled bile acid receptor-1, hTGR5, GPCr, G-protein coupled bile acid receptor 1
HTR2A	ENSP00000437737	5-HT2A, HTR2A, HTR2, serotonin receptor 2A, Htr-2, 5Ht2a, 5-hydroxytryptamine receptor 2A, serotonin-receptor 2A, serotonin receptor-2A
KRT8	ENSP00000449404	Keratin 8, hK8, CK8, cytokeratin 8, keratin-8, KRT8, CK 8, cytokeratin-8, KRT 8, K8 p, CARD2, keratin8, CK-8, CARD 2
NPC2	ENSP00000451112	hE1, NPC2, NP-C2, epididymal protein-1, HE-1, epididymal protein 1, Niemann-Pick Disease, type C2, hNPC2, Npc2p, Niemann-Pick disease type C 2 protein, NPC2 p, NPC-2

MC1R	ENSP00000451605	Melanocortin-1 receptor, MC1R, melanocortin 1 receptor, melanocyte-stimulating hormone receptor, MSHR, MC1-R, melanocyte stimulating hormone receptor, melanocyte-stimulating--hormone receptor, melanocortin receptor 1, Melanocortin-1-receptor, MSH-R, Melanocortin receptor-1, Alpha-melanocyte-stimulating hormone receptor, MC-1R, melanocortin-receptor 1, SH-EP-2, melanocortin-1receptor, MC1R p, SHEP-2, hMC1R, MC1 R
MMP12	ENSP00000458585	MMP-12, MMP12, MME, macrophage metalloelastase, Macrophage elastase, matrix metalloproteinase 12, Matrix metalloproteinase-12, 4H84, hMMP-12, 2 MLS, matrixmetalloproteinase 12, matrix metalloproteinase 12, Matrix-metallo-proteinase-12, 2 mL s, 3F17, 3 RTS
RPL17-C18orf32	ENSP00000463379	PD-1, PD1, rpL17, L17P, PD 1, RPL23, PD- 1
RBFOX3	ENSP00000463653	NeuN, Rbfox3, Neuronal Nuclei, Neu-N, RNA-binding protein, fox-1 homolog 3, RNA-binding protein fox-1 homolog 3, RNA binding protein fox-1 homolog 3, FOX3p, RNA binding fox-1 homolog 3
ANXA8	ENSP00000478026	annexin, annexins, ANX8, VAC-beta, Annexin A8, ANXA8
GJA5	ENSP00000484552	Cx40, hCx40, connexin 40, connexin-40, connexin40, GJA5, gap junction protein alpha 5, GJA5-p, Cx 40
DCN	ENSP00000052754	decorin, DS-PG2, PG-II, PG-40, PGII, PG II, decorin proteoglycan, PG-S2, Dcn, PGS2, PGS-2, decorin-proteoglycan
MAP2K5	ENSP00000178640	MEK5, MAPK/ERK kinase 5, MAP2K5, mitogen-activated protein kinase kinase 5, mitogen activated protein kinase kinase 5, MKK5, MAPK/Erk kinase-5
BRF2	ENSP00000220659	TFIIB50, Brf2
EPOR	ENSP00000222139	erythropoietin receptor, EPOR, Epo-R, erythropoietin-receptor, EPO R
WNT16	ENSP00000222462	WNT-16, Wnt family, Wnt16, Wnt-family, WNT 16, hWNT16
PON2	ENSP00000222572	PON2, paraoxonases, EC 3.1.1.2, Paraoxonase-2, paraoxonase 2, paraoxonase2, PON 2, PON-2
EPX	ENSP00000225371	Epo, eosinophil peroxidase, EPX, EC 1.11.1.7, eosinophil-peroxidase
MGP	ENSP00000228938	MGP, matrix Gla protein, matrix-gla-protein, Mglap, Matrix Gla-protein, matrix-Gla protein
NR3C1	ENSP00000231509	glucocorticoid receptor, grl, NR3C1, 4 MDD, glucocorticoid-receptor, GCR, nuclear receptor subfamily 3, group C, member 1, GC-R, Nuclear Receptor Subfamily 3 Group C Member 1

TP53I3	ENSP00000238721	PIG3, TP53I3, PIG-3, tumor protein p53 inducible protein 3
C3	ENSP00000245907	C3b, complement C3, C3a-anaphylatoxin, HC3, complement component C3b, complement component 3, c_3, C3A, HC 3, H-C3, C3a anaphylatoxin, complement component-3, complement-C3, 4 on T, 2 ICF, C3 p, C3-p, c-3p, AS-P
FFAR1	ENSP00000246553	GPR40, hGPR40, free fatty-acid receptor 1, FFAR1, G protein-coupled receptor 40, free fatty acid receptor 1, G-protein-coupled receptor 40, G-protein coupled receptor 40, FFA1R, free fatty acid receptors, free-fatty acid receptors, free fatty acid-receptor 1, free fatty acid receptor-1, G-protein coupled-receptor 40
LIF	ENSP00000249075	leukemia inhibitory factor, leukemia-inhibitory factor, differentiation inhibitory activity, differentiation-stimulating factor, Lif, differentiation-inducing factor, MLPLI, hepatocyte-stimulating factor-III, Hepatocyte-stimulating factor III, differentiation inducing factor, differentiation stimulating factor
EIF2S1	ENSP00000256383	eIF2alpha, eIF-2alpha, eIF-2 alpha, EIF2S1, eIF2A, eukaryotic translation initiation factor 2 subunit alpha, eukaryotic translation initiation factor 2 subunit 1, eIF2 alpha, eIF-2a, eIF 2 alpha, eIF2-alpha
DSG1	ENSP00000257192	Dsg1, desmoglein 1, desmosomal cadherins, Dsg, Desmoglein-1, Dsg 1, desmoglein1
RIPK1	ENSP00000259808	RIP1, receptor-interacting protein 1, RIPK1, receptor-interacting serine/threonine-protein kinase 1, Rip-1, receptor interacting protein 1, rip, Receptor interacting protein kinase 1, receptor interacting protein-1, receptor-interacting protein kinase-1, receptor-interacting serine/threonine kinase 1, Receptor-interacting protein kinase 1, receptor-interacting serine-threonine kinase-1, Receptor-interacting protein-1, receptor (TNFRSF)-interacting serine-threonine kinase 1, Receptor-interacting Serine/Threonine Protein Kinase 1, receptor-interacting protein kinase1, receptor interacting protein kinase-1, receptor interacting serine/threonine kinase1, RIPK-1, receptor interacting serine/threonine kinase 1, Receptor-interacting serine threonine kinase 1

POU5F1	ENSP00000259915	Oct-4, Oct3, POU5F1, Oct4, OTF3, Otf-3, Oct-3, Octamer-binding transcription factor 3, Oct 3, POU domain, class 5, transcription factor 1, octamer binding transcription factor 3, Oct 4, POU class 5 homeobox 1, hOct4, Octamer-binding protein 4, octamer binding protein 4, hOCT3
KHK	ENSP00000260599	KHK, fructokinase, ketohexokinase, ketohexokinase (fructokinase, hepatic fructokinase
PSMD11	ENSP00000261712	PSMD11, p44.5, RPN-6, S9P, 26S proteasome non-ATPase regulatory subunit 11, proteasome 26S subunit, non ATPase 11
EP300	ENSP00000263253	p300, EP300, Histone acetyltransferase p300, E1A-associated protein p300, E1A binding protein p300, histone acetyl transferase p300, KAT3B, histone-acetyltransferase p300, P300P, E1A-binding protein p300, RSTS2
IGFBP1	ENSP00000275525	IGF-binding protein-1, IGFBP1, IGFBP-1, IBP-1, insulin-like growth factor-binding protein 1, IGF-BP25, IGF binding protein-1, IGF-binding protein 1, insulin-like growth factor binding protein 1, insulin-like growth factor binding protein-1, Insulin-like growth factor-binding protein-1, hIGFBP-1, IGF binding protein 1, insulinlike growth factor binding protein-1, insulin like growth factor binding protein 1, IGF BP-1, IGF-BP 1, hIGFBP1, insulinlike growth factor binding protein 1, binding protein 28, binding protein 25, PP12, IG-FBP-1, IGFBP 1
ZFP36L2	ENSP00000282388	Zfp36l2, Brf2, ERF-2, Tis11d, Erf2p, zinc finger protein 36, C3H type-like 1, erf2
FLT1	ENSP00000282397	VEGFR-1, Flt-1, Flt1, VEGFR1, fms-like tyrosine kinase 1, vascular endothelial growth factor receptor-1, Flt, fms-related tyrosine kinase 1, Fms-like tyrosine kinase-1, vascular endothelial growth factor receptor 1, VEGF-R1, Fms-related tyrosine kinase-1, Flt- 1, fms-like tyrosine kinase1, vascular-endothelial-growth factor receptor 1, VEGF R1, FLT 1, Fms related tyrosine kinase 1, VEGFR 1, Vascular permeability factor receptor
UCHL1	ENSP00000284440	Uchl1, Uch-L1, PGP9.5, Ubiquitin C-terminal hydrolase L1, ubiquitin C-terminal hydrolase-L1, PGP 9.5, Ubiquitin carboxyl-terminal esterase L1, UCHL-1, ubiquitin C-terminal hydrolases, PARK5, 2 ETL, ubiquitin carboxyl-terminal hydrolase isozyme L1, ubiquitin thiolesterase, PGP-9.5, UCH L1, Ubiquitin carboxyl- terminal esterase L1, Ubiquitin-C-terminal hydrolase L1, SPG79

SST	ENSP00000287641	somatostatin, somatostatin-28, SST, somatostatin 28, somatostatin 14, preprosomatostatin, somatostatin-14, Smst, pre-prosomatostatin, prepro-somatostatin
MIR10A5P	hsa-miR-10a-5p	miR-10a, miR10a, hsa-miR-10a, miR-10a-5p, hsa-miR-10a-5p
MIR1275	hsa-miR-1275	miR-1275, hsa-miR-1275
MIR135B5P	hsa-miR-135b-5p	mir135b, miR-135b, hsa-miR-135b, miR-135b-5p, MIR135B-5p, hsa-miR-135b-5p
MIR1885P	hsa-miR-188-5p	miR-188-5p, miR-188, hsa-miR-188-5p
MIR451A	hsa-mir-451a	miR-451, miR 451, hsa-miR-451, miR451, hsa-miR-451a, miR-451a, miR451a
LRP5	ENSP00000294304	LRP7, Hb M, LRP-5, LRP5, low-density lipoprotein receptor-related protein 5, low density lipoprotein receptor-related protein 5, HbM, LR3, LDL receptor-related protein 5, low-density lipoprotein-receptor-related protein 5, Hb-M, low-density-lipoprotein receptor-related protein 5, low-density lipoprotein receptor related protein 5, Low-density lipoprotein receptor-related protein-5, LDL-receptor-related protein 5, Lrp 7, low-density-lipoprotein-receptor-related protein 5, low density lipoprotein receptor related protein 5, LR 3, low density lipoprotein receptor-related protein-5
RHO	ENSP00000296271	Rho, rhodopsin, opsin 2, OPN2
IL3	ENSP00000296870	interleukin-3, interleukin 3, IL-3, IL3, mast cell growth factor, hematopoietic growth factor, IL 3, MCGF, hIL-3, mast-cell growth-factor, multi-CSF, HGF, MGF, mast-cell growth factor, hematopoietic growth-factor, P-cell-stimulating factor
JAM3	ENSP00000299106	JAM2, JAM3, JAM-3, hJAM3, junctional adhesion molecule-C, JAM-C, junctional adhesion molecule 3, JAM 3, JAM 2, Junctional adhesion molecule C, JAM-2
CLEC4E	ENSP00000299663	Mincle, macrophage inducible C-type lectin, Clecsf9, Clec4e, macrophage-inducible C-type lectin, C-type lectin superfamily member 9
HSP90B1	ENSP00000299767	gp96, GRP94, HtrA1, 94-kDa glucose-regulated protein, Grp 94, tumor rejection antigen 1, TRA-1, HSP90B1, TRA1, 94-kDa glucose regulated protein, Tra1p, 94 kDa glucose-regulated protein, Tra 1, heat shock protein 90 kDa beta (Grp94), member 1, HTRA-1, endoplasmin, grp-94
PSCA	ENSP00000301258	PSCA, prostate stem cell antigen, prostate stem-cell antigen, PSC-A

KLK1	ENSP00000301420	kallikreins, tissue kallikrein, HK1, kallikrein 1, HK 1, KLK1, KLK6, hHK1, HK-1, hKLK1, kallikrein-1, KLK 1, kallikrein1, HK1 p
RPS9	ENSP00000302896	Rps9, ribosomal protein S9, S9P
GRK2	ENSP00000312262	GRK2, G protein-coupled receptor kinase 2, beta ARK1, GRK-2, G protein-coupled receptor kinase-2, G-protein-coupled receptor kinase 2, beta-adrenergic receptor kinase 1, betaARK1, G-protein-coupled receptor kinase-2, beta-ARK1, GRK 2, beta-adrenergic receptor kinase-1, G-protein coupled receptor kinase 2, G-protein coupled receptor-kinase 2, BARK1, Adrbk1, G protein coupled receptor kinase 2, G protein coupled receptor kinase-2, BARK-1, G-protein-coupled-receptor-kinase-2
PRKDC	ENSP00000313420	DNA-PKcs, XRCC7, p350, p460, PRKDC, DNA-dependent protein kinase catalytic subunit, HYRC1, HYRC, DNAPKcs, DNA PKcs, protein kinase, DNA-activated, catalytic polypeptide, DNA-PK-cs, DNA-PKcs, DNA dependent protein kinase catalytic subunit
CCNG2	ENSP00000315743	cyclin G2, CCNG2, cyclin-G2
PCK1	ENSP00000319814	PCK1, phosphoenolpyruvate carboxykinase 1, Pck-1, phosphoenolpyruvate carboxykinase-1, PEPCK-C, EC 4.1.1.32, PEPCK1
EML4	ENSP00000320663	C2orf2, EML4, ropp120, Ropp 120, restrictedly overexpressed proliferation-associated protein, echinoderm microtubule-associated protein-like 4, echinoderm microtubule-associated protein like 4, echinoderm microtubule-associated protein-like4, echinoderm microtubule-associated protein like-4, echinoderm microtubule associated protein like 4, echinoderm microtubule associated protein-like 4, echinoderm microtubule associated protein like-4, echinoderm microtubule-associated proteinlike 4, hEML4, Echinoderm microtubule associated proteinlike 4, echinoderm microtubule associated-protein like 4, echinodermmicro tubule associated protein-like 4
IL17RA	ENSP00000320936	interleukin 17 receptor, IL-17RA, IL-17R, hIL-17R, IL17RA, interleukin-17 receptor A, interleukin-17 receptor, CDw217, IL-17 RA, IL17R, IL17-RA, Interleukin 17 receptor A, 4-hsa
CDC25C	ENSP00000321656	cdc25, Cdc25C, cdc-25, Cdc25-C, cell division cycle 25C, dual-specificity phosphatase Cdc25C, cdc-25c, M-phase inducer phosphatase 3

SOX2	ENSP00000323588	SOX2, transcription factor SOX2, Sox-2, SRY-Box 2, SRY box 2, SRY (sex-determining region Y)-box 2, Sox 2, hSox2, SRY (sex determining region Y)-box 2, SRY-box2, transcription factor SOX-2
GSK3B	ENSP00000324806	Glycogen synthase kinase-3beta, glycogen synthase kinase 3-beta, glycogen synthase kinase 3 beta, Glycogen synthase kinase-3 beta, glycogen synthase kinase 3beta, GSK3B, glycogen synthase kinase3-beta, GSK-3B, glycogen synthase kinase3beta, glycogen synthase kinase 3B, 3p up, 4 ACC, 4 PTC, glyco-gen synthase kinase 3 beta, glycogen synthase kinase-3b, 1J1B, 2 X 39
STK11	ENSP00000324856	LKB1, STK11, liver kinase B1, serine/threonine kinase 11, hLKB1, LKB-1, stk-11, liver kinase B 1, serine/threo-nine kinase 11, STK 11, liver kinase B-1, STK11 p
KCNA4	ENSP00000328511	HK1, HuKII, HK 1, hHK1, Kv1.4, Kcna4, Kv 1.4, PCN2, hPCN2, HK-1, HK1 p, potassium voltage-gated channel subfamily A member 4
TAC4	ENSP00000334042	PPT-C, HK1, TAC4, hHK1, Hemokinin, HK-1, preprotachykinin C, Tachykinin 4, HK 1, hHK-1, HK1 p
PDCD1	ENSP00000335062	hSLE1, PD-1, PDCD1, programmed cell death-1, programmed cell death 1, PD1, hPD-1, Programmed cell death protein 1, SLEB2, CD279, PD 1, hPDL, PDCD-1, programmed cell-death 1, programmed cell death protein-1, programmed-cell death-1, 5 GGs, programmed cell-death protein 1, hPD1, programmed cell death-protein 1, programmed-cell-death-protein-1, PD- 1, Programmed Cell Death -1, programmed cell-death protein-1
ASCC1	ENSP00000339404	p50, ASCC1, SMABF2, P 5 0, CGI-18, HP 50
ERBB4	ENSP00000342235	ErbB-4, erbB4, HER4, human epidermal growth factor receptor 4, HER-4, Her 4, human epidermal growth factor receptor-4, receptor tyrosine-protein kinase erbB-4, v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 4, erb-B4, erb-b2 receptor tyrosine kinase 4, ErbB2 Receptor Tyrosine Kinase 4, receptor tyrosine-protein kinase ErbB4, ErbB 4
HBM	ENSP00000349270	Hb-M, HbM, Hb M, mu-globin, Hb K, hemoglobin subunits
LONP1	ENSP00000353826	Pim-1, PIM1, LONP1, LON, h-pim-1, PI M1, LonHS, mitochondrial ATP-dependent protease Lon, Pim 1, PIM- 1, Lon protease-like protein, LONP, LON peptidase 1, mitochondrial

TGM2	ENSP00000355330	tissue transglutaminase, EC 2.3.2.13, TG2, G alpha h, TG(C, Transglutaminase 2, TGM2, transglutaminase C, tissue transglutaminase, Tg-2, transglutaminase-2, tissue-transglutaminase, transglutaminase2, TGM-2, hTG2, TG-C, Tgc, tissue transglutaminase, tg C
ULBP2	ENSP00000356320	RAET1H, ULBP2, ULBP-2, UL16 binding protein 2, UL16-binding protein 2
TPM3	ENSP00000357516	trk, TPM3, TM5, tropomyosins, Nem1p, tropomyosin-3, TM30nm, gamma-tropomyosin, tropomyosin 3, TPM-3, hTM5, Tropomyosin3
HOOK1	ENSP00000360252	HK1, Hook1, hHK1, HK 1, HK-1, hook 1, HK1 p, hook microtubule-tethering protein 1, Hook microtubule tethering protein 1
DHCR24	ENSP00000360316	Seladin-1, DHCR24, 24-dehydrocholesterol reductase, DIMINUTO/DWARF1 homolog, 3beta-hydroxysterol Delta24-reductase, D-C-E, 3betahydroxysterol-delta24-reductase, 3-beta-hydroxysterol Delta-24-reductase, Dce, seladin 1, DHCR 24, 3beta-hydroxysterol-Delta24 reductase, 24-dehydrocholesterol reductase, 3-betahydroxysterol delta-24-reductase, Seladin1, D-CE
MRPL41	ENSP00000360498	PIG3, MRPL41, PIG-3
AGTR2	ENSP00000360973	AGTR2, angiotensin II type 2 receptor, AT2, AT-2, angiotensin II type-2 receptor, angiotensin II receptor type 2, angiotensin II type 2-receptor, Type 2 angiotensin II receptor, angiotensin II type2 receptor, angiotensin receptor 2, angiotensin-II-type-2-receptor, angiotensin-II type 2 receptor, angiotensin-II type-2 receptor
MKNK1	ENSP00000361014	MNK1, Mnk-1, MAP kinase interacting serine/threonine kinase 1, MKNK1, MAP kinase-interacting serine/threonine-protein kinase 1
CDK9	ENSP00000362361	CDK9, cyclin-dependent kinase 9, Ctk1, C-2k, PITALRE, 4- or 5, Cyclin-dependent kinase-9, cyclin dependent kinase 9, Cyclin dependent kinase-9, cyclin-dependent-kinase 9, 4 or -5, CDK-9, CDK 9
PIM1	ENSP00000362608	pim-1, PIM1, PiM, Pim-1 oncogene, 4 Alu, 5 toe, Pi M, PI M1, h-pim-1, 4 MBL, Pim 1, PIM1 oncogene, PIM- 1, 1XWS, 2BIK, Pim-1 proto-oncogene, serine/threonine kinase, 4 as 0
CXCR3	ENSP00000362795	CXCR3, GPR9, CXCR-3, chemokine (C-X-C motif) receptor 3, chemokine receptor-3, chemokine receptor 3, CD182, C-X-C motif chemokine receptor 3, C-X-C motif chemokine receptors, CXC motif chemokine receptor 3, CD183

MIR12965P	hsa-miR-1296-5p	miR-1296, miR 1296-5p, miR-1296-5p
MIR1413P	hsa-miR-141-3p	miR-141, mir141, Hsa-miR-141, hsa-miR-141-3p, hsa-miR141-3p, miR-141-3p, miR- 141, miR141-3p
MIR1469	hsa-miR-1469	miR-1469, hsa-miR-1469, MIR1469
MIR2045P	hsa-miR-204-5p	miR-204, hsa-miR-204, miR-204-5p, miR204, hsa-miR-204-5p
MIR375	hsa-miR-375	miR-375, miR375, hsa-miR-375
CCNY	ENSP00000363836	cyclin X, HCFP1, CCNY, CFP1, cyclin Y, cyclinX
AIF1	ENSP00000365227	IRT1, Allograft inflammatory factor-1, ionized calcium binding adapter molecule 1, hG1, AIF-1, Iba1, IRT-1, interferon-gamma-responsive transcript, allograft inflammatory factor 1, AIF1, Iba-1, ionized calcium-binding adapter molecule-1, Hg-1, ionized calcium-binding adapter molecule 1, G1-P, Iba 1, ionized calcium binding adapter molecule-1, ionized calciumbinding adapter molecule 1, Allograft-inflammatory factor-1, I RT1
SHB	ENSP00000366936	Shb, SHB adaptor protein, s-HB
HSPA14	ENSP00000367623	HSP60, Hsp70L1, Hsp70-like protein 1, heat shock protein HSP60, HSP 60, HSP-60, heat shock 70 kDa proteins, HSPA14, heat-shock protein HSP-60
PSIP1	ENSP00000370109	lens epithelium-derived growth factor, p52, LEDGF, p75, HP75, PSIP1, lens epithelium derived growth factor, P5-2, DFS70, HP-75, heparin-binding growth factor family, PC4 and SFRS1 Interacting Protein 1
SLC7A1	ENSP00000370128	Cat-1, hCaT1, CaT1, ERR, hCAT-1, SLC7A1, ATRC1, Cat 1, c at 1, solute carrier family 7 member 1, ecotropic retroviral receptor
AK6	ENSP00000370201	TAF9, hTAFII32, hTAFII31, Cip, TAFII31, TAF2G, hCINAP, AK6, CINAP
AKR1C1	ENSP00000370254	aldo-keto reductases, aldoketoreductases, DDH1, HC-9, 20 alpha-hydroxysteroid dehydrogenase, h37, 20 alpha-HSD, HC9, 20alphaHSD, 20alpha-HSD, AKR1C1, 20alpha-hydroxysteroid dehydrogenase, EC 1.1.1.149, aldoketo reductases, DD-1, C9P, DDH-1, Dd1
SDCBP2	ENSP00000371233	SITAC, ST2, hst-2, syntenin-2, HST2, similar to TACIP18, ST-2
NADK2	ENSP00000371362	C5orf33, NADK2, DECRD, mitochondrial NAD kinase, MNADK
AQP4	ENSP00000372654	AQP4, aquaporin-4, aquaporin 4, MIWC, hMIWC2, mercurial-insensitive water channel, AQP-4, mercurial insensitive water channel, aquaporin4, hAQP4, AQP 4

HSPD1	ENSP00000373620	HSP60, GroEL, heat shock protein 60, HSPD1, Heat-shock protein 60, HSP-65, CPN60, Chaperonin 60, hsp65, HSP 60, HSP 65, heat shock 60 kDa protein 1, HSP-60, heat shock protein-60, heatshock protein 60, heat shock 60-kDa protein 1, hHSP60, heat shock 60 kDa protein 1 (chaperonin, heat shock 60kDa protein 1, chaperonin-60, heat shock protein family D member 1
SUMO1	ENSP00000376077	sentrin, SUMO-1, Smt3, SUMO1, SENP2, small ubiquitin-related modifier-1, small ubiquitin-related modifier 1, PIC1, UBL1, DAP-1, ubiquitin-like 1, DAP1, Smt3p, HSMT3, small ubiquitin-like modifier 1, ubiquitin-homology domain protein PIC1, PIC-1, small ubiquitin-like modifier-1, hSUMO-1, OFC10, ubiquitin like 1, OFC -10, 2bF8, GMP-1
BCL2L15	ENSP00000376992	BCL-2 family, BCL2 family, Bcl-2-family, BCL2-family, Bfk, C1orf178, BCL2L15, Bcl 2-family, AL137856
BTC	ENSP00000379092	betacellulin, Btc, beta-cellulin
AFP	ENSP00000379138	alpha-fetoprotein, AFP, alpha feto-protein, Alphafetoprotein, alpha fetoprotein, alpha 1-fetoprotein, a-fetoprotein, alpha-feto protein, alpha1 fetoprotein, alpha1-fetoprotein, alpha-feto-protein, alpha-1-fetoprotein, alphafeto protein, FetA, Fet A, alpha feto protein, Fet-A, alpha - fetoprotein
RAPGEF4	ENSP00000380271	cAMP-GEFII, Epac, Epac2, RAPGEF4, exchange protein directly activated by cAMP 2, EPA-c, exchange protein directly activated by cAMP-2
ITGB2	ENSP00000380948	CD18, LFA-1, integrin beta2, Mac-1, LF-A1, Mac1, integrin beta subunits, ITGB2, LFA1, integrin beta 2, integrin beta-2, integrinbeta2, CD 18, hCD18, 2J F1, integrin, beta 2 (complement component 3 receptor 3 and 4 subunit, L A D, Integrin subunit beta 2, CD-18
BCL2	ENSP00000381185	BCL2 family, bcl-2 family, Bcl-2-family, apoptosis regulator Bcl-2, BCL2-family, B-cell CLL/lymphoma 2, hbcl-2, Bcl-2 human, B cell CLL/lymphoma-2, B cell CLL/lymphoma 2, B-cell CLL/lymphoma-2, HBcl2, Bcl 2-family, BCL2, apoptosis regulator, apoptosis regulator Bcl2
GRB10	ENSP00000381793	GRB10, growth factor receptor-bound protein 10, Meg1, Irbp, Grb-IR, hGrb10, Grb10 adapter protein, Growth Factor Receptor Bound Protein 10
MDK	ENSP00000385451	midkine, MDK, MK1, MK-1, NEGF2, Amphiregulin-associated protein, ARAP
DGKB	ENSP00000385780	diacylglycerol kinase beta, DGK, DGKbeta, DGKB, 90-kDa diacylglycerol kinase

HSBP1	ENSP00000392896	HSBP1, heat shock factor binding protein 1, heat shock factor binding protein-1
MAPK9	ENSP00000394560	Jnk2, JNK-2, Jun-kinase, JUN kinase, c-Jun N-terminal kinase 2, Mapk9, 3 NPC, JNK2alpha, MAPK-9, c-Jun N-terminal kinase-2, c-JUN-N-terminal kinase 2, mitogen-activated protein kinase 9, JNK 2
MECP2	ENSP00000395535	MeCP2, methyl CpG binding protein 2, methyl-CpG-binding protein 2, MRX79, methyl CpG-binding protein 2, methyl-CpG binding protein 2, methyl-CpG-binding protein2, methyl-CpG binding protein-2, methyl-CpG binding-protein 2, MRX16, methyl-CpG-binding protein-2, methyl CpG-binding domain-containing, methyl-CpG binding protein2, hMeCP2, methylCpG-binding protein 2, Methyl CpG-Binding Protein-2, Methyl CpG binding protein-2, MeCp-2, MECP2 p, methyl-CpG-binding-protein 2, MethylCpG binding protein-2
SMARCA4	ENSP00000395654	SNF2, SWI2, BRG1, SMARCA4, BRG-1, hSNF2, BAF190, protein BRG1, SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily a, member 4, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, RTPS2, transcription activator BRG1, BRM/SWI2-related gene 1
RAPGEF3	ENSP00000395708	Epac, Epac1, cAMP-GEFI, exchange protein directly activated by cAMP 1, Epac-1, RapGEF-3, RAPGEF3, exchange factor directly activated by cAMP 1, exchange protein directly activated by cAMP1, exchange protein directly activated by cAMP-1, EPA-c
DIABLO	ENSP00000398495	DIABLO, Smac, direct IAP binding protein with low pI, direct IAP-binding protein with low pI, second mitochondria-derived activator of caspase, second mitochondria derived activator of caspase, diablo IAP-binding mitochondrial protein
APTX	ENSP00000400806	AOA1, Aprataxin, APTX, AOA-1
PRAM1	ENSP00000408342	PML-RAR, PMLRAR, PRAM-1, PML- RAR
PTPRC	ENSP00000411355	gp180, PTPRC, CD45, leukocyte common antigen, Ly-5, CD45R, B220, Ly5, LCA, leukocyte-common antigen, protein-tyrosine phosphatase, receptor-type C, CD 45, hCD45, protein tyrosine phosphatase, receptor type, C, Protein tyrosine phosphatase, receptor type C, GP-18-0, gp-180
EIF4E	ENSP00000425561	eIF4E, eIF-4E, eIF4E-1, EIF4EL1, eukaryotic translation initiation factor 4E, c BP, Cbp, 4-aza, eIF4-E, eIF4E1

MLIP	ENSP00000426290	Muscle-enriched A-type Lamin-interacting Protein, cip, MLIP, C6orf142, cardiac ISL1-interacting protein
PBK	ENSP00000428489	PDZ-binding kinase, lymphokine-activated killer T-cell-originated protein kinase, TOPK, PBK, T-LAK cell-originated protein kinase, MAPKK-like protein kinase, PDZ binding kinase, T-LAK cell-originated protein kinase, T-Lak cell originated protein kinase, T-LAK-cell-originated protein kinase
LYN	ENSP00000428924	Lyn, Src family tyrosine kinases, p56 LYN, Src-family tyrosine kinases, Lck/Yes-related novel protein tyrosine kinase
TRAF6	ENSP00000433623	TRAF6, TRAF-6, TNF receptor-associated factor 6, TNF receptor-associated factors, TNF-receptor associated factors, TNF-receptor-associated factor 6, TNF receptor-associated factor-6, TRAF, TNF receptor associated factor 6, TNF Receptor Associated Factors, TNF receptor associated factor-6, TRAF 6, TNF-receptor associated factor 6, TNF-receptor-associated factors
ARMS2	ENSP00000436682	ARMS2, age-related maculopathy susceptibility 2, Age-related maculopathy susceptibility protein 2, ARMS2 p, age-related maculopathy susceptibility2
LATS1	ENSP00000437550	LATS1, hLATS1, Large tumor suppressor homolog 1, large tumor suppressor kinase 1, LATS 1
NR4A1	ENSP00000440864	Nur77, hMR, HTR3, NGFI-B, TR3, Nur 77, NAK1, Nr4a1, nuclear receptor subfamily 4, group A, member 1, Nur-77, NAK-1, orphan nuclear receptor TR3, NGFIB, NGF-IB, HN10, testicular receptor 3, nuclear receptor subfamily 4 group A member 1, TR 3, hTR 3
IL22	ENSP00000442424	IL-TIF, IL-21, IL-22, TIFA, IL21, interleukin-22, IL-10-related T cell-derived inducible factor, Interleukin 22, IL-2 2, IL22, IL- 21, IL 22, Interleukin -22, IL 21, IL2 1
CEP290	ENSP00000448012	3H11Ag, CEP290, NPHP6, nephrocystin-6, rd16, Poc3, centrosomal protein 290 kDa, centrosomal protein 290, centrosomal protein of 290 kDa, CEP-290
SRD5A2	ENSP00000477587	SRD5A2, steroid 5 alpha-reductase 2, steroid 5alpha-reductase 2, 5 alpha-SR2, type II 5 alpha-reductase, steroid 5-alpha-reductase 2, Srd5A-2, SRD5A2 p, type II 5alpha-reductase, hSRD5A2, steroid-5-alpha-reductase, alpha polypeptide 2, steroid 5-alpha reductase-2, 3-oxo-5-alpha-steroid 4-dehydrogenase 2
PHB	ENSP00000479488	prohibitin, PHB1, Phb1p, Ph- B, Phb, PHB-1
ZMYM2	ENSP00000479904	MYM, ZNF198, ZMYM2, zinc finger, MYM-type 2, M-YM

SLC46A1	ENSP00000480703	HCP 1, HCP1, PCFT, SLC46A1, heme carrier protein 1, hHCP1, proton-coupled folate transporter, PCFT/HCP1, HCP-1, proton coupled folate transporter, heme-carrier protein 1, heme carrier protein-1
BCL2L13	ENSP00000480836	BCL2 family, bcl-2 family, Bcl-2-family, BCL2-family, BCL2L13, Bcl-rambo, mL-1, Bcl2-like 13, Bcl 2-family, Bcl-2-like protein 13
BCL2L12	ENSP00000482218	BCL-2 family, Bcl2L12, BCL2 family, Bcl2-like-12, Bcl-2-family, BCL2-family, Bcl2-Like12, BCL2-like 12, Bcl 2-family, BPR, Bcl2-like protein 12, BCL2 like 12, Bcl2 Like-12, B-PR, Bcl2 like protein-12, Bcl2 like protein 12, Bcl2-like protein-12
MUC1	ENSP00000484824	MUC1, MCKD1, MUC1/ZD, PUM, EMA, episialin, peanut-reactive urinary mucin, mucin 1, CA 15-3, polymorphic epithelial mucin, MUC-1, MUC1/SEC, Mucin1, CA15-3, mucin-1, ADMCKD1, CD227, PEMT, KL-6, H23Ag, MUC1/X, hMUC1, MUC 1, Krebs von den Lungen-6, cancer antigen 15-3, CA153, hMUC-1, MAM-6, mucin 1, cell surface associated, KL6, cancer antigen 153, Cancer Antigen15-3, Krebs von den Lungen 6, Tumor-Associated Mucin, CA-15-3
MT-TP	MT-TP	tRNP, MTTP, MT-TP
PWAR1	PWAR1	PAR1, par-1, Par 1, hPar1, PWAR1
RALBP1	ENSP00000019317	RLIP76, RaIBP1, RIP1, Rip, Rip-1, RLIP1, 76-kDa Ral-interacting protein, RalA binding protein 1, RalA-binding protein 1, RalA binding protein-1
PNPLA3	ENSP00000216180	Adiponutrin, PNPLA3, patatin-like phospholipase domain-containing protein 3, iPLA2epsilon, EC 3.1.1.3, ADPN, patatin-like phospholipase domain-containing 3, patatin-like phospholipase domain-containing 3, patatin-like phospholipase domain containing 3, PNPLA3 p, Patatin-like phospholipase domain containing-3, PNPLA 3, Patatin-like phospholipase domain containing, patatin-like phospholipase domain-containing protein-3, PNPLA-3, patatin-like phospholipase domain-containing-3, acylglycerol O-acyltransferase, patatin-like phospholipase domain-containing protein3, patatin-like phospholipase domain containing-protein 3, patatin-like phospholipase domain containing protein 3, patatin like phospholipase domain-containing protein 3

SULT2A1	ENSP00000222002	hydroxysteroid sulfotransferase, ST2, hSTa, hST, HST2, DHEA-ST, DHEA ST, SULT2A1, hst-2, Dehydroepiandrosterone sulfotransferase, h-ST-a, ST-2, StD, sulfotransferase 2a1, St-D, Hs-T, s t d
C5	ENSP00000223642	C5a, C5D, HC5, complement C5, C5a anaphylatoxin, Hc-5, hC5a, 5 HCC, complement component 5, C-5B, C5 A, c-5p
RASD1	ENSP00000225688	DexRas1, ras-related protein, AGS1, activator of G protein signaling, RASD1, dexamethasone-induced Ras-related protein 1, Ras related protein, Ras-related dexamethasone-induced 1, AGS 1
ZPR1	ENSP00000227322	Zpr1, zinc finger protein ZPR1, zinc-finger protein ZPR1, ZPR1 Zinc Finger, ZNF259, zinc finger protein 259, ZINC fingers
SART3	ENSP00000228284	hSART3, p110, Tip110, p100, SART3, DSAP1, p110(nrb, Tat-interacting protein of 110 kDa, Squamous cell carcinoma antigen recognized by T cells 3
GAPDH	ENSP00000229239	glyceraldehyde-3-phosphate dehydrogenase, glyceraldehyde 3-phosphate dehydrogenase, GAPD, GAPDH, glyceraldehyde 3 phosphate dehydrogenase, G3PD, glyceraldehyde-3-phosphate-dehydrogenase, glyceraldehyde-3 phosphate dehydrogenase, glyceraldehyde-3-phosphate dehy-drogenase, EC 1.2.1.12
CHPT1	ENSP00000229266	hCPT1, cpt, CPT1, c Pt, CPT-1
SPARC	ENSP00000231061	cysteine-rich protein, osteonectin, CRP, BM-40, BM40, Secreted protein acidic and rich in cysteine, secreted protein, acidic, cysteine-rich (osteonectin, Sparc, secreted-protein-acidic-and-rich-in-cysteine, SPARC family, secreted-protein acidic and rich in cysteine, secreted protein acidic and cysteine rich
NCK2	ENSP00000233154	Grb4, Nckbeta, Nck2
GHSR	ENSP00000241256	GHS-R, growth hormone secretagogue receptor, GHSR, ghrelin receptor, GH-releasing peptide receptor, ghrelin-receptor, growth-hormone secretagogue receptor
BCL2L2	ENSP00000250405	BCL2 family, bcl-2 family, Bclw, bcl-w, Bcl-2-family, bcl -w, BCL2-family, BCL2L2, BCL2-like2, Bcl 2-family, BCL2-Like Protein 2, BCL2 like 2, Bcl-2-like-2
ESS2	ENSP00000252137	TSSK 2, ES-2, DSGI, ES2, HES2, DiGeorge syndrome critical region 14, Dgcr14, Tsk2, DiGeorge syndrome critical region gene 14, BIS-1, BIS1
PEMT	ENSP00000255389	PEMT, PNMT, PEMT2, phosphatidylethanolamine N-methyltransferase, PEMPT

CLPS	ENSP00000259938	colipase, co-lipase, pancreatic colipase, pancreatic co-lipase, Clps
BCL2L10	ENSP00000260442	BCL2 family, Bcl-B, BCL-2 family, Bcl2-L-10, BCL2L10, Bcl-2-family, BCL2-family, BCLb, Bcl 2-family
LMNB1	ENSP00000261366	LMNB1, lamins, lamin B1, Lmnb, Lamin-B1, LAMINB1
VWF	ENSP00000261405	VWF, von Willebrand factor, F8vWF, 1-ATZ, vonWillebrand factor, von-Willebrand-factor, v-WF, von-Willebrand factor, von Willebrand-factor
MAP3K8	ENSP00000263056	Tpl2, Tpl-2, cot, Tumor progression locus-2, mitogen-activated protein kinase kinase kinase 8, MAP3K8, AURA2, cancer Osaka thyroid oncogene, Tumor progression locus 2
SYP	ENSP00000263233	synaptophysin, SYP, SY P, synapto-physin, Major Synaptic Vesicle Protein p38
BIRC3	ENSP00000263464	hiAP-1, API2, aip-1, AIP1, c-IAP2, HIAP1, MIHC, ciAP-2, inhibitor of apoptosis protein-1, ciAP2, c-IAP-2, apoptosis inhibitor-2, apoptosis inhibitor 2, IAP-1, cellular inhibitor of apoptosis-2, cellular inhibitor of apoptosis 2, IAP1, h-IAP1, BIRC3, inhibitor of apoptosis protein 1, inhibitor-of-apoptosis protein 1, Aip1p, baculoviral iap repeat-containing 3, inhibitor of apoptosis protein1, BIRC 3
DGUOK	ENSP00000264093	deoxyguanosine kinase, dGK, DGUOK, EC 2.7.1.113, deoxy-guanosine kinase
CD80	ENSP00000264246	CD80, B7-1, HLA-B7, BB-1, BB1, B lymphocyte activation antigen B7, B7.1, hBB1, HB7, HLA B7, B-lymphocyte activation antigen B7, CD 80, CD80 antigen, CD80 molecule, HL-A-B7, Hb 7, HB-7, B-7.1, HLA-B 7
CP	ENSP00000264613	ceruloplasmin, CP2, CP-2, EC 1.16.3.1
BNIP2	ENSP00000267859	BNIP-2, BCL-2 family, Nip2, BCL2 family, Bcl-2-family, Bcl-2/adenovirus E1B 19 kDa interacting protein 2, Bcl-2/adenovirus E1B 19kDa interacting protein 2, BNIP2, BCL2-family, BNIP 2, Bcl 2-family
SLC25A4	ENSP00000281456	HT1, ANT1, Adenine nucleotide translocator 1, Ant1p, Ant 1, SLC25A4, AAC1, HT-1, ANT-1, adenine nucleotide translocator-1, AAC-1, ADP/ATP translocase 1, AAC 1, HT 1, T1P
DGKE	ENSP00000284061	dGK, DGKE, diacylglycerol kinase epsilon
THY1	ENSP00000284240	Thy-1, Thy1, Thy-1-antigen, Thy-1 antigen, CD90, Thy-1 cell surface antigen, Thy 1, Thy-1-human, CD 90, hCD90, Thy-1- human, THY1 membrane glycoprotein, Thy-1 membrane glycoprotein, CDw90, Thy 1 antigen

ACAA2	ENSP00000285093	HT1, mitochondrial 3-oxoacyl-CoA thiolase, HT-1, beta-ketothiolase, acetyl CoA acyltransferase, HT 1, Acaa2, acetyl-CoA acyltransferase 2, T1P
HMGCR	ENSP00000287936	3-hydroxy-3-methylglutaryl coenzyme A reductase, HMGCR, EC 1.1.1.34, hydroxymethylglutaryl-CoA reductase, 3-hydroxy-3-methylglutaryl CoA reductase, 3-hydroxy-3-methylglutaryl-Coenzyme A reductase, 3-hydroxy-3-methyl-glutaryl coenzyme A reductase, 3-hydroxy-3-methyl glutaryl-CoA reductase, hydroxymethyl glutaryl-CoA reductase, 3-Hydroxy-3-methylglutaryl--coenzyme A reductase, 3-hydroxy-3-methylglutaryl-CoA reductase, 3-hydroxy-3-methyl-glutaryl-CoA reductase, 3-hydroxy-3-methyl-glutaryl coenzyme-A reductase, 3-hydroxy-3-methylglutaryl coenzyme-A reductase, 3 CD5, 3-hydroxy-3methylglutaryl CoA reductase, hydroxy-methyl-glutaryl CoA reductase, 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase, 3-hydroxy-3-methylglutaryl-coenzyme-A-reductase, hydroxymethylglutaryl CoA reductase, 3-hydroxy-3methyl glutaryl Coenzyme A reductase, 3-hydroxy-3-methylglutaryl-co-enzyme A reductase, 3-hydroxy-3-methylglutaryl- coenzyme A reductase, 3-hydroxy-3-methylglutaryl-coenzyme-A reductase, 3-hydroxy-3-methylglutaryl-coenzyme-A reductase, 3-hydroxy-3-methylglutarylCoA reductase, hydroxy methylglutaryl-CoA reductase, hydroxymethyl glutaryl CoA reductase
REL	ENSP00000295025	Rel, c-Rel, l-Rel, cRel, proto-oncogene c-Rel, c REL, protooncogene c-REL, v-rel avian reticuloendotheliosis viral oncogene homolog, REL proto-oncogene, NF-kB subunit
TGFA	ENSP00000295400	transforming growth factor-alpha, TGFA, TFGA, Transforming growth factor alpha, transforming growth-factor alpha, transforming-growth-factor-alpha, 3 TGF, TGF-a, transforming growth factor-a, 2 TGF, pro-transforming growth factor alpha, 2-TGF
RICTOR	ENSP00000296782	rictor, mTOR complex-2, rapamycin-insensitive companion of mTOR, rapamycininsensitive companion of mTOR, AVO3p, mTOR complex 2, mTor-complex-2, RPTOR-independent companion of MTOR complex 2, PI-a, mTOR complex2, PiA
TERF2IP	ENSP00000300086	Rap1, Rap1p, Rap-1, TERF2IP, hRap1
CDT1	ENSP00000301019	dup, Cdt1, hCdt1, Cdt-1, DNA replication factor Cdt1, chromatin licensing and DNA replication factor 1

FADD	ENSP00000301838	protein FADD, FADD, MORT1, death effector domain containing, MORT-1, Fas-associated death domain protein, Fas-associated via death domain, Fas-associating protein with death domain, Fas (TNFRSF6)-associated via death domain, Fas associated via death domain
LGALS4	ENSP00000302100	GAL4, galectin 4, galectin-4, LGALS4, Gal4p, Gal-4, GAL 4
AXIN2	ENSP00000302625	conductin, AXIN2, Axis inhibition protein 2, axin-2, Axin 2, Axis inhibition protein2
UGT2B7	ENSP00000304811	UGT2B7, UGT2B9, UDP-glucuronosyltransferase 2B7, UDPGTh-2, UDP-glucuronosyltransferase-2B7, UDP glucuronosyltransferase 2B7
RPTOR	ENSP00000307272	raptor, MIP1, regulatory associated protein of mTOR, complex 1, mTOR complex 1, MIP-1, regulatory associated protein of mTOR, Mip1p, p150 target of rapamycin (TOR)-scaffold protein, hMIP-1, regulatory-associated protein of mTOR, mTOR complex1, RPTOR, mTOR complex-1, regulatory associated protein of mTOR complex 1, KOG-1
MCM7	ENSP00000307288	MCM family, MCM7, MCM2, Mcm2p, hCDC47, p85Mcm, CDC47, CDC 47, MCM-2, minichromosome maintenance complex component 7, DNA replication licensing factor MCM7, MCM-7
GPD2	ENSP00000308610	mGPDH, GPDm, GDH2, mtGPD, GPD2, hGDH2, glycerol-3-phosphate dehydrogenase 2, GP-DM
BCL2L14	ENSP00000309132	BCL2 family, Bcl-G, Bcl-2-family, BCL-2 family, BCL2-family, BCLG, BCL2L14, Bcl 2-family, Bcl2-like 14
RBBP6	ENSP00000317872	P2P-R, PACT, RBQ-1, RBBP6, Proliferation potential-related protein, RBQ1, retinoblastoma binding protein 6, PP-RP
PRKRA	ENSP00000318176	RAX, PACT, PRKRA, DYT16, protein activator of the interferon-induced protein kinase, PKR associated protein X
CXCR2	ENSP00000319635	IL8RA, CXCR2, Il8rb, IL-8RB, IL8R2, IL-8R2, IL8RBP, chemokine receptor 2, IL-8RA, Cmkar2, CXCR-2, CXC-chemokine receptor type 2, chemokine receptor-2, C-X-C motif chemokine receptor 2, chemokine (C-X-C motif) receptor 2, CD182, C-X-C motif chemokine receptors, C-X-C-motif chemokine receptor 2, C-X-C chemokine receptor type 2, CXC motif chemokine receptor 2, chemokine receptor- 2
RHBDF2	ENSP00000322775	iRhom2, RHBDF2, rhomboid family, FLJ22341, Rhomboid family member 2, inactive rhomboid protein 2, rhomboid 5 homolog 2, iRhom-2

SLC2A2	ENSP00000323568	GLUT2, Glut-2, SLC2A2, GLUT 2, solute carrier family 2 (facilitated glucose transporter), member 2, hGLUT2
TRPM8	ENSP00000323926	TRPM8, Trp-p8, Transient receptor potential cation channel subfamily M member 8, transient receptor potential cation channel, subfamily M, member 8, hTRPM8
TCHP	ENSP00000324404	tumor suppressor protein, tumor-suppressor protein, MITOSTATIN, tumor-suppressor-protein, trichoplein keratin filament-binding protein, Tpms
SYT9	ENSP00000324419	synaptotagmins, Synaptotagmin IX, synaptotagmin-9, SYT9, Synaptotagmin 9
KIR3DL2	ENSP00000325525	p140, killer cell immunoglobulin-like receptors, 3DL2, KIR, killer-cell immunoglobulin-like receptors, CI-5, KIR3DL2, CD158k, CL5, killer cell immunoglobulinlike receptors, killer cell immunoglobulin like receptors, Killer Cell Immunoglobulin- Like Receptors, Killer Cell Immunoglobulin-like Receptor 3DL2, KIR-3DL2
CCR8	ENSP00000326432	CCR8, TER1, CY6, CKR-L1, chemokine receptor-like 1, C-C motif chemokine receptors
OSBP2	ENSP00000332576	ORP4, OSBP2, OSBPL1, oxysterol-binding proteins, oxysterol binding proteins, Osbpl-1, oxysterol-binding protein-related protein 4
TSLP	ENSP00000339804	thymic stromal lymphopoietin, TSLP
MAOA	ENSP00000340684	monoamine oxidase A, MAOA, MAO A, Mao-a, EC 1.4.3.4, monoamine oxidase type A, monoamine oxidase-A, monoamine-oxidase A, mono-amine oxidase-A, mono-amine-oxidase type A, monoamine-oxidase-A, monoamine oxidase type-A
MAP2K3	ENSP00000345083	MEK3, MKK3, MKK-3, MAP kinase-kinase 3, Map Kinase Kinase 3, MAP2K3, mitogen-activated protein kinase kinase 3, MKK 3, Mitogen-activated protein kinase kinase-3, mitogen-activated protein kinase-kinase 3
CLDN7	ENSP00000353475	claudin-1, Claudin-7, CLDN-7, CLDN7, claudin 1, Claudin7, claudin 7, claudin1
CNTF	ENSP00000355370	ciliary neurotrophic factor, CNTF, hCNTF
PRKN	ENSP00000355865	parkin, PARK2, E3 ubiquitin-protein ligase Parkin, PRKN, PARK 2, Park-2, AB009973, E3 ubiquitin protein ligase Parkin, parkin RBR E3 ubiquitin protein ligase, Parkin RBR E3 ubiquitin-protein ligase

EPRS1	ENSP00000355890	PARs, GluProRS, EPRS, QARS, glutamyl-prolyl tRNA synthetase, bifunctional aminoacyl-tRNA synthetase, glutamyl-prolyl-tRNA synthetase, Glns, glutamyl prolyl tRNA synthetase, bifunctional glutamate/proline-tRNA ligase, Glutamyl-prolyl-tRNA-synthetase
ESRRG	ENSP00000355904	ERR3, ERRgamma, Estrogen-related receptor gamma, ESRRG, estrogen receptor-related protein 3, NR3B3, ERRgamma2, ERRG, estrogen-related receptor-gamma, E srrg
HSD11B1	ENSP00000355995	11 beta HSD1, 11beta-HSD 1, 11betaHSD1, 11beta-hydroxysteroid dehydrogenase 1, HSD11, HSD11L, 11 beta-HSD1, 11 beta-hydroxysteroid dehydrogenase-1, 11beta-HSD1, 11beta-HSD-1, 11beta -HSD1, 5 pg x, HSD11B1, 11beta-hydroxysteroid dehydrogenase-1, 11betaHSD-1, hydroxysteroid dehydrogenase 1, HSD11B, Hydroxysteroid dehydrogenase-1, hydroxysteroid-dehydrogenase 1, hydroxysteroid (11-beta) dehydrogenase 1, EC 1.1.1.146, Hydroxysteroid 11-Beta Dehydrogenase 1, hydroxysteroid 11-beta dehydrogenase-1, Hydroxysteroid dehydrogenase - 1
CSRP1	ENSP00000356275	CRP1, Csrp, CRP, cysteine and glycine rich protein 1, CSRP1, CRP 1, C-RP, Cysteine-rich protein 1, cysteine- and glycine-rich protein 1, HCRP1, CR P
ATF6	ENSP00000356919	ATF6, Activating transcription factor 6, ATF-6, ATF6A, activating transcription factor 6A, activating transcription factor-6, activating transcription factor 6 alpha
BAG3	ENSP00000358081	BAG-3, Bcl-2-associated athanogene 3, Bag3, Bcl-2 associated athanogene-3, BAG3 p, BCL2-associated athanogene 3, Bcl-2-associated athanogene-3, Bcl-2-associated athanogene family, Bcl-2 associated athanogene 3, CAIR-1, Bcl-2 associated athanogene 3, BCL2-associated athanogene-3, BCL2 Associated Athanogene 3, BCL2- associated athanogene 3, Bcl-2 associated-athanogene-3, Bcl-2-associated athanogene3, BCL2-associated athanogene family
CNR1	ENSP00000358513	CB1R, Cannabinoid receptor 1, Cbr, CNR1, Cnr-1, cannabinoid receptor-1, CB1-P, cnr, CB1-R, CNR1 human, cannabinoid receptor1, hCB1, CB-1R, hCB1R

NRAS	ENSP00000358548	HRAS1, N-Ras, NRAS, neuroblastoma RAS viral oncogene homolog, Hras-1, H-ras-1, H-ras 1, H-ras1, neuroblastoma RAS viral (v-ras) oncogene homolog, 3-con, NRAS1, NRAS proto-oncogene, GTPase, GTPase NRas, neuro-blastoma RAS viral oncogene homolog
RAP1A	ENSP00000358723	KREV1, Rap1A, Rap1, smg p21, Krev-1, c21KG, K rev-1, Rap-1, KREV1P, hRap1, Rap1p, K-rev-1, Ras-related protein Rap-1A, RAP1A, member of RAS oncogene family, rap 1A
FMR1	ENSP00000359506	FMR1, FMRP, Fragile X mental retardation-1, FRAXA, fragile X mental retardation 1, FMR-1, fragile X mental retardation protein 1, POF, POF1, fragile-X mental retardation 1, fragile-X mental-retardation 1, hFMR1, FMR 1, Fragile X mental-retardation 1, fragile X mental retardation1, fragile-X mental retardation-1, 2 FMR
PTPN1	ENSP00000360683	PTP-1B, PTP1B, protein tyrosine phosphatase 1B, PTPN1, protein-tyrosine phosphatase 1B, Protein tyrosine phosphatase-1B, protein-tyrosine-phosphatase 1B, hPTP1B, Protein tyrosine phosphatase 1-B, PTP 1B, protein-tyrosine phosphatase-1B, 2 CNI, protein tyrosine phosphatase 1 B, Tyrosine-protein phosphatase non-receptor type 1, protein tyrosine-phosphatase 1B, protein tyrosine phosphatase1B, Protein tyrosine phosphatase, non-receptor type 1
PREX1	ENSP00000361009	P-Rex1, Prex1, phosphatidylinositol-3, 4, 5-trisphosphate-dependent Rac exchange factor 1, PIP3-dependent Rac exchange factor-1, Phosphatidylinositol-3, 4, 5-Trisphosphate Dependent Rac Exchange Factor 1, phosphatidylinositol 3, 4, 5-trisphosphate-dependent Rac exchanger 1 protein, phosphatidylinositol 3, 4, 5-trisphosphate-dependent Rac exchange factor 1
NOX1	ENSP00000362057	mox1, gp91-2, NOX1, Mox-1, NOX-1, NADPH oxidase-1, Hmox1, NOH-1, NADPH oxidase homolog 1, mitogenic oxidase, HMOX-1, NADPH oxidase 1, NADPH-oxidase 1, Nox 1, NADPH oxidase1
ENG	ENSP00000362299	endoglin, HHT 1, HHT1, CD105, HHT-1, ORW1, CD-105, eng, CD 105
BAK1	ENSP00000363591	BCL2 family, Bak-like, BCL-2 family, Bak1, Bcl-2-family, Bcl-2 homologous antagonist/killer, BCL2-family, Bak-1, BCL2-antagonist/killer 1, Bcl 2-family, BCL2 antagonist/killer 1
RALA	ENSP00000005257	Ral, RalA, Ras-related protein Ral-A, Ral A, V-ral simian leukemia viral oncogene homolog A, Ral-A

CD74	ENSP00000009530	p33, CD74, Ia gamma, HLA-DG, HLA-DR-gamma, 3 PGD, HLA class II histocompatibility antigen gamma chain, CD 74, Ia-associated invariant chain
FAP	ENSP00000188790	DPPIV, FAP alpha, seprase, fibroblast activation protein alpha, DPP-IV, serine integral membrane protease, SIMP, 170-kDa melanoma membrane-bound gelatinase, FAPalpha, DPP IV, fibroblast activation protein-alpha, FAP-alpha, FA-P, Fap
AQP2	ENSP00000199280	AQP2, aquaporin-2, Aquaporin 2, AQP-CD, AQP-2, WCH-CD, aquaporin2, aquaporin-CD, AQP2-p, AQP 2, AQP2 p
PPP1R15A	ENSP00000200453	GADD34, Ppp1r15a, GADD 34, protein phosphatase 1, regulatory subunit 15A, Growth Arrest And DNA-Damage-Inducible 34
CDC6	ENSP00000209728	Cdc6, Cdc6p, p62(cdc6, hCdc6, CDC6-related protein, cell division cycle 6, cell division cycle 6 homolog, CDC-6
GADD45B	ENSP00000215631	MyD118, Gadd45b, Gadd45 beta, growth arrest and DNA-damage-inducible-beta, gadd45beta, hMyD118, growth arrest and DNA-damage-inducible beta, Growth arrest and DNA-damage-inducible, beta, growth arrest and DNA damage inducible b
SEC14L3	ENSP00000215812	TAP2, SEC14L3, Sec14-like 3, TAP-2
GZMB	ENSP00000216341	Granzyme B, Grb, GzmB, cytotoxic serine protease B, hCTLA-1, c11, CTLA-1, Hlp, CGL1, CGL-1, CTLA 1, CSPB, CTLA1, CCPI, granzyme-B, CCP I, granzymeB, cytotoxic serine protease-B, CSP-B, GR B, Gzm-B
CHGA	ENSP00000216492	chromogranin A, granins, chga, pancreastatin, chromogranin-A, vasostatin, parastatin, chromograninA
GPR50	ENSP00000218316	GPR50, melatonin-related receptor, HH9, G protein-coupled receptor 50, G-protein-coupled receptor 50, Mel1c, G protein coupled receptor 50
CSK	ENSP00000220003	c-Src kinase, Csk, c-src tyrosine kinase, C-terminal Src kinase, 3 EAC, c-Src-kinase
NEFM	ENSP00000221166	NF-M, Intermediate filaments type IV, neurofilament-medium, neurofilament medium, NEFM, NFM, neurofilament-3, neurofilament medium polypeptide
PIK3R2	ENSP00000222254	p85, p85beta, Pik3r2, p85 beta, phosphoinositide 3-kinase regulatory subunit 2, phosphoinositide-3-kinase, regulatory subunit 2, phosphoinositide-3-kinase regulatory subunit 2, Phosphatidylinositol 3-kinase regulatory subunit beta

C1QBP	ENSP00000225698	p32, hp32, p33, gC1qR, C1QBP, gC1q-R, C1q globular domain binding protein, 1 p32, SF2p32, HABP1, gC1qR protein, hyaluronan binding protein 1, P3 2, complement component 1, q subcomponent binding protein, hyaluronan-binding protein 1, complement component 1, q subcomponent-binding protein, HABP-1
COL1A1	ENSP00000225964	COL1A1, LRG1, Col 1a1, collagen alpha 1(I) chain, Z74615, AF017178, collagen alpha1(I) chain, collagen, type I, alpha 1, alpha-1 type I collagen, collagen type I alpha-1 chain, COL-1A1, collagen type I alpha 1 chain, collagen, type I, alpha-1, LRG-1, COL1A1 p, COL1A1-014, alpha 1 type I collagen, alpha1 type I collagen
AFM	ENSP00000226355	alf, alpha-albumin, afamin, alb-2, Al-F, a-LF, AlbA, Alb-A
GNRHR	ENSP00000226413	GnRHR, GnRH-R, gonadotropin-releasing hormone receptor, GRHR, gonadotropin releasing hormone receptor, LHRH-R, GNRHR1, gonadotropin-releasing hormone receptor, LHRHR, Gn-RHR
LTBR	ENSP00000228918	CD18, lymphotoxin-beta receptor, Lymphotoxin beta-receptor, LTbetaR, LT beta-R, LT-betaR, lymphotoxin beta receptor, D12S370, LTBR, LT-beta R, LTbeta-R, LT beta R, lymphotoxin-beta-receptor, CD 18, hCD18, TNFR3, CD-18
NANOG	ENSP00000229307	Nanog, Nanog homeobox, homeobox protein NANOG
GPLD1	ENSP00000230036	PI-G PLD, GPI-PLD, GPLD1, phosphatidylinositol-glycan-specific phospholipase D, glycosylphosphatidylinositol-specific phospholipase D, glycosylphosphatidylinositol specific phospholipase D, pld, glycosylphosphatidylinositol specific phospholipase D1
MSH2	ENSP00000233146	MSH2, hMSH2, MutS homologs, msh-2, MSH 2, HN-PCC, MutS homolog 2, Msh2p, DNA mismatch repair protein MSH2, hMSH-2, LCFS2, hmsh 2, MSH2 p, Mut-S-homolog-2, mutS homolog2, MutS protein homolog 2
PLEK	ENSP00000234313	pleckstrin, p47, Plek, platelet 47-kDa protein
FGF23	ENSP00000237837	FGF23, phosphatonin, FGF-23, fibroblast growth factor 23, fibroblast growth factor-23, HPDR2, FGF-2 3, hFGF23, fibroblast-growth factor 23, HypF, hFGF-23, FGF23-P, fibroblast growth factor23, FGF 23, FGF- 23, fibroblast-growth-factor 23, fibroblast-growth factor-23, ad HR, FGF -23, FGF-23-P, fibroblast-growth-factor-23
KALRN	ENSP00000240874	TRAD, Kalirin, CHD5, KALRN, protein Duo, Huntingtin-associated protein-interacting protein, HAPIP

PLCG1	ENSP00000244007	phospholipase C-gamma1, phospholipase Cgamma1, PLCG1, PLC-gamma 1, Phospholipase C gamma 1, PLC-gamma1, PLC1, PLC-148, PLCgamma1, phospholipase C-gamma 1, phospholipase C gamma-1, phospholipase Cgamma-1, PLC-gamma-1, plc-1, PLCgamma-1, phospholipase C gamma1, phospholipase C, gamma 1, PLC-g1, PLC gamma-1, PLC gamma 1
MRPS7	ENSP00000245539	MRPs, RPS7, MRPS7, mitochondrial ribosomal protein S7, MRP-S
F2RL3	ENSP00000248076	PAR4, par-4, coagulation factor II receptor-like 3, F2RL3, coagulation factor II (thrombin) receptor-like 3, Par 4
MCHR1	ENSP00000249016	MCH-1R, MCH1R, MCH-R1, SLC-1, melanin-concentrating hormone receptor 1, MCH1-R, MCHR1, GPR24, SLC1, melanin concentrating hormone receptor 1, G protein-coupled receptor 24, Melanin concentrating hormone receptor-1
NDUFA2	ENSP00000252102	CD14, NDUFA2, cl-B8, CD1 4, CD-14, CD 14, hCD14
MLLT1	ENSP00000252674	ENL, LTG19, Mllt1
NROB2	ENSP00000254227	SHP-1, SHP, small heterodimer partner, NROB2, SHP1, orphan nuclear receptor SHP, Nuclear receptor subfamily 0, group B, member 2, nuclear receptor subfamily 0 group B member 2
JAG1	ENSP00000254958	Jagged1, JAG1, Jagged-1, AGS1, Jagged 1, Ahd, HJ1, JAG-1, JAG 1, AwS, AGS 1
NTS	ENSP00000256010	Neurotensin/neuromedin N, neurotensin, NT/N, neuromedin N, neuromedin-N, NTS-1, NTS1, nt S1, hNTS1, Nts, NT-s, proneurotensin/neuromedin, Pro-neurotensin/neuromedin
SORT1	ENSP00000256637	Sortilin, NT-3, Sort1, gp95, NT3, sortilin-1, neurotensin receptor-3, 100-kDa NT receptor, nt -3, NTR3, sortilin 1, Sort-1, hSORT1, NTR-3, Sortilin1, NT 3, SORT 1
SMPD2	ENSP00000258052	neutral sphingomyelinase, nSMase, N-SMase, smpd2, nSMase1, lsc1
BCO1	ENSP00000258168	beta, beta-carotene-15, 15'-dioxygenase, BCDO, BCO1, beta-carotene 15, 15'-monooxygenase 1, BCMO1, beta, beta-carotene 15, 15'-dioxygenase, beta-carotene oxygenase 1, BCMO
ACSBG1	ENSP00000258873	very long-chain acyl-CoA synthetase, hSBG, lpd, very-long-chain acyl-CoA synthetase, BG1, Lipidosin, ACSBG1, BG-1, HBG1, very long chain acyl-CoA synthetase
BUD13	ENSP00000260210	BUD13, BUD13 homolog

CYP2C9	ENSP00000260682	CYP2C9, cytochrome P-450 2C9, CYP2C, cholesterol 25-hydroxylase, CYP 2C, CYP2C10, cytochrome P450 2C9, cholesterol-25-hydroxylase, Cytochrome P4502C9, CYP 2C9, Cyp-2c, cytochrome P-450 PB-1, s-mephenytoin 4-hydroxylase, cytochrome P450-2C9, Cholesterol 25 hydroxylase, P450IIC9, cytochrome P450 family 2 subfamily C member 9, cytochrome P450, family 2, subfamily C, polypeptide 9
GALC	ENSP00000261304	GALC, galactosylceramidase, galactocerebrosidase, galactosylceramide beta-galactosidase, EC 3.2.1.46, galactocerebroside beta-galactosidase, galactosylceramide-beta-galactosidase, galactosyl ceramide beta-galactosidase, galactocerebrosidase, galactosyl-ceramidase
PEBP1	ENSP00000261313	RKIP, neuropolypeptide h3, PEBP, Raf kinase inhibitory protein, Raf kinase inhibitor protein, HCNP, hippocampal cholinergic neurostimulating peptide, HCNP-pp, raf kinase-inhibitory protein, Raf-kinase inhibitory protein, pBP, HCNPpp, PEBP1, phosphatidylethanolamine-binding protein 1, phosphatidylethanolamine-binding protein-1, Raf-kinase inhibitor protein, Raf-kinase-inhibitor protein, phosphatidylethanolamine binding protein 1
CYBA	ENSP00000261623	p22 phox, p22-phox, CYBA, p22phox, Cytochrome B-245, Alpha Polypeptide, cytochrome b-245 light chain, cytochrome b-245 alpha chain
ARG2	ENSP00000261783	Arg2, arginase, arginase-2, arginase II, type II arginase, Arg 2, Arginase 2, Arg-2, arginase2, arginase-II
CHD5	ENSP00000262450	NuRD complex, chromodomain helicase DNA-binding protein 5, CHD5, chromodomain helicase DNA binding protein 5, Chromodomain-helicase-DNA-binding protein 5, Chromodomain-helicase DNA binding protein 5
CBFA2T2	ENSP00000262653	p85, MTGR1, CBFA2T2, MTG8-like protein, core-binding factor, runt domain, alpha-subunit 2
PPP1R12C	ENSP00000263433	p85, AAVS1, p84, PPP1R12C
TYRO3	ENSP00000263798	Tyro3, Tyro 3, TYRO3P, rse, rek, Tyro-3, TYRO3 human, Dtk, t-IF, tyrosine-protein kinase receptor Tyro3

DNMT3A	ENSP00000264709	DNMT3A, hDNMT3a, Dnmt3a2, DNA methyltransferase 3a, EC 2.1.1.37, DNMT3A p, DNA-methyltransferase 3A, DNMT 3A, DNA methyltransferase-3a, DNA methyl transferase 3a, DNA methyltransferase 3 alpha, DNA-methyltransferase-3a, DNMT-3a, DNA (cytosine-5-)-methyltransferase 3A, DNA (cytosine-5-)-methyltransferase 3 alpha, DNA (cytosine-5)-methyltransferase 3A, DNA methyltransferase 3 A, DNA methyl-transferase 3A, DNA (cytosine-5)-methyltransferase 3 alpha, DNA methyltransferase-3-alpha, DNA methyl transferase 3 alpha, AC012074, T-B-RS
OPRK1	ENSP00000265572	Oprk1, hOPRK1, KOR, opioid receptor kappa-1, KOR-1
CPT1A	ENSP00000265641	cpt1, carnitine palmitoyltransferase 1A, CPT1A, hCPT1, EC 2.3.1.21, L-CPT1, CPT1 A, CPT 1A, CPT1-A, carnitine palmitoyltransferase 1a (liver, CPT-1a, CPT-1, carnitine-palmitoyltransferase 1A, carnitine palmitoyltransferase-1A, carnitine palmitoyl transferase 1a, carnitine palmitoyl-transferase 1a, Carnitine palmitoyl transferase-1A, carnitine palmitoyltransferase1A, carnitine palmitoyl transferase 1 A, carnitine palmitoyltransferase -1a
ANK1	ENSP00000265709	Ank, erythrocyte ankyrin, ankyrin 1, Ankyrin-1, ANK1, ankyrin R, Ank-1, ankyrinR, ankyrin-R, HSph2, Hank-1, HSPH1, Ank 1, ankyrin1, HANK1
DIDO1	ENSP00000266070	DIO-1, Dido3, Dio1, hdio1, Death inducer-obliterator 1, death inducer-obliterator-1, Dido2, DATF1, DIDO1
CDH11	ENSP00000268603	cadherin-11, CDH11, OB-cadherin, cadherin 11, osteoblast cadherin, osteoblast-cadherin, cad11, cad-11, OB cadherin, CDH-11
FCGR2A	ENSP00000271450	FcgammaRIIA, FCGR, FCGR2A, CDw32, CD32A, Fc gamma RIIA, Fc gamma receptor IIA, CD32, FCGR2, FCGR2C, Fcgamma receptor IIA, FCG2, IGF-R2, Fc gammaRIIa, Fc-gamma receptor Ila, Fc gamma-receptor IIA, Fcgamma RIIa, IGFR2, IGFR-2, low affinity immunoglobulin gamma Fc region receptor II-a, FCGR2A p, immunoglobulin G Fc receptor II, Fc fragment of IgG receptor Ila

RASA1	ENSP00000274376	p120 Ras GAP, p120, p120GAP, p120-RASGAP, p120RasGAP, RASA1, rasGAP, Ras-GAP, Ras GAP, p120Ras-GTPase-activating protein, p120 rasGAP, RAS p21 protein activator 1, p120 ras GTPase-activating protein, p120 rasGTPase-activating protein, p120-GAP, p120ras-GAP, RAS p21 protein activator, p120 GAP, RASA-1, p120 Ras-GAP, Ras GTPase-activating protein 1, capillary malformation arterio-venous malformation
CDK16	ENSP00000276052	PCTAIRE 1, PCKT1, PCTAIRE-1, Pctaire, CDK16, PCTAIRE1, PCTAIRE protein kinase 1, cyclin-dependent kinase 16
CDKN2B	ENSP00000276925	p15, p15INK4b, cyclin-dependent kinase inhibitor 2B, MTS2, CDKN2B, INK4B, p14INK4B, CDK4I, p15 INK4b, cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4, Mts-2, Cyclin-Dependent Kinase Inhibitor-2B, cyclin dependent kinase inhibitor 2B, TP15, cyclin dependent kinase inhibitor-2B, cyclin-dependent kinase 4 inhibitor B, p 15, multiple tumor suppressor 2
PIGF	ENSP00000281382	Pig-f, Pigf, p-IGF
CAMK4	ENSP00000282356	Camk4, CaMKIV, Camk-4, CaM Kinase IV, CaMK, Calcium/calmodulin-dependent protein kinase IV, CaM-kinase IV, CaM-K, Calcium/calmodulin-dependent protein kinase type IV, CaMK IV
CA2	ENSP00000285379	carbonic anhydrase II, CAII, 1 Ca2, CA II, Car 2, Car-2, EC 4.2.1.1, 2 Ca2, CA-II, carbonic anhydrase-2, cA2, 3 Ca2, Car2, 5 dog, 4 Ca2, CA 2, 1 cal, CA-2, HCA2, 2 h 15, 5 FLs, 5 ULN, 3 RGE, Carbonic anhydrase 2, cac, 3 MHC, HCAR2, 5 AML, 5 FNH, 3R-16, 2 OSM, carbonic anhydrase-II, 2 HNC
NCF1	ENSP00000289473	p47-phox, NCF-1, p47phox, p47 phox, NCF1, neutrophil cytosolic factor 1, Ncf1--a, NCF-47k, neutrophil cytosolic factor-1
EHMT2	ENSP00000364678	G9a, hBAT8, hG9a, BAT8, EHMT2, euchromatic histone-lysine N-methyltransferase 2, euchromatic histone-lysine-methyltransferase 2, euchromatic histone lysine N-methyltransferase 2, euchromatic histone lysine N-methyltransferase-2, EHMT-2, euchromatic histone lysine methyltransferase 2, KMT1C
BAG6	ENSP00000365131	HLA-B associated transcript 3, HLA-B-associated transcript 3, G3-P, BCL2-associated athanogene 6, HG3, BCL2-associated athanogene family
PCCA	ENSP00000365462	PCCA, pcc A, EC 6.4.1.3, propionyl-CoA carboxylase alpha subunit

CTTN	ENSP00000365745	cortactin, EMS1, CTTN, EMS 1, Src substrate cortactin, EMS-1
MTHFR	ENSP00000365777	MTHFR, Methylenetetrahydrofolate reductase, methylene-tetrahydrofolate reductase, 5, 10-methylenetetrahydrofolate reductase, 5, 10-methylenetetrahydrofolate reductase, methylene tetrahydrofolate reductase, 5, 10-methylene tetrahydrofolate reductase, 5, 10 methylene tetrahydrofolate reductase, 5, 10 Methylenetetrahydrofolate reductase, methylenetetrahydrofolatereductase, methylenetetrahydrofolate-reductase, methylene- tetrahydrofolate reductase, EC 1.5.1.20, methylenetetra- hydrofolate reductase, methylene tetrahydrofolatereductase, methylene-tetrahydro-folate-reductase, methylenetetra-hydrofolate reductase, 5, 10-methylenetetrahydrofolatereductase, 5, 10-Methylene-tetrahydrofolate reductase, methylene-tetra-hydrofolate reductase, methylenetetrahydro-folate reductase, methylenetetrahydro folate reductase, methylene-tetrahydrofolate-reductase, 5, 10-methylenetetra- hydrofolate reductase, 5, 10-methylene tetrahydrofolate reductase, MTHF R, Methyl- enetetrahydrofolate reductase, methylenetetrahydro-folate-reductase, methylenetetra hydrofolate reductase, methylenetetrahydrofolate reductase, 5, 10 methylenete-trahydrofolate reductase, 5, 10- methylenetetrahydrofolate reductase, 5, 10-methylene-tetrahydrofolate reductase, methylenetetrahydrofolate reductase (NAD(P)H, methylene tetrahydrofolate reductase, methyl enetetrahydrofolate reductase, 5, 10- methylenetetrahydrofolate reductase, methylene tetra-hydrofolatereductase, methylenetetrahy-drofolate reductase, 5, 10 methylenetetrahydrofolate reductase
BMI1	ENSP00000365851	Bmi-1, Bmi1, PCGF4, polycomb complex protein Bmi1, B lymphoma Mo-MLV insertion region 1 homolog, B lymphoma Mo-MLV insertion region-1 homolog, Polycomb complex protein BMI-1, BMI1 proto-oncogene, polycomb ring finger, BMI-1 proto-oncogene, polycomb ring finger
COL2A1	ENSP00000369889	COL2A1, STL1, collagen type IIa1, collagen, type II, alpha 1, collagen type II alpha 1, collagen type II alpha-1, collagen type II alpha1, alpha-1 type II collagen, Collagen type II alpha 1 chain, alpha1 type II collagen
NKX3-1	ENSP00000370253	NKX3.1, Nkx3-1, Nkx-3.1, NKX3A, homeobox protein NKX3.1, Nkx3, NKX 3.1, NK3 homeobox 1
CTNS	ENSP00000371294	cystinosin, CTNS, cystinosin, lysosomal cystine transporter
RAD51	ENSP00000372088	RAD51, RecA, hRad51, Rad51 recombinase, Rad-51, rec A, HsRAD51, MRMV2, RAD51 homolog, Rad 51, BRCC5, Rad 51 homolog, DNA repair protein RAD51 homolog 1

PAX3	ENSP00000375921	Pax3, HuP2, paired box gene 3, paired box 3, Pax-3, paired boxes, Pax 3, paired box-3
PDK1	ENSP00000376352	PDK1, PDK-1, pyruvate dehydrogenase kinase 1, pyruvate dehydrogenase kinase-1, PDHK1, pyruvate dehydrogenase kinase1
HMMR	ENSP00000377492	RHAMM, Hmnr, receptor for hyaluronan-mediated motility, hyaluronan-mediated motility receptor, IHABP, CD168, hyaluronan mediated motility receptor (RHAMM, H MMR, CD 168, receptor for hyaluronan mediated motility, hyaluronan-mediated motility receptor (RHAMM, hyaluronan mediated motility receptor, intracellular hyaluronic acid binding protein
SPOCK1	ENSP00000378401	testican-1, SPOCK1, testican, TIC-1, testican 1, SPOCK, SPARC/osteonectin, cwcvc and kazal-like domains proteoglycan 1, Sparc/osteonectin, cwcvc and kazal-like domains proteoglycan, SPARC family, SPARC/osteonectin, cwcvc and kazal like domains proteoglycan 1
HLA-A	ENSP00000379873	HLA- A, HLA-A, HLA A, HLA -A, HLA--A, HLAA, major histocompatibility complex, class I, A, HLA-A201
RNASE1	ENSP00000381057	Rac1, ribonuclease A, RAC-1, Rib-1, RNase 1, Rib1, Rac 1, rNS1, RNase1, h_rac1, HP-RNase, ribonuclease 1, RNase-1
TCF4	ENSP00000381382	TCF-4, ITF2, TCF4, SEF2, SEF-2, SEF2-1, SEF2-1B, hTCF-4, transcription factor 4, E2-2, ITF-2, PTHs, e22, transcription factor-4, immunoglobulin transcription factor-2, hTCF4, transcription-factor 4, Immunoglobulin transcription factor 2
NPY	ENSP00000384364	NPY, Neuropeptide Y, neuropeptide-Y, prepro-neuropeptide Y, preproneuropeptide Y, N PY, prepro neuropeptide Y, pre-pro-neuropeptide Y, NP-Y, pro-Neuropeptide Y
XPO1	ENSP00000384863	Crm1, CRM-1, XPO1, hCRM1, Emb, Exportin 1, Crm1p, exportin-1, exportin1, EXP1, EXP-1, XPO-1, chromosome region maintenance 1 homolog
SLC25A19	ENSP00000385312	Slc25a19, Mup-1, mitochondrial uncoupling protein1, MUP1, dnc, mitochondrial uncoupling protein-1, DN-c, dn c, mitochondrial uncoupling protein 1, solute carrier family 25 member 19, Mitochondrial Thiamine Pyrophosphate Carrier, THMD4
CLDN5	ENSP00000385477	claudin-5, BEC-1, TMVCF, transmembrane protein deleted in VCFS, BEC1, CLDN5, CLDN-5, claudin 5, claudin5
ZBTB10	ENSP00000387462	ZBTB10, zinc finger and BTB domain containing 10

NFATC1	ENSP00000389377	NF-ATc1, NFATc1, nuclear factor of activated T cells-1, nuclear factor of activated T-cells, cytoplasmic 1, Nfatc, NF-ATc, NFAT2, nuclear factors of activated T cells, nuclear factor of activated T cells 1, NFAT-2, nuclear factor of activated T cells, cytoplasmic, calcineurin-dependent 1, nuclear factor of activated T-cells 1, nuclear factor of activated T cells, cytoplasmic 1, nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1, Nuclear Factors of Activated T-cells, NFATc-1
SGCE	ENSP00000398930	Sgce, epsilon-sarcoglycan, epsilon-SG, DYT11, epsilon -sarcoglycan, epsilon sarcoglycan, Sarcoglycan epsilon, DYT-11, sarcoglycan-epsilon, DYT 11, CCDS5637.1, CCDS47642.1
PTPRJ	ENSP00000400010	Scc1, CD148, DEP-1, HPTP eta, PTPRJ, HPTP-eta, r-PTPeta, HPTPeta, protein tyrosine phosphatase receptor type J, SCC-1, Density-enhanced phosphatase-1, SCC 1, density-enhanced phosphatase 1, protein-tyrosine phosphatase receptor type J, density enhanced phosphatase-1, DEP1
FOXA2	ENSP00000400341	Foxa2, Foxa-2, Forkhead box a2, Hepatocyte nuclear factor 3beta, HNF3B, HNF-3B, hepatocyte nuclear factor-3beta, Hepatocyte nuclear factor 3 beta, Forkhead box protein A2, hepatocyte nuclear factor 3-beta, hFOXA2, fork head box protein A2, forkhead-box A2
BBC3	ENSP00000404503	p53 upregulated modulator of apoptosis, bbc3, p53 up-regulated modulator of apoptosis, p53-upregulated modulator of apoptosis, Bcl-2 binding component 3, Bcl2 binding component 3, p53-up-regulated modulator of apoptosis, p53-upregulated-modulator-of-apoptosis, p53-upregulated-modulator of apoptosis, p53 up regulated modulator of apoptosis, BCL2-binding component 3
RASGRF1	ENSP00000405963	GRF1, cdc25, Rasgrf1, guanine nucleotide-releasing protein, GRF-1, cdc-25, guanine nucleotide releasing protein, GNRP, HCDC25L, H-GRF55, Ras-GRF1, Rasgrf-1, Ras protein-specific guanine nucleotide-releasing factor 1, Ras protein-specific guanine nucleotide releasing factor 1
TOP2A	ENSP00000411532	TOP2A, TOP2, DNA topoisomerase IIalpha, DNA topoisomerase 2alpha, DNA topoisomerase II alpha, DNA topoisomerase II-alpha, TOP2A p, TOP2-A, DNA topoisomerase 2-alpha, TOP-2, DNA topoisomerase IIa, TOP-2a
ST6GALNAC5	ENSP00000417583	ST6GalNAc V, ST6GALNAC5, GD1alpha synthase, SIAT7E, ST6GalNAcV, sialyltransferase 7e

PARK7	ENSP00000418770	DJ-1, PARK7, DJ1, protein DJ-1, 2 or -3, hDJ-1, Hdj1, oncogene DJ-1, PARK-7, oncogene DJ1, protein DJ1, Parkinson protein 7, parkinsonism associated deglycase, PARK 7, parkinsonism-associated deglycase, Parkinson disease protein 7, DJ -1, Parkinson disease-associated genes
AADAT	ENSP00000423190	AADAT, alpha-aminoadipate aminotransferase, KAT II, kynurenine aminotransferase II, KAT2, hKAT2, KATII, kynurenine-aminotransferase II, kynurenine amino transferase II
PIK3R1	ENSP00000428056	p85, p85alpha, p85 alpha, GRB-1, PIK3R1, 5 ITD, phosphoinositide-3-kinase, regulatory subunit 1 (alpha, phosphoinositide-3-kinase regulatory subunit 1, GRb1, phosphoinositide-3 kinase regulatory subunit 1, phosphoinositide-3-kinase, regulatory subunit 1, phosphoinositide-3-kinase regulatory subunit alpha, G-Rb1
SP7	ENSP00000443827	Osx, Osterix, Sp7, HSP7, Sp transcription factors, Sp-transcription factors, zinc finger protein Osterix, Sp7 transcription factor, transcription factor sp7
LIMS1	ENSP00000446121	PINCH, PINCH-1, PINCH1, senescent cell antigen, LIMS1, LIM and senescent cell antigen-like-containing domain protein 1, Senescent-cell antigen
DUX4	ENSP00000458065	DUX4, Double homeobox 4, DUX-4, double homeobox protein 4, DUX4L, DUX4p
GDF10	ENSP00000464145	BMP-3b, GDF-10, Bip, bone morphogenetic protein-3B, Growth/differentiation factor-10, Gdf10, BMP3B, Bone morphogenetic protein 3B, Growth differentiation factor-10, growth differentiation factor 10
ACP5	ENSP00000468767	tartrate-resistant acid phosphatase, ACP5, Acp 5, TR-AP, human purple acid phosphatase, Type 5 acid phosphatase, TRACP 5b, TRACP-5b, TRACP5b, tartrate-resistant acid phosphatase type 5, tartrate resistant acid phosphatase, EC 3.1.3.2, hPAP, TRACP 5a, tartrate-resistant acid phosphatase type-5, acid phosphatase 5, tartrate resistant, TRACP5a
NTF4	ENSP00000469455	NT4, NT-4, NTF4, neurotrophin-4, NT4/5, neurotrophin-5, NT-4/5, NT-5, NT5, neurotrophin 4, NTF5, Ntf-5, NT-4 / 5, NT 4/5
COMMD3-BMI1	ENSP00000473391	Bmi1, Bmi-1, PCGF4, polycomb complex protein Bmi1, Polycomb complex protein BMI-1, COMMD3-BMI1

DUOX2	ENSP00000475084	nicotinamide adenine dinucleotide phosphate oxidase, THOX2, DUOX2, LNOX2, thyroid oxidase 2, p138(Tox, nicotinamide adenine dinucleotide phosphate-oxidase, Dual oxidase 2, nicotin-amide adenine dinucleotide phosphate-oxidase, dual-oxidase 2, Dual Oxidase-2, Nicotinamide-Adenine Dinucleotide Phosphate Oxidase
NOS1	ENSP00000477999	nNOS, NOS1, nitric oxide synthase 1, Neuronal NOS, bNOS, constitutive NOS, NOS-1, Nos 1, NOS1-P, nitric oxide synthase-1, n-NOS, B-NOS
RPS10	ENSP00000481646	RPS10, Hs10, ribosomal protein S10, HS-10, S10-P
CCL4	ENSP00000482259	SCYA4, MIP-1beta, HC21, CCL4, LAG-1, Lag1, MIP1-beta, Scya2, MIP-1 beta, HLA-G1, macrophage inflammatory protein-1 beta, ACT-2, Mip-1b, AT744.1, macrophage inflammatory protein 1 beta, macrophage inflammatory protein-1beta, Lag1p, MIP1beta, macrophage inflammatory protein 1beta, macrophage-inflammatory protein-1beta, MIP 1beta, macrophage inflammatory protein-1-beta, small inducible cytokine A4, MIP1 beta, HLAG1, CCL-4, MIP1B, chemokine ligand 4, ACT2, chemokine (C-C motif) ligand 4, C-C motif chemokine ligand 4, HLAG-1
NR2C2	ENSP00000483059	TAK1, HTR4, TR4, hTAK1, NR2C2, TAK-1, orphan nuclear receptor TR4, nuclear receptor subfamily 2, group C, member 2, testicular receptor 4, Testicular Receptor-4, TAK 1, nuclear receptor subfamily 2 group C member 2
HOTAIR	HOTAIR	HOTAIR, HOTAIR 5, HOTAIR 3, HOTAIR3, HOTAIR5, HO-TAIR
MIR146B5P	hsa-miR-146b-5p	miR-146b, miR-146b5p, MiR-146b-5p, hsa-miR-146b, miR146b-5p, miR146b, hsa-miR-146b-5p, hsa-miR146b-5p
MIR7-3HG	MIR7-3HG	HuH7, HUH-7, HuH 7, uc002mbe.2, MIR7-3HG
PWAR4	PWAR4	PAR4, par-4, Par 4
CYGB	ENSP00000293230	cytoglobin, Hgb, Cygb, stellate cell activation-associated protein, STAP, HG-B
FGF19	ENSP00000294312	FGF19, 2----p23, FGF-19, fibroblast growth factor 19, Fibroblast growth factor-19, 2 p23, fibroblast growth factor19
RAD21	ENSP00000297338	SCC1, hRad21, RAD21, Rad21p, kleisin, Scc1p, Mcd1p, hHR21, MCD1, rad 21, SCC-1, SCC 1, RAD21 homolog (S. pombe, RAD21 p, RAD21 cohesin complex component

ALDH1A1	ENSP00000297785	HEL 12, ALDH1, aldehyde dehydrogenases, ALDH1A1, retinaldehyde dehydrogenase 1, Raldh1, AldC, aldehyde dehydrogenase 1 family member A1, aldehyde dehydrogenase 1 family-member A1, retinal dehydrogenase 1, ALD-C, ALDH-1, ALDH 1A1, retinal dehydrogenase-1, raldh-1, aldehyde dehydrogenase family 1 member A1, Aldh1a 1
WRN	ENSP00000298139	WRN, RECQL2, RecQ3, RECQL3, Werner syndrome ATP-dependent helicase, Werner syndrome RecQ like helicase, RECQ-like helicases
DEPP1	ENSP00000298295	decidual protein induced by progesterone, C10orf10, DEPP
TRIM68	ENSP00000300747	GC109, TRIM68, SS-56
CYP2A6	ENSP00000301141	CYP2A6, CPA6, CYP2A, cytochrome P4502A6, coumarin 7-hydroxylase, Cytochrome P450 2A6, CYP2A3, P-450PB, CYP 2A, P450PB, CYP 2A6, cytochrome P450IIA3, cytochrome P450, family 2, subfamily A, polypeptide 6, cytochrome P450 family 2 subfamily A member 6
PELP1	ENSP00000301396	PELP1, p160, Hmx3, MNAR, modulator of nongenomic activity of estrogen receptor, transcription factor Hmx3, Proline-, glutamic acid- and leucine-rich protein 1, proline-, glutamic acid- and leucine-rich-protein-1, proline, glutamate and leucine rich protein 1, PELP-1, Proline-, glutamic acid- and leucine-rich protein-1, modulator of non-genomic activity of estrogen receptor, proline, glutamic acid and leucine rich protein 1, proline-, glutamate- and leucine-rich protein 1
CD14	ENSP00000304236	CD14, CD1 4, myeloid cell-specific leucine-rich glycoprotein, CD14 molecule, Monocyte differentiation antigen CD14, CD14 antigen, CD-14, CD 14, hCD14
ING2	ENSP00000307183	ING1L, p32, p33ING2, ING2, hp32, inhibitor of growth family member 2, inhibitor of growth family, member 2, P3 2, inhibitor of growth protein 2
KRT17	ENSP00000308452	PC-2, PC2, HPC2, CK 17, keratin 17, Krt17, CK17, cytokeratin 17, Pc 2, keratin-17, Ck-17, Hpc-2, cytokeratin 17, KRT 17, Keratin17
TNKS	ENSP00000311579	tankyrase, tankyrase 1, tankyrase-1, TNKS, poly(ADP-ribose) polymerases, TIN1, EC 2.4.2.30, poly (ADP-ribose) polymerases, TNKS-1, TNKS1, poly (ADP ribose) polymerases, tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase, PARP5A, tankyrase1, ARTD-5

HNF4A	ENSP00000312987	HNF4alpha, HNF-4alpha, HNF4, TCF, HNF-4, hepatocyte nuclear factor 4alpha, hepatocyte nuclear factor 4 alpha, NR2A1, Hnf4a, hHNF-4, HNF-4 alpha, hepatocyte nuclear factor-4 alpha, hepatocyte nuclear factor-4alpha, hHNF-4A, transcription factor HNF-4, TCF14, HNF4 alpha, HNF- 4 alpha, hepatocyte nuclear factor 4-alpha, hepatocyte nuclear factor4alpha, HNF 4 alpha, HNF-4A, HNF 4alpha, hepatocyte nuclear factor 4A, HNF4 A, hepatocyte nuclear factor-4a, HNF4-alpha, HNF4A p, Hepatocyte Nuclear Factor 4, Alpha, HNF4A Human, transcription factor 14, HNF4-A, transcription factor HNF4
AURKB	ENSP00000313950	Ipl1, Aim-1, Aurora B, Aurora-B, Aurora kinase B, AIM1, ARK2, STK12, AIK2, Ipl1p, Ark-2, STK1, STK-1, AURKB, Aurora kinase-B, AURKB-Sv2, AuroraB, S-TK1, AURK-B
DUOX1	ENSP00000317997	ThOX1, nicotinamide adenine dinucleotide phosphate oxidase, nicotin-amide adenine dinucleotide phosphate-oxidase, Duox1, DUOX, nicotinamide adenine dinucleotide phosphate-oxidase, LNOX1, dual oxidase 1, dual oxidase-1, Nicotinamide-Adenine Dinucleotide Phosphate Oxidase, dual oxidase1
GEN1	ENSP00000318977	GEN1, Gen-1, Flap endonuclease GEN homolog 1
CALR	ENSP00000320866	calreticulin, cC1q-R, crt, Calr, CRTC, CR-t, cC1qR, CR T
PTH1R	ENSP00000321999	PTHR, PTH1R, PTHR1, parathyroid hormone/parathyroid hormone-related peptide receptor, parathyroid hormone receptor-1, PTH/PTHrP type I receptor, parathyroid hormone 1 receptor, 1BL1, P-thr, PTH-1R, PTH-R, Parathyroid Hormone Receptor 1, parathyroid hormone-1 receptor, PTH-1-R, hPTHR1, parathyroid hormone/ parathyroid hormone-related peptide receptor
LMNB2	ENSP00000327054	lamins, LAMB2, LMNB2, lamin B2, Lamb-2, lamin B 2, HLA-MB2
PAWR	ENSP00000328088	Par-4, prostate apoptosis response-4, PAR4, prostate-apoptosis-response-4, PAWR, prostate apoptosis response-4 protein, prostate apoptosis response 4, PRKC, apoptosis, WT1, regulator, prostate apoptosis response 4 protein, Par 4
WT1	ENSP00000331327	Wt1, AWT1, WT33, WT-1, Wilms tumor 1, EWS-WT1, EWS WT1, W T1, WT-33, Wilms tumor-1, EWS-WT 1, Wilms-Tumor 1, NPHS4, WT1 p, Wilms Tumor Protein, WT1 human, wt 1p

MEF2C	ENSP00000340874	MEF2C, MEF-2C, myocyte enhancer factor 2C, hMEF2C, myocyte enhancer factor-2C, myocyte-specific enhancer factor 2C, Myocyte enhancer factor 2 C, Myocyte-enhancer factor 2C
PTPN11	ENSP00000340944	Shp2, SHP-2, PTPN11, PTP2C, SH-PTP2, protein tyrosine phosphatase, nonreceptor type 11, protein-tyrosine phosphatase, non-receptor-type 11, SH-PTP3, protein-tyrosine phosphatase-1D, BPTP3, Protein-tyrosine phosphatase, nonreceptor type 11, protein-tyrosine phosphatase, nonreceptor-type 11, PTP-1D, PTP-2C, SHPTP2, PTPN 11, protein tyrosine phosphatase, non-receptor type 11, protein tyrosine phosphatase, non-receptor-type 11, protein tyrosine phosphatase, nonreceptor-type 11, CF C, PTPN11 p, tyrosine-protein phosphatase non-receptor type 11, 5 IBM, protein-tyrosine phosphatase, non-receptor type 11, PTPN-11, hShp2, HNS1, cfc
TNNI3	ENSP00000341838	cardiac troponin I, TNNI3, cTnI, TNNC1, Cardiac troponin-I, 1OZS, c Tn-I, cTn-I, TNNI3-p, cTn I, TNNI3 p, Cardiac-Troponin-I
CYP1A2	ENSP00000342007	CYP1A2, cytochrome P450 1A2, cp12, P3-450, CYP 1A2, EC 1.14.14.1, cholesterol-25-hydroxylase, cytochrome P450 family 1, cholesterol 25-hydroxylase, cytochrome P4501A2, cytochrome P(3)450, CYPIA2, Cytochrome P-4501A2, Cholesterol 25 hydroxylase, cytochrome P450-1A2, cytochrome P-450 1A2, 2H14, Cytochrome P450 Family 1 Subfamily A Member 2, Cytochrome P450 4, Cyp1a-2, CYP IA2
CDH5	ENSP00000344115	vascular endothelial cadherin, VE-Cadherin, CDH5, vascular endothelial-cadherin, CD144, cadherin-5, vascular-endothelial-cadherin, cadherin 5, VECadherin, VE cadherin, cadherin5
PDPK1	ENSP00000344220	3-phosphoinositide-dependent protein kinase 1, PDK1, PDK-1, PKB kinase, 3-phosphoinositide-dependent protein kinase-1, 3 ion, PDPK1, PDPK-1, 3-phosphoinositide dependent protein kinase-1, PDPK2P

HAVCR1	ENSP00000344844	TIM-1, TIM, TIM1, HAVcr-1, Kidney injury molecule-1, hepatitis A virus cellular receptor 1, KIM-1, HAVCR1, hHAVcr-1, Ki-M1P, Kim 1, kidney injury molecule 1, HAVCR, hKIM-1, KIM1, T cell immunoglobulin and mucin domain-containing protein 1, Kidney-injury-molecule-1, T-cell immunoglobulin and mucin domain-containing protein 1, CD365, kidney injury molecule - 1, T-cell immunoglobulin mucin receptor 1, Kidney-injury-molecule 1, Ki-M1
ANXA6	ENSP00000346550	p70, annexin VI, p68, ANX6, annexin A6, annexins, 67-kDa calelectrin, HP68, AnxA6, protein III, annexin-VI
HNRNPA2B1	ENSP00000346694	hnRNP A2, hnRNPA2B1, hnRNPA2, HNRPA2B1, hnRNP B1, heterogeneous nuclear ribonucleoprotein A2/B1, heterogeneous nuclear ribonucleoprotein-A2/B1, hnRNP-B1, hnRNP-A2, heterogeneous nuclear ribonucleoproteins A2/B1, hnRNPB1, hnRNP A2B1, hnRNP A2 B1
RAC1	ENSP00000348461	Rac1, Rho family GTPases, Rac-1, Ras-related C3 botulinum toxin substrate 1, Rho-family GTPases, ras-related C3 botulinum toxin substrate-1, Rac 1, p21Rac1, Ras-related C3 botulinum toxin substrate 1, h_rac1, Ras-related C3 botulinum toxin substrate 1 (Rho family, small GTP-binding protein Rac1, Rac family small GTPase 1, Ras related C3 botulinum toxin substrate1, p21-rac1
GIP	ENSP00000350005	gastric inhibitory polypeptide, glucose-dependent insulintropic polypeptide, incretin hormone, gastric-inhibitory polypeptide, Glucose dependent insulintropic polypeptide
CX3CR1	ENSP00000351059	CCRL1, CX3CR1, fractalkine receptor, CMKBRL1, CX3C chemokine receptor 1, CMK-BRL1, chemokine receptor 1, frac-talkine receptor, chemokine (C-X3-C motif) receptor 1, chemokine receptor-1, CX3C-chemokine receptor 1, hCX3CR1, C-X3-C motif chemokine receptor 1
FCGR2B	ENSP00000351497	FCGR2B, FcgammaRIIb, FCGR2, FCG2, Fcgamma receptor IIB, CDw32, CD32, Fc gamma RIIB, IGF-R2, CD32B, Fc gamma receptor IIb, Fc-gamma receptor IIB, IGFR2, IGFR-2, Fc fragment of IgG receptor IIb, Fc-gamma receptor-IIb
DIO1	ENSP00000354643	DIO-1, selenoprotein S, dio1, hdio1, Type I iodothyronine deiodinase, type-I iodothyronine deiodinase, type I 5'-deiodinase, iodothyronine deiodinase 1, selenoprotein-S
MTR	ENSP00000355536	MTR, methionine synthase, cblG, EC 2.1.1.13, 5-methyltetrahydrofolate-homocysteine methyltransferase, MTR-201, MTR-001

CFH	ENSP00000356399	CFH, complement factor H, LRG-47, FHL1, beta 1H, FHL 1, FHL-1, 1 HCC, hUS, AMBP-1, HF-2, CFHL3, complement factor-H, 4 on T, beta1H, complement-factor H, Complement Factor- H, Hf2
HBS1L	ENSP00000356811	HBS1L, Hbs1, eRFS, Hbs1p, EF1A, EF-1A
PEA15	ENSP00000357055	PEA-15, PEA15, MAT1, ped/pea-15, HMAT1, Phosphoprotein Enriched in Astrocytes-15, astrocytic phosphoprotein PEA-15, phosphoprotein enriched in diabetes, death effector domain containing, PED/ PEA-15, phosphoprotein enriched in astrocytes 15, Mat 1, PED/PEA15, phosphoprotein enriched in astrocytes15
ACKR1	ENSP00000357103	DARC, Duffy-blood-group, gpD, FY glycoprotein, Gp-Fy, gpFy, GP D, glycoprotein D, Duffy antigen/chemokine receptor, G lycoprotein D, atypical chemokine receptors, ACKR1, Atypical Chemokine Receptor 1, DARC/ACKR1, glycoprotein-D
FCGR1A	ENSP00000358165	FcgammaRIa, Fc gamma RI, FCGR1A, FcgammaRI, FCGR1, CD64, Fcgamma RIA, Fc gammaRI, IGFR1, Fcg1, IGF-R1, IGFR-1, IGF-R-1, FcgammaR I, hCD64, high affinity immunoglobulin gamma Fc-receptor I, CD 64, FCRI, CD64A, CD64 - A
MAP3K7	ENSP00000358335	TAK1, Map3k7, hTAK1, TGF-beta-activated kinase 1, TGF-beta activated kinase 1, TGFbeta-activated kinase 1, TGF-beta-activated kinase-1, TAK-1, TAK 1, mitogen-activated protein kinase kinase kinase 7, MAP 3K7, MEKK7
GSTA4	ENSP00000360002	GST A4-4, hGSTA4, Gsta4, glutathione S-transferase A4-4, Glutathione-S-transferase A4-4, GSTA4-4, glutathione S-transferase alpha 4, glutathione S-transferase A4, GST-A4, Glutathione-s-transferase A 4, glutathione S transferase-A4
CPT2	ENSP00000360541	carnitine palmitoyltransferase II, CPT2, CPTase, CPT1, Carnitine-palmitoyltransferase 2, hCPT1, carnitine palmitoyl transferase II, carnitine palmitoyl transferase 2, carnitine palmitoyltransferase 2, EC 2.3.1.21, carnitine palmitoyltransferase-2, CPT 2, Carnitine palmitoyl-transferase II, CPT-2, Carnitine palmitoyltransferase-II, CPT-1, carnitine-palmitoyl-transferase II, carnitine-palmitoyl-transferase-II, carnitine palmitoyl transferase-II
ADA	ENSP00000361965	adenosine deaminase, ADA1, ADA-1, adenosine aminohydrolase, EC 3.5.4.4, adenosinedeaminase, ADA 1, adenosine-deaminase, Ad-A, ADA human, ada, adenosine deaminase, ADA- human, EC3.5.4.4

TTPAL	ENSP00000361995	C20ORF121, TTPAL
SGPL1	ENSP00000362298	SGPL1, Spl, S1PL, sphingosine-1-phosphate lyase 1, NPHS14, sphingosine-1-phosphate lyase-1
CHD6	ENSP00000362330	CHD5, CHD6, chromodomain helicase DNA binding protein 6
PGK1	ENSP00000362413	PGK1, Pkg-1, phosphoglycerate kinase 1, hPgk-1, Mig-10, phosphoglycerate kinase-1, MIG10, PGK 1, phosphoglyceratekinase-1
ANGPTL2	ENSP00000362524	ARP2, HARP, Angptl2, ANGPTL-2, Angiopoietin-like, angiopoietin-related protein-2, angiopoietin-like 2, angiopoietin-related protein 2, angiopoietin-like protein 2, HARP2, Angiopoietin Like Protein 2, angiopoietin-like protein-2, Angiopoietin-Like-2, Angiopoietin like-2, Angiopoietin Like, Angptl 2
TNFSF12	ENSP00000293825	TWEAK, tumor necrosis factor superfamily, Apo3L, Apo3 ligand, tumor-necrosis factor superfamily, TNFSF12, Apo3-L, TNF-related weak inducer of apoptosis, tumor necrosis factor super-family, tumor necrosis factor superfamily, member 12, tumor necrosis factor-superfamily, TNFSF-12, tumor necrosis factor (ligand) superfamily, member 12, TNF superfamily member 12, tumor necrosis factor super family
CXCR1	ENSP00000295683	IL8RA, CXCR1, CC CKR1, IL8R1, CC CKR-1, C-C CKR-1, IL-8R1, IL-8RA, CC-CKR1, CXCR-1, chemokine receptor 1, CKR-1, chemokine receptor-1, C-X-C motif chemokine receptors, CXC-chemokine receptor type1, Chemokine (C-X-C motif) receptor 1, C-X-C motif chemokine receptor 1
GRIA2	ENSP00000296526	GluR-B, GluR2, GluA2, HBGR2, glutamate receptor 2, GluR B, GluRB, Gria2, glutamate ionotropic receptor AMPA type subunit 2, glutamate ionotropic receptor AMPA-type subunit 2
SHH	ENSP00000297261	Shh, Sonic Hedgehog, Tpt, Sonic hedgehog protein, Sonic Hedge Hog, Sonic Hedgehog homolog, Sonic-Hedgehog, HHG1, Shh human, TP-T
TSC1	ENSP00000298552	TSC1, hamartin, TSC, TSC complex, TSC-1, TSC 1, hTSC1, TS-C1, TS-C1, TSC1 p, lam
BIRC5	ENSP00000301633	EPR-1, Birc5, BIRC-5, EPR1, baculoviral IAP repeat-containing 5, Baculoviral IAP repeat containing 5

CYP7A1	ENSP00000301645	Cholesterol 7alpha-hydroxylase, CYP7A1, CYP7, cholesterol 7 alpha-hydroxylase, cholesterol 7alpha hydroxylase, cholesterol 7-alpha-hydroxylase, cytochrome P450 7A1, hCYP7A1, cholesterol-7-alpha-hydroxylase, Cholesterol 7-alpha hydroxylase, cytochrome P450, family 7, subfamily a, polypeptide 1, CYP 7A1
CCDC8	ENSP00000303158	p90, CCDC8, coiled-coil domain containing 8, Coiled-coil domain-containing protein 8
PEX6	ENSP00000303511	peroxisome assembly factor-2, Pex6, Pxaaa1p, PAF-2, peroxins, Pex6p, PXAAA1, peroxisomal biogenesis factor 6, HPAF2, PEX6 p
CDC25A	ENSP00000303706	Cdc25A, cell division cycle 25A, dual-specificity phosphatase Cdc25A, CDC25 A, CDC 25A, Cell division cycle 25 A, CDC25-A, dual specificity phosphatase Cdc25A
SCG2	ENSP00000304133	secretogranin II, Secretoneurin, granins, chromogranin C, SCG2, SGII, EM66, SCG-2, secretogranin-2, secretogranin-II, SCG 2
ADORA2B	ENSP00000304501	adenosine receptors, adenosine A2b receptor, ADORA2B, ADORA2, adenosine receptor A2b, adenosine A2B-receptor
ISG20	ENSP00000306565	CD25, ISG20, HEM45, hCD25, interferon-stimulated gene 20 kDa protein, ISG-20, CD-25, interferon-stimulated exonuclease gene 20, CD 25
NPTX1	ENSP00000307549	NP1, Np-1, Neuronal pentraxin 1, HNP-1, HNP1, NPTX1, HNP 1, neuronal pentraxin I, NPTX-1
F2	ENSP00000308541	prothrombin, EC 3.4.21.5, coagulation factor II, 5 to -3, 1 ppb, HF-2, 4rKO, 1 THP, 1Thr, coagulation factor II (thrombin, pro-thrombin, 1 nt 1, 1-NT1, Hf2, 2 Fe-S, 1-NRP, coagulation factor II, thrombin, 2 cN0, 1 to m, 1-KTS
RHOD	ENSP00000308576	Rho, Rho family GTPases, Rho-family GTPases, rhoHP1, RhoD, Rho-related protein HP1, ARHD
OLR1	ENSP00000309124	LOX-1, OLR1, lectin-like oxidized LDL receptor-1, oxidized low-density lipoprotein receptor 1, LOX1, oxidized low-density-lipoprotein receptor-1, oxidized low density lipoprotein receptor-1, lectin-like oxidized LDL receptor 1, oxidized low-density lipoprotein receptor-1, LOXIN, sLOX-1, oxidised low-density lipoprotein receptor 1, OLR-1, oxidized low-density lipoprotein-receptor 1, lectinlike oxidized LDL receptor-1, lectin-type oxidized LDL receptor 1, oxidized low density lipoprotein receptor 1, lectin-type oxidized LDL receptor-1, sLOX -1, LOX -1, Oxidized low-density lipoprotein (lectin-like) receptor 1, LOX_1

XCR1	ENSP00000310405	CCXCR1, GPR5, GPR-5, chemokine receptor 1, lymphotactin receptor, XCR1, XC chemokine receptor 1, G-protein coupled receptor 5, G protein-coupled receptor 5, G-protein-coupled receptor 5, G-protein coupled receptor5, chemokine receptor-1, X-C motif chemokine receptor 1, G Protein-coupled Receptor-5
CTSF	ENSP00000310832	cathepsin F, cathepsin S, cathepsins, CTSF, cathepsin-F, cathepsin-S
CTSW	ENSP00000311300	cathepsin S, cathepsins, cathepsin W, lymphopain, cathepsin-S
IQCB1	ENSP00000311505	IQCB1, nephrocystin-5, NPHP5, p53 and DNA damage-regulated IQ motif protein, IQ calmodulin-binding motif-containing protein-1
PLA2G1B	ENSP00000312286	phospholipase A2, PLA2, phospholipase A-2, PLA2G1B, phospholipase-A2, phospholipaseA2, PLA2A, PPLA2
PANK2	ENSP00000313377	PANK2, harp, hPANK2, pantothenate kinase 2, EC 2.7.1.33, pantothenate kinase-2, pantothenate-kinase 2, PANK-2
GAK	ENSP00000314499	cyclin-G associated kinase, GAK, Cyclin G-associated kinase, Cyclin-G-associated kinase, cyclin G associated kinase, DNAJC26
TYMS	ENSP00000315644	thymidylate synthase, TYMS, EC 2.1.1.45, thymidylate synthetase, 5 x 4 x, T MS
STAT2	ENSP00000315768	STAT2, ISGF3, ISGF-3, p113, Signal transducer and activator of transcription 2, P113P, Stat-2, signal transducer and activator of transcription-2, hSTAT2
HSD11B2	ENSP00000316786	HSD11B2, 11beta-hydroxysteroid dehydrogenase type 2, 11 beta-hydroxysteroid dehydrogenase type II, HSD11K, 11 beta-hydroxysteroid dehydrogenase type 2, 11Beta-hydroxysteroid dehydrogenase type II, HSD2, HSD 11B2, 11betahydroxysteroid dehydrogenase type 2, HSD11 B2, 11beta-hydroxysteroid dehydrogenase type-2, hydroxysteroid dehydrogenase2, 11-beta hydroxysteroid dehydrogenase type 2, 11-beta-hydroxysteroid dehydrogenase type 2, hydroxysteroid dehydrogenase 2, HSD-2, hydroxysteroid (11-beta) dehydrogenase 2, AME-1, 11 beta-hydroxysteroid dehydrogenase type-2, hydroxysteroid dehydrogenase-2, HSD 2
NEUROG1	ENSP00000317580	neurogenin1, ngn1, neuroD3, neurogenin-1, Neurogenin 1, ngn, NEUROG1
TPO	ENSP00000318820	thyroid peroxidase, T-P-X, Tpo, T PO, MS-A, thyroid-peroxidase, Tpx

HCLS1	ENSP00000320176	p75, HP75, HCLS1, hematopoietic cell-specific Lyn substrate 1, HP-75, hematopoietic cell-specific Lyn substrate-1, hematopoietic cell specific Lyn substrate-1, hematopoietic-lineage-cell-specific protein, Hematopoietic lineage cell-specific protein
ETV4	ENSP00000321835	E1AF, PEA3, E1A-F, adenovirus E1A enhancer binding protein, E1A enhancer binding protein, ETV4, adenovirus E1A enhancer-binding protein, PEA-3, ets variant gene 4, ETV-4, ets variant 4, ETS translocation variant 4
SIGLEC7	ENSP00000323328	siglec-7, p75, p75/AIRM1, adhesion inhibitory receptor molecule 1, Siglec7, HP75, adhesion inhibitory receptor molecule-1, HP-75, sialic acid-binding Ig-like lectin 7
METAP2	ENSP00000325312	p67, aminopeptidases, MAP-2, MetAP2, MAP2, MAP 2, methionine aminopeptidase 2, Methionine aminopeptidase-2, MetAP-2, amino peptidases, amino-peptidases, MAP - 2
CYP11B2	ENSP00000325822	CYP11B2, aldosterone synthase, steroid 18-hydroxylase, CYP11B, P-450C18, P-450aldo, cytochrome P-450aldo, CPN2, P450C18, aldosterone-synthase, Cpn-2, P450aldo, hCyp11B2, CYP11-B2, cytochrome P450 family 11 subfamily B member 2
NOG	ENSP00000328181	Nog, noggin, SYM1, SYNS1
EPHB3	ENSP00000332118	EphB3, hek2, HEK 2, EK2, EK-2, EPH-B3, Ephrin type-B receptor 3
PTP4A3	ENSP00000332274	PRL-3, PRLR, phosphatase of regenerating liver-3, PRL-R, PRL3, PTP4A3, Phosphatase of regenerating liver 3, protein-tyrosine phosphatase 4A3, Protein tyrosine phosphatase 4A3, protein-tyrosine phosphatase of regenerating liver 3, Phosphatase of Regenerating Liver3, Protein tyrosine phosphatase of regenerating liver 3, protein tyrosine phosphatase type IVA, member 3, 2 MBC
SERPINA5	ENSP00000333203	protein C inhibitor, plasma serine protease inhibitor, plasminogen activator inhibitor-3, 1 PAI, pCI, Serpina 5, PAI-3, SERPINA5, Serpin A5, serpin-A5, ProteinC inhibitor, Plasminogen Activator Inhibitor 3, PC-I, 2 PAI
LAMP1	ENSP00000333298	LAMP1, CD107a, lamp-1, h-lamp-1, Lamp 1, lysosomal associated membrane protein-1, Lysosomal-associated membrane protein-1, lysosomal-associated membrane protein 1, CD 107a, lysosomal associated membrane protein 1, Lysosome associated membrane glycoprotein 1

TTF1	ENSP00000333920	TTF-1, TTF-I, TTF1, Transcription Termination Factor 1, transcription termination factor, RNA polymerase I, transcription termination factor-1
HBB	ENSP00000333994	Hb D, Hbb, 3D17, HBD, hemoglobin beta-chain, beta-Globin, hemoglobin beta chain, beta-globin, betaGlobin, hemoglobin subunit beta, hemoglobin subunits, Beta globin, 1-J40, 1 CBL, 1BB-B
ADORA2A	ENSP00000336630	adenosine receptors, RDC8, adenosine A2a receptor, ADORA2, ADORA2A, adenosine receptor A2A, 1 mm H, adenosine A2A-receptor, adenosine-A2A receptor
EDN3	ENSP00000337128	ET-3, ET3, EDN3, endothelin-3, endothelin 3, Endothelin3, EDN-3, endothelin- 3, preproendothelin-3, PPET-3, EDN 3
SLC22A8	ENSP00000337335	hOAT3, OAT3, SLC22A8, organic anion transporter 3, organic anion transporter-3, Oat 3
FOXG1	ENSP00000339004	Foxg1, FOXG1B, Brain factor-1, HFK2, brain factor 1, Hb F1, BF-1, HFK3, FOXG1A, HBF-2, HFK1, FKH2, BF1, FOXG1C, forkhead box G1, HBF-1, fork-head box protein G1, HbF 2, forkhead box G1B, forkhead box protein G1, forkhead-box protein G1, FOXG1 c
RHD	ENSP00000339577	RH30, RhD, Rh D, Rhcd, RhXIII, Rh30A, Rh-D, HRH4, Rh4
TRIM24	ENSP00000340507	TIF1, Tif1a, Tif-1alpha, TIF1alpha, TRIM24, transcriptional intermediary factor 1, TIF1 alpha, HTIF1, PTC6, htif 1, tripartite motif-containing 24, transcription intermediary factor 1alpha, TIF-1, transcription intermediary factor 1-alpha, tripartite motif containing 24, TF-1a, Tripartite motif-containing protein 24, transcriptional intermediary factor-1
MIA3	ENSP00000340900	ARNT, TANGO, TANGO1, C219-reactive peptide, MIA3, MIA-3
NEO1	ENSP00000341198	neogenin, NEO1, NGN, Neogenin-1, Neogenin1
NANOS3	ENSP00000341992	NOS3, nanos3, NOS 3, NOS-3
TNFSF13	ENSP00000343505	tumor-necrosis factor superfamily, tumor necrosis factor superfamily, Tnfsf13, tumor necrosis factor super-family, CD256, tumor necrosis factor-superfamily, APRoliferation inducing ligand, a-proliferation-inducing ligand, TNF superfamily member 13, tumor necrosis factor super family
CTSL	ENSP00000345344	Cathepsin L, cathepsin S, 3 of 9, CatL, Cat L, cathepsins, 3 of 8, Mep, CTSL, major excreted protein, cathepsin L1, Cathepsin-L, cathepsin-S, cathepsin L-1, c-ATL

TOR1A	ENSP00000345719	DYT1, DQ2, TOR1A, torsin A, torsinA, TorA, torsin-A, DYT-1, DYT 1, torsin 1A, TOR1-A, torsin family 1, member A, DQ 2, Torsin1A
ATP7A	ENSP00000345728	HMC-1, ATP7A, MNK, MC1, ATP7 A, Mc 1, MC-1, HMC1, Copper-transporting ATPase 1, ATPase copper transporting alpha, ATPase copper-transporting alpha
ANXA2	ENSP00000346032	p36, annexin II, Annexin A2, lipocortin II, PAP-IV, annexins, LIP2, Annexin 2, Anx2, calpactin I heavy chain, annexin-II, Pap IV, Annexin-2, annexin2, AnxA2, p36p, annexin-A2, AnnexinA2, p3-6, lipocortin-II
UGT1A9	ENSP00000346768	HUGT1, UGT1A9, Gnt-1, UGT1, UDPGT, Hlug P4, UGT-1, UDP glycosyltransferase 1 family, polypeptide A9, HlugP4, GNT1, UDP-glucuronosyltransferase 1A9
NKX2-1	ENSP00000346879	thyroid transcription factor-1, TTF-1, NKX2.1, TTF1, NKX2-1, NK-2, NMTC1, TITF1, thyroid transcription factor 1, TEBP, Thyroid nuclear factor 1, T/ebp, NK2, TITF-1, Nk2 homeobox 1, Nkx 2.1, thyroid-specific enhancer-binding protein, Nkx-2.1, HT-ITF1, thyroid-specific-enhancer-binding protein, NK2 homeobox-1, NKX-2-1, thyroid transcription factor -1
PDZD3	ENSP00000347742	intestinal and kidney-enriched PDZ protein, IKEPP, PDZK2, PDZ domain-containing protein 2, PDZ domain-containing protein 3, PDZD3, PDZ domain containing 3
ZNF44	ENSP00000348419	ZNF, ZNF44, Kox7, ZNF-44
AMPH	ENSP00000348602	amphiphysin, 4 atm, AMPH1, AMPH-1
ITGAL	ENSP00000349252	LFA-1, CD11a, LF-A1, integrin alpha-subunits, ITGAL, integrin alpha subunits, LFA1, integrin alpha L, Itgal-003, CD11-a, integrin alpha-L, integrin subunit alpha L, integrin alphaL
SERTAD1	ENSP00000350633	TRIP-Br1, SEI-1, SERTAD1, SERTA domain containing 1, SEI1, SERTA domain-containing protein 1
CTSE	ENSP00000350911	cathepsin S, CTSE, cathepsin E, cathepsins, CatE, cathepsin-S, cathepsin-E
PTPN22	ENSP00000352833	Lyp, PTPN22, Lyp2, pep, Lyp1, tyrosine-protein phosphatase non-receptor type 22, lymphoid phosphatase, PTPN 22, LyP-1, protein tyrosine phosphatase, non-receptor type 22, protein tyrosine phosphatase, non-receptor type 22 (lymphoid, PTPN22.6, PTPN2 2, protein tyrosine phosphatase, nonreceptor type 22, PTPN-22

MYLK	ENSP00000353452	MYLK, MLCK, MLCK 1, KRP, myosin light chain kinase, kinase-related protein, smooth muscle myosin light chain kinase, kinase related protein, telokin, mylk1, SM MLCK, smMLCK, myosin light-chain kinase, SM-MLCK, Smooth muscle myosin light-chain kinase, MLCK210, MLCK1
TOP1	ENSP00000354522	topoisomerase I, TOP1, DNA topoisomerase I, topoisomerase-I, Top-1, DNA-topoisomerase I, DNA topoisomerase-1, topoisomerase I, DNA topoisomerase 1, Top 1, Topoisomerase (DNA) I, DNA-Topoisomerase 1
CXCL9	ENSP00000354901	Mig, CXCL9, CMK, HuMig, SCYB9, chemokine ligand 9, monokine induced by gamma-interferon, monokine induced by interferon-gamma, monokine induced by interferon gamma, monokine induced by gamma interferon, CXCL-9, MI-G, CXC L9, M IG, chemokine (C-X-C motif) ligand 9, C-X-C motif chemokine 9, chemokine (C-X-C motif) ligand-9, C-X-C motif chemokine ligand 9
POU3F3	ENSP00000355001	Brn-1, POU3F3, Otf-8, Brn1, Brain-1, Brain1
IL20	ENSP00000356065	IL-20, IL20, Interleukin 20, interleukin-20
SYNE1	ENSP00000356224	Syne-1, cpg2, SYNE1, nesprin-1, Nesprin 1, synaptic nuclear envelope protein 1, spectrin repeat-containing nuclear envelope protein 1, Enaptin, spectrin repeat containing, nuclear envelope 1, CpG_2, CpG-2, synaptic nuclear envelope protein-1
CRTC2	ENSP00000357622	CRTC2, CREB regulated transcription coactivator 2, CREB-regulated transcription co-activator 2, CREB-regulated transcription coactivator 2
FLG	ENSP00000357789	filaggrin, FLG
S100A10	ENSP00000357801	p11, Hp 1-1, CLP11, S100A10, Hp1-1, p 11, p10, calpactin I light chain, Cal1l, P1-1, S-100A10, protein S100-A10, S100-A10, HP10, P10 Protein, GP11, protein S100A10
TCF7L2	ENSP00000358404	Tcf4, Tcf-4, TCF7L2, hTcf-4, transcription factor 7-like 2, transcription factor-7-like 2, FJ010174, hTCF4, transcription factor 7-like2, transcription factor 7 like-2, transcription factor 7-like 2 (T-cell specific, HMG-box, transcription factor 7 like 2, transcription factor 7-like 2 (T cell specific, HMG-box, HMG box transcription factor 4, T cell-specific transcription factor 4, transcription factor 7-like 2, transcription factor 7-like-2, TCF/LEF transcription factor family, transcription factor-7 like 2, Transcription Factor-7 like-2, transcription factor-7-like-2

PHGDH	ENSP00000358417	3-PGDH, NLS, PHGDH, PGDH, phosphoglycerate dehydrogenase, NLS-1, NLS1, d-3-phosphoglycerate dehydrogenase, Malate dehydrogenase
DUSP5	ENSP00000358596	Dusp-5, hVH-3, DUSP, VH3, VH 3, DUSP5, dual specificity phosphatase 5, dual specificity phosphatase-5, dual-specificity phosphatase 5, DUSP 5, dual-specificity protein phosphatase-5, Dual-Specificity Protein Phosphatase 5
NFKB2	ENSP00000358983	p100, p52, NFKB2, lyt-10, p105, Nuclear factor kappa-B subunit 2, Lyt10, p49/p100, oncogene lyt-10, P5-2, H2TF-1, NF-kB2, NFKB-2
L1CAM	ENSP00000359077	L1CAM, L1 CAM, neural cell adhesion molecule L1, Hs10, CAM-L1, L1 cell adhesion molecule, MIC5, CAM L1, CamL1, L1-CAM, Spg1p, neural cell-adhesion molecule L1, L1-cell adhesion molecule, CD 171, CD171, HS-10, hL1CAM, S10-P, NCAM-L1, L1 cell-adhesion molecule
BTRC	ENSP00000359206	1p22, beta-TrCP, beta-Trcp1, betaTrcp1, BTRC, betaTRCP, 1----p22, beta TrCP, E3RSIkappaB, plkappaBalpha-E3 receptor subunit, FBW1a, Fbxw1, beta TrCP1, 1 p22, FWD1, beta-transducin repeat containing E3 ubiquitin protein ligase, F-box/WD repeat-containing protein 1A, B-TrCP, beta-transducin repeat-containing E3 ubiquitin protein ligase
CMPK1	ENSP00000360939	UMP-CMP kinase, UMP/CMP kinase, nucleoside diphosphate kinase, CMK, UMP-CMPK, UMPK, cytidylate kinase, nucleoside-diphosphate kinase, UCK, UMP/CMP-kinase, CMPK1, Ndk, CMPK, Cytidine monophosphate kinase, cytidine/uridine monophosphate kinase 1
RALGDS	ENSP00000361120	Ral guanine nucleotide dissociation stimulator, RalGDS, RalGEF, Ral-GDS, Ral GEF, RGF, Ral guanine nucleotide exchange factor, Ral GDS
PTCH2	ENSP00000361266	patched2, PTCH2, ptc2, patched 2, Patched-2, PTC-2
CTSA	ENSP00000361562	PPCA, cathepsin S, cathepsins, cathepsin A, deamidase, PPGB, protective protein for beta-galactosidase, lysosomal protective protein, carboxypeptidase-L, protective protein cathepsin A, cathepsin-S, C-TSA, carboxypeptidase L
STK4	ENSP00000361892	Mst1, STK4, Krs-2, MST-1, serine/threonine kinase-4, mammalian sterile 20-like 1, serine/threonine-protein kinase 4, mamma-lian STE20-like protein kinase 1, serine/threonine kinase 4, Mammalian ste20-like protein kinase 1

STXBP1	ENSP00000362399	Munc18-1, UNC-18, p67, syntaxin binding protein 1, STXBP1, n-Sec1, Munc-18-1, Unc18, nSec1, rbSec1, syntaxin-binding protein 1, syntaxin-binding protein 1
GSN	ENSP00000362924	gelsolin, Actin-depolymerizing factor, brevin, GSN, actin depolymerizing factor, AGel, 2F-H1, Gel-solin, Ad-F
TNFSF15	ENSP00000363157	TL1A, TNFSF15, TL1, tumor necrosis factor superfamily, tumor-necrosis factor superfamily, tumor necrosis factor superfamily, member 15, vascular endothelial cell growth inhibitor, VEGI, tumor necrosis factor super-family, Tumor necrosis factor (ligand) superfamily, member 15, tumor necrosis factor-superfamily, TNF superfamily member 15, tumor necrosis factor ligand superfamily member 15, TNF super-family member 15, tumor necrosis factor super family
TRIM63	ENSP00000363390	striated muscle RING zinc finger protein, MuRF1, MURF-1, MURF-2, MuRF2, muscle specific ring finger protein 1, Muscle-specific RING finger protein 1, TRIM 63, muscle-specific RING-finger protein 1, muscle-specific RING-finger protein-1, TRIM63, E3 ubiquitin-protein ligase TRIM-63
TXN	ENSP00000363641	thioredoxin, TRX, Trx1, Htrx1, Txn, TRX-1, ATL-derived factor, Trx 1, hTrx-1, TRDX, 1 TRs
EDA	ENSP00000363680	EDA-A1, ED-A, EDA-A2, tumor necrosis factor superfamily, ectodysplasin A, HectD1, Ectodysplasin-A, eda, ED1-A1, EDA1, ED1-A2, EDA2, tumor-necrosis factor superfamily, hED, Eda A1, tumor necrosis factor super-family, tumor necrosis factor-superfamily, EDA-1, E-D-A, tumor necrosis factor super family
MAP1LC3A	ENSP00000363970	Lc3, MAP1LC3A, LC 3, LC-3, autophagy-related protein LC3 A, LC3A, microtubule-associated protein 1 light chain 3A, MAP1-LC3A, autophagy-related protein LC3A, microtubule-associated proteins 1A/1B light chain 3A, LC 3A, microtubule-associated protein 1 light chain 3 alpha
XPA	ENSP00000364270	XPA, XPAC, xeroderma pigmentosum group A complementing protein, Xeroderma Pigmentosum Complementation Groups
PADI1	ENSP00000364620	PDI, PADI1, peptidylarginine deiminases, pad1, peptidylarginine deiminase type I, EC 3.5.3.15, pad-1, Pad1p, PADI 1, peptidyl arginine deiminases, Peptidylargininedeiminase 1, PDI1, PD-I

SDHB	ENSP00000364649	SDHB, sdh, Sdh1p, Sdh2p, sdh B, SDH1, SDH2, pGL4, PGL-4, SDH-IP, PGL 4, succinate dehydrogenase complex, subunit B, iron sulfur (lp, SD- HB, succinate dehydrogenase complex iron sulfur subunit B, succinate dehydrogenase complex iron-sulfur subunit B, SDH-B
TNFRSF1B	ENSP00000365435	tumor necrosis factor receptor 2, TNFRSF1B, p75, TNFR2, TNF-R2, Tnfr2, TNF-RII, TNFR-II, Tnfr-2, TNF-R75, TBPII, CD120b, TNF receptor superfamily member 1B, HP75, TNFR II, TNFRII, TNFR80, p75 TNFR, TNF-RSF1B, tumor necrosis factor-receptor 2, p75TNFR, tumor necrosis factor receptor type II, TNF-R-II, p75 TNF-R, tumor necrosis factor receptor-2, TNF R75, HP-75, TNF RII, TNF R2, TNFR1BP, tumor necrosis factor receptor superfamily, member 1B, TNFR1B, tumor necrosis factor receptor superfamily member 1B, tumor necrosis factor-receptor superfamily member 1B, TNFR75, TNFR-75
KLK6	ENSP00000366047	KLK7, neurosin, kallikreins, protease m, KLK6, Zyme, kallikrein-6, kallikrein 6, hK6, Bssp, KLK 7, kallikrein-related peptidase 6, Kallikrein-related peptidase-6, kallikrein related peptidase 6
MOG	ENSP00000366095	myelin oligodendrocyte glycoprotein, MOG, myelin-oligodendrocyte-glycoprotein, myelin-oligodendrocyte glycoprotein
THBD	ENSP00000366307	Thrombomodulin, Thbd, BDCA3, BDCA-3, CD141, 5 to -3
CTNNBIP1	ENSP00000366474	inhibitor of beta-catenin and Tcf-4, beta-catenin-interacting protein ICAT, inhibitor of beta-catenin and TCF4, CTNNBIP1, catenin beta interacting protein 1, catenin, beta interacting protein 1
TBC1D4	ENSP00000366863	KIAA0603, AS160, Akt substrate of 160 kDa, TBC1D4, TBC1 domain family member 4, TBC1 domain family, member 4
PRKCZ	ENSP00000367830	PKCzeta, PKC zeta, PKC-zeta, Prkcz, protein kinase C-zeta, protein kinase Czeta, protein kinase C zeta, PKCz
XDH	ENSP00000368727	XDH, XOR, xanthine dehydrogenase/oxidase, XAN1
IL2RA	ENSP00000369293	p55, CD25, IL2RA, IL-2R, IL2R, IL-2RA, Tac antigen, IL-2-R, Tac-antigen, IL-2 R, p 55, hCD25, IL 2R, Interleukin-2 receptor subunit alpha, IL 2-R, HP55, IL2-RA, CD-25, CD 25
TMSB4X	ENSP00000370010	thymosin beta4, thymosin-beta 4, thymosin beta 4, Ptmb4, thymosin beta-4, thymosin-beta4, TMSB4X, TMSB4, thymosin-beta-4, thymosin beta 4, X-linked
PDE4A	ENSP00000370078	PDE4A, PDE4, PDE-46, DPDE2, pde46, PDE 4, Phosphodiesterase-4A, PDE4 A, PDE-4, phosphodiesterase 4A, PDE-4A

AKR1C2	ENSP00000370129	AKR1C2, dihydrodiol dehydrogenase/bile acid-binding protein, DD/BABP, aldo-keto reductases, MCDR2, aldo-keto reductase family 1, member C2, HAKRd, 3 alpha-HSD3, aldoketoreductases, DDH2, Dd2, 3alpha-HSD3, aldoketo reductases, dihydrodiol dehydrogenase 2
TP53BP1	ENSP00000371475	53BP1, TP53BP1, p202, P53BP1, TP53-binding protein 1, tumor protein p53 binding protein 1, 53-BP1, 53BP-1
VLDLR	ENSP00000371532	VLDLR, very low-density lipoprotein receptor, CAMRQ1, very low density lipoprotein receptor, VLDL-R, very-low-density lipoprotein receptor, very-low-density-lipoprotein receptor, CARMQ1, VLDLR-CH, very-low-density lipoprotein-receptor, very-low density lipoprotein receptor
FECH	ENSP00000372326	EC 4.99.1.1, FECH, ferrochelataase, heme synthase, protoheme ferrolyase
STAG1	ENSP00000372689	SA-1, stromal antigen 1, SA1, STAG1, HSA 1, Stromal Antigen-1
GPX3	ENSP00000373477	glutathione peroxidase 3, GSHPx-P, selenoprotein S, plasma glutathione peroxidase, EC 1.11.1.9, Gpx3, Extracellular glutathione peroxidase, glutathione peroxidase-3, GPx-3, selenoprotein-S
GARS1	ENSP00000373918	GlyRs, glycyl tRNA synthetase, Smad1, glycyl-tRNA synthetase, GARS, Smad-1, hsMAD1, SMAD 1, GA rs, 2 PMF, glycyl tRNA-synthetase
AFDN	ENSP00000375960	AF6, AF-6, afadin, MLL-AF6, MLLT4, AFDN, I-afadin
RNF34	ENSP00000376258	RNF34, hRFI, CARP-1, Human Ring-Finger homologous to Inhibitor of apoptosis protein, CARP1, CARP- 1, ring finger protein 34
PIAS3	ENSP00000376765	PIAS3, protein inhibitor of activated STAT3, protein inhibitor of activated Stat 3
NME1-NME2	ENSP00000376889	NM23-LV, nucleoside diphosphate kinase B, nm23-H2, PuF, NME2, nucleoside diphosphate kinase, NDPK-B, nucleoside-diphosphate kinase, c-myc purine-binding transcription factor PuF, NDK, NDK-B, NDPK B, NM23b, nm-23H2, NDPKB, NM23-B, NME1-NME2, NME/NM23 nucleoside diphosphate kinase 2, nucleoside diphosphate kinase-B, NDKB, Nm23H2, nm23 H2, NME 2, nm 23-H2
GAP43	ENSP00000377372	neuromodulin, GAP43, growth-associated protein-43, growth-associated protein 43, protein F1, GAP 43, growth associated protein 43, growth associated protein-43, p-p46, Gap-43

CFI	ENSP00000378130	I factor, complement factor I, C3b inactivator, I-factor, C3b-INA, CF I, C3b-inactivator, Cfi, C3b/C4b inactivator
CCL26	ENSP00000378365	TSC1, eotaxin-3, CCL26, SCYA26, small inducible cytokine subfamily A, member 26, Eotaxin3, TSC-1, TSC 1, CCL-26, TS-C1, TS- C1, eotaxin 3, chemokine (C-C motif) ligand 26, chemokine ligand 26, C-C motif chemokine ligand 26
CLDN3	ENSP00000378577	claudin-3, C7orf1, claudin 3, CLDN3, RVP1, CPETR2, CLDN-3, CLDN 3, claudin3
MPRIP	ENSP00000379156	RIP3, p116Rip, M-RIP, Myosin phosphatase-Rho interacting protein, KIAA 0864, MPRIP, RIP 3, MRIP
ITGB1	ENSP00000379350	integrin beta1, CD29, integrin beta subunits, integrin beta 1, FNRB, cd 29, GPIIa, integrin-beta1, VLA beta, VLA-beta, integrin beta-1, ITGB1, integrinbeta1, ITGB1P, integrin-subunit beta-1, integrin subunit beta 1, integrin-beta 1
THRB	ENSP00000379904	thyroid hormone receptor beta, Thrb, GRTH, c-erbA beta, ERBA beta, ERBA2, c-erbA-beta, thyroid hormone receptor-beta, c-erbA2, thyroid hormone receptor-beta 1, thyroid hormone receptor B, oncogene ERBA2, thyroid hormone receptor beta1, thyroid hormone receptor beta-1, thyroid hormone receptor, beta, thyroid hormone receptor beta 1, ErbA-beta, Thrb1, Thrb2, NR1A2, avian erythroblastic leukemia viral oncogene homolog 2, Generalized Resistance to Thyroid Hormone
KHSRP	ENSP00000381216	KHSRP, KSRP, p75, HP75, KH-type splicing-regulatory protein, KH-type splicing regulatory protein, FUSE-binding protein 2, HP-75, Far-upstream element-binding protein 2, FBP2, far upstream element-binding protein 2, KH type splicing regulatory protein, FUBP2
CST3	ENSP00000381448	cystatin C, CST 3, CST3, gamma-trace, gamma trace, cystatin-C, cystatinC
MRAP	ENSP00000382684	FGD2, Falp, MRAP, melanocortin 2 receptor accessory protein, melanocortin-2 receptor accessory protein, melanocortin- 2 receptor accessory protein, M-RAP
BCL6	ENSP00000384371	LAZ3, BCL6, BCL-6, BCL5, LAZ-3, B-cell CLL/lymphoma 6, ZNF51, B cell CLL/lymphoma 6, Bcl6a, B-cell lymphoma 6 protein, ZBTB27
RTL10	ENSP00000384924	Bop, BH3-only protein, BH3 only protein, BH-3 only protein

NLRC4	ENSP00000385090	CARD12, Ipaf, Nlrc4, NLR family, CARD domain containing 4, NOD-like receptor C4, NLR family CARD domain-containing protein 4, I PAF, NLR family, CARD-domain-containing 4, ICE protease-activating factor, NLR family CARD domain containing 4, NLR family CARD domain-containing 4, NLR family CARD domain containing protein 4
NOLC1	ENSP00000385410	Nopp140, hNopp140, p130, nucleolar phosphoprotein p130, NOLC1, nucleolar and coiled-body phosphoprotein 1, NS5ATP13, Nopp-140
TNFSF18	ENSP00000385470	hGITRL, tumor-necrosis factor superfamily, AITRL, tumor necrosis factor superfamily, tumor necrosis factor super-family, GITRL, tumor necrosis factor-superfamily, GITR-L, TNFSF18, tumor necrosis factor super family
ARHGAP35	ENSP00000385720	GRF1, p190-A, p190 RhoGAP, p190RhoGAP, GRF-1, p190-RhoGAP, GRLF1, ArhGAP35, p190A RhoGAP, p190-A RhoGAP, Rho GTPase-activating protein 35, Glucocorticoid receptor DNA binding factor 1, p190A
ITGA6	ENSP00000386896	CD49f, ITGA6, integrin alpha-subunits, integrin alpha subunits, integrin alpha 6, Integrin alpha6, integrin-alpha-6, ITGA6p, integrin subunit alpha 6
TBXAS1	ENSP00000389414	TBXAS1, TXAS, thromboxane A synthase, TXS, thromboxane A synthase 1, CYP5A1, thromboxane-A-synthase
CYLD	ENSP00000392025	CYLD, deubiquitinating enzyme CYLD, cylindromatosis, cyld1, MFT, Mft1, cylindromatosis (turban tumor syndrome, CYLDI, MF T, MFT-1, CYLD lysine 63 deubiquitinase
TMEM182	ENSP00000394178	TMEM182
PDZK1	ENSP00000394485	PDZK1, CAP70, CLAMP, PDZ domain containing 1, NHERF3, PDZ domain-containing 1
MAPKAPK3	ENSP00000396467	MAPKAPK3, 3pK, MK3, chromosome 3p kinase, MAPKAP-K3, MK 3, mitogen-activated protein kinase-activated protein kinase 3, MAPKAPK 3, 3 she, 3 PK
ENDOU	ENSP00000397679	p11, PP11, p 11, placental protein 11, EndoU, Hp 1-1, Hp1-1, P1-1
PRF1	ENSP00000398568	perforin, PRF1, perforin 1, cytolyisin, Pfp, perforin1, lymphocyte pore-forming protein, PFN1, P1P, FLH2, perforin-1, hPFN1, PFN-1
EXOSC6	ENSP00000398597	p11, p 11, Hp1-1, Hp 1-1, P1-1, MTR-3, EXOSC6

NCOA2	ENSP00000399968	2p15, 2-p15, GRIP-1, GRIP1, TIF2, 4-q13, 5 due, NCOA2, SRC-2, transcriptional intermediary factor 2, hTIF2, 5 TMS, SRC2, 2----p15, 4q 13, TIF-2, transcriptional intermediary factor-2, 5-E15, nuclear receptor co-activator 2, nuclear receptor coactivator 2, 4-PPs, 5 T MR, 5TMS, 5-e19
WEE1	ENSP00000402084	Wee1, WEE1Hu, Wee1A, wee 1, Wee1 homolog, 2 in 6, Wee1-like protein kinase, WEE1 G2 checkpoint kinase
CPAMD8	ENSP00000402505	VIP, CPAMD8, C3 and PZP-like alpha-2-macroglobulin domain-containing protein 8, CPAMD8 p, K-CaP
CCNQ	ENSP00000402949	StAR, FAM58A, cyclin M, STA R
LTA	ENSP00000403495	lymphotoxin-alpha, TNFbeta, lymphotoxin alpha, TNF-beta, tumor-necrosis factor superfamily, tumor necrosis factor superfamily, TNF beta, TNFb, lymphotoxin A, Lta, tumor necrosis factor super-family, lymphotoxin-a, LT-A, tumor necrosis factor-superfamily, TNF-b, lymphotoxin- alpha, TNFSF1, 1 TNR, tumor necrosis factor super family
TRPV4	ENSP00000406191	VR-OAC, OTRPC4, TRPV4, vanilloid receptor-related osmotically activated channel, transient receptor potential cation channel, subfamily V, member 4, Trp12, VRL-2, transient receptor potential cation channel subfamily V member 4, TRPV-4, TRPV4 p
LAMP2	ENSP00000408411	LAMP2, LAMP-2, lysosomal-associated membrane protein 2, h-lamp-2, lgp110, Lamp 2, lysosome-associated membrane glycoprotein 2, Lysosomal-Associated Membrane Protein-2, lysosomal associated membrane protein 2, lysosome associated membrane glycoprotein 2, LAMP2 p
IFNL3	ENSP00000409000	IL-28B, interleukin 28B, IFNL3, IL28B, IFNLambda3, interferon-lambda-3, IFN-lambda-3, IFN-lambda3, interleukin-28B, interferon lambda 3, interleukin28B, IFN lambda 3, interleukin 28-B, IL28-B, interferon lambda-3, IFN-lambda 4, IFN lambda 4, interferon-lambda 3, interferon-lambda3, IFN-lambda 3, IL 28B, Interleukin-28B, IFN-Lambda4, interleukin-28 B, IL 28-B, interferon, lambda 3
LTB	ENSP00000410481	p33, TNFc, Lymphotoxin beta, lymphotoxin B, lymphotoxin-beta, tumor necrosis factor superfamily, tumor-necrosis factor superfamily, TNF-c, Ltb, tumor necrosis factor super-family, tumor necrosis factor-superfamily, TNFSF3, TNF c, tumor necrosis factor super family
RAB3GAP1	ENSP00000411418	p130, Rab3 GAP, RAB3GAP, RAB3GAP1, Rab3-GAP, Rab3 GTPase-activating protein catalytic subunit

MST1	ENSP00000414287	MST1, Hgfl, DNF15S2, macrophage-stimulating 1, macrophage stimulating protein, hepatocyte growth factor-like protein, D3F15S2, macrophage-stimulating protein, MST-1, macrophage stimulating-1, DNF 15S2, macrophage stimulating 1, hepatocyte-growth-factor-like, hepatocyte growth factor-like
CTSO	ENSP00000414904	cathepsin S, cathepsins, Cathepsin O, CTSO, cathepsin-S
SERPINA1	ENSP00000416066	alpha1 antitrypsin, alpha1-antitrypsin, alpha 1-antitrypsin, alpha 1 AT, alpha 1AT, Serpina1, A1AT, alpha-1-antitrypsin, alpha 1-AT, alpha1-AT, alpha 1 antitrypsin, alpha-1-protease inhibitor, alpha 1-protease inhibitor, HPI1, Aat, alpha-1-AT, alpha1-protease inhibitor, alpha1AT, alpha 1-anti-trypsin, alpha-1 antitrypsin, alpha 1-antiproteinase, alpha-1-anti-trypsin, alpha 1- antitrypsin, alpha1-anti-trypsin, alpha-1 protease inhibitor, alpha1 -antitrypsin, a1-AT, A1a, alpha1antitrypsin, alpha1-antiproteinase, serpin A1, Alpha-1 anti-trypsin, SERPINA 1, Alpha1 protease inhibitor, serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1, alpha-1- antitrypsin, HPI-1, alpha1 antiproteinase, Alpha 1 anti-trypsin, SERPINA-1, alpha-1-antiproteinase, serpin family A member 1, alpha-1antitrypsin, a1-A
BAP1	ENSP00000417132	BAP1, BRCA1 associated protein-1, ubiquitin C-terminal hydrolases, ubiquitin carboxy-terminal hydrolase, BRCA1-associated protein 1, BRCA1-associated protein-1, UCH, BAP-1, BRCA-1 associated protein-1, BRCA-1 associated protein 1, BRCA1 associated protein 1, BRCA-1-associated protein 1, BRCA1 associated protein1, HBAP1, BRCA1 associated-protein 1
MME	ENSP00000418525	CD10, neprilysin, NEP, neutral endopeptidase 24.11, MME, Neutral endopeptidase, atriopetidase, EC 3.4.24.11, enkephalinase, membrane metalloendopeptidase, neutral-endopeptidase, Common acute lymphocytic leukemia antigen, CD 10, membrane metallo-endopeptidase, CD-10, membrane-metalloendopeptidase
SMYD3	ENSP00000419184	SMYD3, SET and MYND domain containing protein 3, SET and MYND domain-containing protein 3, SET and MYND domain containing 3, 5 CCM, SET and MYND domain-containing 3, SET and MYND domain containing-3, 5EX0

GC	ENSP00000421725	Gc-globulin, vitamin-D-binding protein, group-specific component, vitamin D-binding protein, hDBP, group specific component, GROUP-SPECIFIC COMPONENT, vitamin D binding protein, Dbp, Gc globulin, DBP/GC, VDBP, group-specific component (vitamin D-binding protein, GcMAF, vitamin D binding-protein, GC, vitamin D-binding protein, vitamin-D binding protein, Gc-MAF, Vitamin Dbinding protein, 1 lot, Gc, vitamin D binding protein
ESRRB	ENSP00000422488	ERRbeta, ESRRB, ERR-beta, estrogen-related receptor beta, ERR2, ERR beta, ERRB2, NR3B2, estrogen-related receptor-beta, estrogen related receptor beta, ERRB
SMAD1	ENSP00000426568	Smad1, SMAD family, MADR1, Smad-1, bsp-1, MADH1, hsMAD1, mothers against decapentaplegic homolog 1, SMAD 1, SMAD family member 1
FBXO32	ENSP00000428205	MAFbx, atrogin-1, FBXO32, atrogin 1, atrogin1, F-box protein 32, Fbx32, F-box only protein 32, F-box protein-32, muscle atrophy F-box protein
IKBKB	ENSP00000430684	IkappaB kinase 2, IKKbeta, IKK2, IKK-beta, IKBKB, IKK beta, IKK-2, IKK-b, I kappa B kinase-2, IkappaB kinase-2, IkkB, Inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta, inhibitor of nuclear factor kappa-B kinase subunit beta, inhibitor of nuclear factor kappa B kinase subunit beta
IL32	ENSP00000432218	IL-32, NK4, Interleukin-32, IL32, IL-32alpha, IL-32gamma, IL-32 beta, interleukin 32, IL-32 gamma
CFL1	ENSP00000432660	Cofilin, Cofilin-1, Cfl1, cofilin 1, 18 kDa phosphoprotein, cofilin1, CFL-1
SLN	ENSP00000435380	sarcolipin, S-Ln, Sln
ATP2A2	ENSP00000440045	ATP2A2, SERCA2, dAR, SERCA-2, sarcoplasmic/endoplasmic reticulum calcium ATPase 2, sarcoplasmic/endoplasmic reticulum calcium-ATPase 2, ATPase, Ca++ transporting, cardiac muscle, slow twitch 2, ATP2A2 p, ATPase sarcoplasmic/endoplasmic reticulum Ca2+ transporting 2, SERCA 2
ARSL	ENSP00000441417	ARSE, arylsulfatase E, ase, CDPX1
CTSV	ENSP00000445052	cathepsin V, cathepsins, cathepsin S, cathepsin L2, CTSL2, CTSV, cathepsin-S, cathepsin L-2
VIM	ENSP00000446007	VIM

HNRNPC	ENSP00000451291	hnRNP, HC1, hnRNP, HC2, heterogeneous nuclear ribonucleoprotein C, hnRNP C, c2p, HC 2, heterogeneous nuclear ribonucleoproteins C1/C2, heterogeneous nuclear ribonucleoprotein C (C1/C2, HC-2, HC -2, SNRPC
XRCC3	ENSP00000451974	XRCC3, CMM6, RAD51-like, XRCC 3, X-ray repair complementing defective repair in Chinese hamster cells 3, X-ray repair cross-complementing protein 3, DNA repair protein XRCC3, X-ray repair cross complementing protein 3, X-ray repair cross complementing 3
ZEB2	ENSP00000454157	SIP1, ZFH1B, SMADIP1, ZEB2, Smad-interacting protein 1, Smad interacting protein-1, zinc finger homeobox 1B, Smad-interacting protein-1, ZEB-2, Smad interacting protein 1, hZeb2, Sip1p, Smad-interacting-protein-1, SIP-1, zinc finger E-box-binding homeobox2, Zinc finger E-box-binding homeobox 2, zinc finger homeo box 1 B, ZFH1 B, SIP 1, zinc finger E-box binding homeobox 2, zinc-finger E-box binding homeobox 2, zinc finger E box-binding homeobox 2, ZFX1B, ZEB 2, AC009951, Zinc finger E-box-binding homeobox-2, Zinc Finger E-Box Binding Homeobox-2, zinc-finger E-box-binding homeobox 2
MRC1	ENSP00000455897	macrophage mannose receptor, hMR, CD206, Mrc1, human mannose receptor, mannose receptor C type 1, MRC-1, mmr, CD 206, hCD206, macrophage-mannose receptor
MAP2K6	ENSP00000468348	MKK6, MAPKK6, SKK3, MEK6, MKK-6, mitogen-activated protein kinase kinase 6, MAP2K6, MEK-6
GFAP	ENSP00000468500	GFAP, intermediate filament protein, intermediate-filament protein
TNFSF14	ENSP00000469049	TR2, HTR2, HVEM-L, tumor-necrosis factor superfamily, TNFSF-14, Htr-2, tumor necrosis factor superfamily, Herpesvirus entry mediator ligand, TNFSF14, tumor necrosis factor super-family, TNFSF 14, tumor necrosis factor-superfamily, CD258, TNF superfamily member 14, tumor necrosis factor super family
SLC37A4	ENSP00000476176	GSD-1b, glucose 6-phosphate translocase, GSD 1b, G6PT, glucose-6-phosphate translocase, G6PT1, GSD-1c, GSD1b, SLC37A4, GSD 1c, glucose- 6-phosphate translocase, hG6PT

CCL3	ENSP00000477908	SCYA3, MIP-1alpha, macrophage inflammatory protein-1alpha, MIP-1 alpha, MIP1 alpha, CCL3, GOS19-1, macrophage inflammatory protein 1 alpha, MIP-1a, LD78 alpha, macrophage inflammatory protein-1 alpha, LD78alpha, macrophage inflammatory protein 1alpha, MIP 1 alpha, MIP1alpha, macrophage-inflammatory protein-1 alpha, MIP1-alpha, MIP-1alpha, macrophage-inflammatory protein-1alpha, Macrophage inflammatory protein-1-alpha, Macrophage inflammatory protein 1-alpha, CCL-3, MIP1a, MIP 1-alpha, macrophage-inflammatory protein 1alpha, macrophage-inflammatory protein 1 alpha, hCCL3, chemokine (C-C motif) ligand 3, chemokine ligand 3, C-C motif chemokine ligand 3, macrophage inflammatory protein 1- alpha, CC L3
NLRP1	ENSP00000478516	DEFCAP, NALP1, NLRP1, CARD7, SLEV1, 3-KAT, NLR family pyrin domain-containing 1, NLRP-1, NLR family, pyrin domain containing 1, NLR Family Pyrin Domain Containing 1, MSPc, 3 KAT
CCL14	ENSP00000479097	CC3, Hcc-1, Scyl2, HCC1, NCC-2, SY14, CCL14, chemokine ligand 14, CC-motif chemokine, HCC3, C C3, C-C-motif chemokine, C-C motif chemokine, HCC-3
EPHX1	ENSP00000480004	mEH, microsomal epoxide hydrolase, EPHX1, EPHX, epoxide hydrolase 1, epoxide hydratase, HYL1, epoxide hydrolase-1
FGF1	ENSP00000480791	aFGF, acidic fibroblast growth factor, fibroblast growth factor-1, FGF1, FGF-1, HBGF-1, ECGF, FGFA, Fibroblast growth factor 1, endothelial cell growth factor, ECGFB, heparin binding growth factor-1, heparin-binding growth factor 1, FGF 1, 2 HWA, fibroblast growth factor -1, a-FGF, FGF-alpha, fibroblast growth factor-1 (acidic
N	ENSP00000481127	PRODH, POX, proline oxidase, proline dehydrogenase, PRODH2, PIG-6, proline dehydrogenase (oxidase) 1, PRODH1, proline dehydrogenase 1
HNRNPDL	ENSP00000483254	heterogeneous nuclear ribonucleoprotein D-like, hnRNP, HNRPDL, laAUF1, JKTBP, HNRNPDL, heterogeneous nuclear ribonucleoprotein D like
GHR	ENSP00000483403	GHR, GHBP, growth hormone binding protein, growth hormone-binding protein, growth-hormone-binding protein, GH-BP, GH-R

LEPROT	ENSP00000483521	LEPR, OB-R gene-related protein, LEPROT, OB-RGRP, OB-R, leptin receptor overlapping transcript, leptin receptor gene-related protein, OBR, Lep-R, Endospanin1, Endospanin 1
BTK	ENSP00000483570	Btk, Bruton's tyrosine kinase, bpk, atk, bruton tyrosine kinase, Tec family tyrosine kinases, Bruton agammaglobulinemia tyrosine kinase, Xla, B-cell progenitor kinase, B cell progenitor kinase, 1B 55, IMD1, TEC-family tyrosine kinases, Bruton's tyrosine-kinase, tyrosine-protein kinase BTK
CCL4L2	ENSP00000483609	MIP-1beta, LAG1, HLA-G1, SCYA4L, MIP-1 beta, AT744.2, macrophage inflammatory protein-1beta, macrophage inflammatory protein 1 beta, Lag1p, LAG-1, SCYA4L2, SCYA4L1, MIP1-beta, macrophage inflammatory protein-1 beta, CCL4L1, MIP1beta, macrophage inflammatory protein 1beta, macrophage-inflammatory protein-1beta, macrophage inflammatory protein-1-beta, MIP1 beta, HLAG1, CCL4L, CCL4L2, HLAG-1
CYP51A1	ENSP00000003100	CYP51, lanosterol 14 alpha-demethylase, CYP51A1, Sterol 14alpha-demethylase, P45014DM, lanosterol 14-alpha-demethylase, lanosterol 14alpha-demethylase, sterol 14 alpha-demethylase, lanosterol 14-alpha demethylase, lanosterol-14-alpha-demethylase
CDH17	ENSP00000027335	cadherin, HPT-1, CDH16, Liver-Intestine Cadherin, liver intestine-cadherin, CDH17, Cadherin-17, CDH-17, cadherin 17, Liver-intestine-cadherin, HPT1, cadherin17
APOH	ENSP00000205948	apoH, apolipoprotein H (beta2-glycoprotein I, apolipoprotein H, apolipoprotein H (beta 2-glycoprotein I, APO H, beta 2-glycoprotein I, beta2-glycoprotein I, beta-2-glycoprotein I, beta 2-glycoprotein-I, B2G 1, beta 2-glycoprotein 1, beta2 glycoprotein I, Beta2 glycoprotein 1, B2G1, beta2-glycoprotein-I, beta-2-glycoprotein 1, beta-2-glycoprotein-I, beta 2 glycoprotein I, Beta-2-glycoprotein-1, Beta-2 Glycoprotein I, beta-2 glycoprotein-1, beta2glycoprotein I, b2GP1, beta-2glycoprotein-I, anticardiolipin cofactor
VCL	ENSP00000211998	vinculin, metavinculin, 4EHP, meta-vinculin, Vcl
MIF	ENSP00000215754	MIF, Macrophage migration inhibitory factor, GIF, macrophage migration-inhibitory factor, 4 OSF, 4 GRN, phenylpyruvate tautomerase, MMIF, macrophage-migration inhibitory factor, macrophage-migration-inhibitory factor, 5 h vs

PVALB	ENSP00000216200	parvalbumin, PVALB
CTSG	ENSP00000216336	cathepsins, cathepsin S, catG, cathepsin G, EC 3.4.21.20, CTSG, cathepsin-G, Cat G, CAT-G, cathepsin-S
CTSZ	ENSP00000217131	Cathepsin S, cathepsins, Cathepsin Z, CTSZ, cathepsin X, cathepsin-Z, CTSX, cathepsin-S, cathepsin B2
CTSH	ENSP00000220166	cathepsin S, CTSH, cathepsin H, Cathepsins, cathepsin-S, procathepsin H
SFRP1	ENSP00000220772	secreted Frizzled-related proteins, sFRP1, sFRP-1, Secreted Frizzled-related protein 1, FRP1, Secreted frizzled related protein 1, FRP, secreted Frizzled-related protein-1, SARP2, secreted frizzled related proteins, FRP-1, SFRP, SFRP 1, secreted apoptosis-related protein 2, secreted frizzled related protein-1, Secreted-frizzled related protein 1, Secreted-frizzled related proteins, SFRP1 - p, Secreted-Frizzled-Related-Protein 1, secreted-frizzled-related protein 1
RELB	ENSP00000221452	RelB, I-Rel, transcription factor RelB, Rel B, Rel-B, RELB Proto-Oncogene, NF-KB Subunit
RNASEH2A	ENSP00000221486	junB, AGS4, RNASEH2A, RNase H2A, Jun-B, RNase HI, jun b
RETN	ENSP00000221515	resistin, RSTN, RETN, FIZZ3, ADSF
CYP3A5	ENSP00000222982	CYP3A5, hPCN3, cytochrome p-450 3A5, EC 1.14.14.1, cytochrome P450HLP2, cytochrome P4503A5, cytochrome P450 3A5, CYP 3A5, cytochrome P450 family 3, cytochrome P450, family 3, subfamily A, polypeptide 5
TNFSF8	ENSP00000223795	CD153, CD30L, tumor necrosis factor superfamily, CD30 ligand, tumor-necrosis factor superfamily, CD30-L, TNFSF8, tumor necrosis factor super-family, TNF superfamily member 8, tumor necrosis factor-superfamily, tumor necrosis factor super family
CTSC	ENSP00000227266	cathepsin C, CTSC, cathepsins, DPPI, cathepsin S, dipeptidyl-peptidase I, dipeptidyl peptidase I, hMS, DPP1, DPP I, cathepsin-C, cathepsin-S, PAL-S
GORASP2	ENSP00000234160	p59, GRASP55, Golgi reassembly stacking protein of 55 kDa, HP59, GORASP2, GRS2
MFN2	ENSP00000235329	Mfn2, mitofusin 2, Mfn-2, CMT2A2, mitofusin-2, mitofusin2, MARF, MFN2 p, hMfn2, MFN 2
MMP8	ENSP00000236826	MMP8, neutrophil collagenase, Matrix metalloproteinase 8, CLG1, MMP-8, Matrix metalloproteinase-8, 1 mM B, matrixmetalloproteinase-8, matrix metalloproteinase -8, 3 dpf, Matrix metalloproteinase-8, matrix metal-loproteinase 8, 3 DPE, MMP -8

DUSP4	ENSP00000240100	DUSP4, mitogen-activated protein kinase phosphatase-2, Dual specificity phosphatase 4, MKP2, MAP kinase phosphatase-2, MKP-2, Dusp 4, mitogen-activated protein kinase phosphatase 2, dual-specificity phosphatase 4, dual specificity protein phosphatase 4, Dual-specificity protein phosphatase 4, Dual specificity phosphatase-4, MAP kinase phosphatase 2
SOX9	ENSP00000245479	Sox9, Sra-1, SR-A1, SRA1, CMD1, transcription factor Sox9, SRY (sex-determining region Y) box 9, CMPD1, Sox-9, transcription factor Sox-9, SRY (sex determining region Y)-box 9, SRY- (sex determining region Y-) box 9, SRY-box 9, SRY (sex-determining region Y)-box 9, h sox9, SRY-box-9, SRY box 9, SO X9
TNFSF9	ENSP00000245817	4-1BB ligand, 4-1BBL, tumor necrosis factor superfamily, tumor-necrosis factor superfamily, 4-1BB-L, 4-1 BB ligand, CD137L, TNFSF9, tumor necrosis factor super-family, tumor necrosis factor-superfamily, 41BBL, tumor necrosis factor super family
CD70	ENSP00000245903	CD70, tumor necrosis factor superfamily, CD70 molecule, CD27 ligand, tumor-necrosis factor superfamily, TNFSF7, tumor necrosis factor super-family, tumor necrosis factor-superfamily, CD27L, tumor necrosis factor super family
CANX	ENSP00000247461	CN X, p90, Calnexin, cnx, CANX, IP90
PYCARD	ENSP00000247470	TMS-1, TMS1, apoptosis-associated speck-like protein containing a CARD, Asc, Pycard, AS-C, AS c, target of methylation-induced silencing 1, apoptosis-associated specklike protein containing a CARD, target of methylation induced silencing 1, PYD and CARD domain containing, apoptosis-associated speck-like protein-containing a CARD, target of methylation-induced silencing-1, T MS, apoptosis associated speck-like protein containing a CARD, PY-CARD, PYD and CARD domain containing protein
PMPCB	ENSP00000249269	p52, MPP11, peptidase B, PMPCB, peptidase-B, MPP11p, P5-2

G6PC1	ENSP00000253801	GSD1a, G-6-Pase, GSD-1, G6PT, G6Pase, glucose-6-phosphatase, glucose-6 phosphatase, GSD 1a, glucose 6-phosphatase, glucose-6-phosphatase catalytic subunit, GSD-1a, GSD1, G6PC, G6PC1, EC 3.1.3.9, glucose-6-phosphatase-alpha, G6-Pase, hG6PT, glucose-6-phosphatase, catalytic, glucose-6-phosphatase, catalytic subunit, glucose-6- phosphatase, G6 Pase, glucose 6 phosphatase, hG6PC, hG6Pase, G-6Pase, glucose 6 phosphatase catalytic subunit
HNF1A	ENSP00000257555	HNF1, Tcf1, HNF-1alpha, HNF1A, HNF-1 alpha, HNF1alpha, hepatocyte nuclear factor-1alpha, HNF-1, LFB-1, TCF-1, LFB1, hepatocyte nuclear factor 1alpha, hepatocyte nuclear factor-1 alpha, hepatocyte nuclear factor 1 alpha, transcription factor 1, HNF1 alpha, LF-B1, transcription factor-1, liver-specific transcription factor LFB1, HNF 1alpha, hHNF1, HNF-1a, hepatocyte nuclear factor-1-alpha, HNF-1-alpha, hepatocyte nuclear factor 1-alpha, HNF 1A, HNF1 homeobox A, Transcription Factor1, HNF1A p, HNF1-A
HUS1	ENSP00000258774	HUS1, Hus1p, hHus1, hus-1, HUS1 checkpoint clamp component
SRSF1	ENSP00000258962	SF2, SRSF1, HSF2, AS-F, splicing factor 2, Serine/arginine-rich splicing factor 1, SRp30a, splicing factor-2, SFRS1, alternate splicing factor, SF-2, HSF-2, serine and arginine-rich splicing factor 1, splicing factor2, Serine and Arginine Rich Splicing Factor 1
GTF2H4	ENSP00000259895	TFIIH, p52, TFB2, 5 of 4, P5-2, GTF2H4, general transcription factor IIH, polypeptide 4, general transcription factor IIH subunit 4
BARD1	ENSP00000260947	BARD1, BRCA1-associated ring domain protein 1, BRCA1-associated RING domain 1, BRCA1-associated RING-domain 1, BRCA1-associated RING domain-1, hBARD1, BRCA1 associated RING domain protein 1, BRCA1 Associated RING Domain 1
GUCY2C	ENSP00000261170	StAR, STa receptor, GC-C, GUCY2C, Intestinal guanylate cyclase, heat stable enterotoxin receptor, EC 4.6.1.2, guanylyl cyclase C, guanylate cyclase 2C, heat-stable enterotoxin receptor, guanylyl cyclase-C, guanylylcyclase C, GUC2C, STA R
CCND2	ENSP00000261254	cyclin D2, cyclin-D2, CCND2, cyclinD2, CCND 2, CCND-2, G1/S-specific cyclin D2, G1/S-specific cyclin-D2

SLC6A4	ENSP00000261707	5-HTTLPR, 5-HTT, SLC6A4, 5HTT, htt, SERT, 5-hydroxytryptamine transporter, 5HTTLPR, 5-HT transporter, hSERT, 5-HT T, 5HTT-LPR, 5-HT-T, 5HT transporter, 5 HTT, 5-HTT LPR, 5-HTT-LPR, 5HTT LPR, 5HTTL-PR, 5- HTTLPR, solute carrier family 6 member 4, Ser-T, 5-hydroxy tryptamine transporter, solute carrier family 6, member 4, SLC 6A4, solute carrier family 6 (neurotransmitter transporter), member 4, solute carrier family-6 member-4, sodium-dependent serotonin transporter, 5-hydroxytryptamine-transporter
IL17B	ENSP00000261796	IL-17B, IL-20, IL20, Interleukin 20, interleukin-17B, interleukin-20, IL17B, interleukin 17B
CYP46A1	ENSP00000261835	CYP46, CYP46A1, cholesterol 24-hydroxylase, 3 MDR, 3-mdr, cytochrome P450 46A1, cholesterol-24-hydroxylase
ATF1	ENSP00000262053	ATF-1, ATF1, ATF 1, FUS/ATF-1, activating transcription factor 1, TREB36, EWS-ATF-1, Activating transcription factor-1, EWS-ATF1, FUS/ATF1
RBL2	ENSP00000262133	p130, Rbl2, PRB2, Rb2, retinoblastoma-like 2, retinoblastoma-like protein 2, pRb 2
CD33	ENSP00000262262	CD33, siglec-3, p67, hCD33, CD33 molecule, CD33 antigen, hP67, CD 33, hP 67
RPE65	ENSP00000262340	p63, RPE65, mRPE65, sRPE65, hRPE65, retinal pigment epithelium-specific 65-kDa protein, rd12, retinal pigment epithelium-specific protein 65kDa, Retinal pigment epithelium-specific protein 65 kDa, retinal pigment epithelium-specific 65 kDa protein, retinoid isomerohydrolase
FOXF1	ENSP00000262426	Foxf1, freac-1, FKHL5, Forkhead Box f1, Forkhead box protein F1, Forkhead Box-F1
TEP1	ENSP00000262715	TP1, TEP1, TLP1, telomerase protein component 1, telomerase-associated protein 1, tlp-1, TP-1, hTEP1, TEP-1, telomerase-associated protein-1, telomerase associated protein 1, p240, TP 1, telomerase associated protein1, hTP1, telomerase associated protein-1, HTP-1, hTLP1
ELL	ENSP00000262809	ELL, eleven-nineteen lysine-rich leukemia gene, eleven nineteen lysine-rich leukemia gene, RNA polymerase II elongation factor ELL, eleven-nineteen lysine-rich leukemia protein, ell-1, elongation factor for RNA polymerase II
MAP2K2	ENSP00000262948	MAP2K2, MEK-2, MEK2, MEK2 p, MKK2, mitogen-activated protein kinase kinase 2, Mek 2, MAPK/ERK Kinase 2, MAPKK2

TCF3	ENSP00000262965	E2A, TCF-3, Tcf3, p75, VDIR, transcription factor 3, transcription factor-3, ITF-1, HP75, HP-75, transcription-factor3, immunoglobulin enhancer-binding factor E12/E47, trans-cription factor 3, E2A immunoglobulin enhancer-binding factor E12/E47, transcription factor E2-alpha
UCP1	ENSP00000262999	uncoupling protein-1, UCP1, uncoupling protein 1, UCP-1, Ucp, thermogenin, hUCP1, uncoupling-protein-1, UCP 1, uncoupling protein1, mitochondrial brown fat uncoupling protein 1
TUBB4A	ENSP00000264071	beta5, beta 5, DYT4, TUBB4A, TUBB5, TUBB4
MTRR	ENSP00000264668	MSR, MTRR, methionine synthase reductase, cblE, 5-methyltetrahydrofolate-homocysteine methyltransferase reductase, methionine-synthase reductase, 2 QTL
PPARGC1A	ENSP00000264867	PPARGC1, PGC-1, PGC-1alpha, peroxisome proliferator-activated receptor-gamma coactivator-1 alpha, PPARGgamma coactivator 1alpha, PPARGC1A, peroxisome proliferator-activated receptor-gamma coactivator-1alpha, peroxisome proliferator-activated receptor gamma coactivator-1alpha, PGC1, PGC-1 alpha, PPAR-gamma coactivator 1alpha, peroxisome proliferator-activated receptor gamma coactivator 1alpha, PPAR gamma coactivator 1alpha, Peroxisome proliferator-activated receptor-gamma coactivator 1alpha, 5-two, Pgc1alpha, peroxisome proliferator-activated receptor gamma, coactivator 1 alpha, PPAR gamma coactivator-1 alpha, peroxisome-proliferator-activated receptor-gamma coactivator-1alpha, Pgc1a, PPAR gamma coactivator 1-alpha, PGC1-alpha, peroxisome proliferator-activated receptor gamma co-activator 1alpha, PGC 1, Peroxisome proliferator-activated receptor gamma coactivator 1 alpha, Peroxisome proliferator-activated receptor-gamma co-activator-1alpha, peroxisome proliferator activated receptor-gamma co-activator-1 alpha, peroxisome proliferator-activated receptor gamma coactivator-1 alpha, PGC-1A, PPAR-gamma coactivator-1alpha, Peroxisome proliferator activated receptor gamma coactivator 1alpha, Peroxisome proliferator activated receptor gamma coactivator 1 alpha, peroxisome proliferator-activated receptor-gamma-coactivator-1alpha, Peroxisome proliferator-activated receptor gamma co-activator-1 alpha, PGC -1alpha, peroxisome proliferator activated receptor gamma coactivator-1 alpha, PPARGgamma coactivator-1alpha, peroxisome proliferator-activated receptor-gamma coactivator1alpha, peroxisome proliferator-activated receptor gamma-coactivator-1alpha, PPAR-gamma-coactivator 1alpha, PPARG co-activator-1alpha, PPARGgamma coactivator-1alpha, peroxisome proliferator-activated receptor gamma, coactivator 1alpha, 3-D24, Peroxisome proliferator-activated receptor gamma coactivator 1-alpha, peroxisome proliferator-activated receptor-gamma coactivator 1

		alpha, peroxisome proliferator-activated receptor gamma-coactivator 1-alpha, peroxisome proliferator-activated receptor gamma co-activator-1-alpha, PGC-1-alpha, peroxisome proliferator-activated receptor gamma coactivator-1 alpha, peroxisome proliferator-activated receptor gamma coactivator-1 alpha, peroxisome proliferator-activated receptor gamma co-activator 1-alpha, peroxisome proliferator activated receptor gamma co-activator 1 alpha, peroxisome proliferator-activated receptor gamma coactivator-1-alpha, peroxisome proliferator-activated receptor gamma coactivator1-alpha, PPARg co-activator 1-alpha, peroxisome proliferator-activated receptor gamma co-activator 1 alpha, PPARgamma-coactivator-1alpha, PPAR-gamma co-activator 1-alpha, peroxisome proliferator activated receptor gamma coactivator-1alpha, peroxisome proliferator-activated receptor gamma-coactivator 1 alpha, PPAR gamma coactivator 1 alpha, PPAR-Gamma-Coactivator-1 Alpha, peroxisome proliferator activated receptor gamma co-activator 1-alpha, PGC1-a, peroxisome proliferator-activated receptor-gamma coactivator 1-alpha
MCM2	ENSP00000265056	MCM family, MCM2, nuclear protein BM28, CDCL1, CCNL1, BM28, Mcm2p, MCM-2, minichromosome maintenance complex component 2, DNA replication licensing factor MCM2
GOLPH3	ENSP00000265070	Golgi protein, Golgi-associated protein, coat protein, GPP34, Vps74p, GOLPH3, Golgi phosphoprotein 3, Golgi phosphoprotein-3, coat-protein, GOPP1
CALB1	ENSP00000265431	Calbindin, d28k, Calb1, CaLB, calbindin 1, Calbindin-1, calbindin D28, cal- bindin
GAL	ENSP00000265643	Gal1, GALN, galanin, gal-1, galanin message associated peptide, galanin peptides, galanin-message-associated peptide, galanin message-associated peptide, gal 1
CCAR1	ENSP00000265872	CARP-1, CCAR1, cell cycle and apoptosis regulatory protein-1, Cell cycle and apoptosis-regulatory protein-1, CARP1, cell division cycle and apoptosis regulator 1, CARP- 1, CCAR-1
PRDM16	ENSP00000270722	MEL1, PRDM16, PR domain containing 16, PR domain containing protein 16, PR-domain-containing 16, Mel-1, hmel1, PRDM-16, PR domain-containing 16, PR/SET domain 16, PR/SET Domain Family, PR-domain-containing-16

CTSK	ENSP00000271651	cathepsin K, cathepsins, cathepsin S, CTSK, cathepsin O, cathepsin-K, cathepsin X, 2 A-to, PknD, CTSO, CathepsinK, cathepsin-S, U20280, EC 3.4.22.38
STAR	ENSP00000276449	StAR, steroidogenic acute regulatory protein, StarD1, steroidogenic acute regulator, STA R
MTA2	ENSP00000278823	MTA2, NuRD complex, MTA1-L1, MTA-2, MTA1L1, metastasis associated 1 family, member 2, metastasis-associated 1 family, member 2, Metastasis Associated 1 Family Member 2
FBXW7	ENSP00000281708	Cdc4, hCdc4, Fbw6, Fbxw7, FBW7, SEL-10, Cdc4p, hAgo, Fbxw6, hSel-10, F-box and WD-40 domain protein 7, SEL10, F-box and WD40 domain protein 7, F-box and WD repeat domain-containing 7, F-box- and WD repeat domain-containing 7, F-box/WD repeat-containing protein 7, F-box and WD repeat domain containing-7, F-box and WD repeat domain containing 7, F-box/WD-repeat-containing protein 7, FBXW7 p, F-box and WD repeat domain-containing7
TNFSF4	ENSP00000281834	OX40L, OX40 ligand, TNFSF4, gp34, CD134L, OX-40 ligand, tumor-necrosis factor superfamily, HGP34, tumor necrosis factor superfamily, tumor necrosis factor super-family, tumor necrosis factor superfamily, member 4, tumor necrosis factor (ligand) superfamily, member 4, tumor necrosis factor ligand superfamily member 4, tumor necrosis factor-superfamily, OX40-ligand, CD252, OX-40L, OX40-L, tumor necrosis factor super family, TXGP1
BMP6	ENSP00000283147	bone morphogenetic proteins, BMP6, Vgr-1, BMP-6, bone morphogenetic protein-6, bone morphogenetic protein 6, vgr, hBMP-6, bone-morphogenetic protein-6, bone morphogenetic proteins, Bmp, BMP 6
UBASH3B	ENSP00000284273	p70, Sts-1, TULA-2, Sts1, T-cell ubiquitin ligand-2, UBASH3B, ubiquitin-associated and SH3 domain-containing B, Ubiquitin Associated and SH3 Domain Containing B
WNT3A	ENSP00000284523	WNT3A, Wnt family, Wnt-3a, Wnt-family, wingless-type mmtv integration site family, member 3a, Wnt family member 3A, Wnt 3a
LET7A5P	hsa-let-7a-5p	let-7a, hsa-let-7a, let7a, let-7a-5p, hsa-let-7a-5p
MIR1260B	hsa-miR-1260b	miR-1260b, hsa-miR-1260b, miR1260b
MIR200C3P	hsa-miR-200c-3p	miR-200c, hsa-miR-200c, mir200C, miR-200c-3p, miR 200c, hsa-miR-200c-3p
MIR4103P	hsa-miR-410-3p	miR-410, miR410, miR-410-3p, hsa-miR-410-3p
MIR630	hsa-miR-630	miR-630

MIR92A3P	hsa-miR-92a-3p	miR-92a, miR-92, hsa-mir-9-2, hsa-mir-92a, miR-92a-3p, miR92a, miR-9-2, hsa-miR-92a-3p, hsa-miR-92, hsa-miR-92a-3p, MIR9-2
ATXN8OS	ATXN8OS	SCA8, ATXN8OS, KLHL1AS, SCA-8
GSTT2B	ENSP00000290765	GSTT2, GSTT2B, glutathione S-transferase theta 2, GST-T2
LRRC3	ENSP00000291592	leucine-rich repeat containing protein 3, leucine-rich repeat-containing protein 3
SCGB3A1	ENSP00000292641	HIN-1, high in normal-1, high-in-normal 1, high-in-normal-1, SCGB3A1, HIN1, UGRP2
BMP10	ENSP00000295379	BMP-10, bone morphogenetic proteins, Bmp10, bone morphogenetic protein-10, bone morphogenetic proteins, Bone Morphogenetic Protein 10, Bmp
MITF	ENSP00000295600	MITF, microphthalmia-associated transcription factor, COMMAD, MITF-C, CMM8, microphthalmia associated transcription factor, melanogenesis associated transcription factor, MITF c
CXCL5	ENSP00000296027	SCYB5, ENA-78, CXCL5, chemokine ligand 5, epithelial-derived neutrophil activating protein-78, ENA78, CXCL-5, chemokine (C-X-C motif) ligand 5, chemokine(C-X-C motif) ligand 5, ENA 78, C-X-C motif chemokine ligand 5, chemokine ligand5, CXC motif chemokine ligand 5, C-X-C motif chemokine 5, neutrophil-activating peptide ENA-78
PPBP	ENSP00000296028	Tc2, connective tissue-activating peptide-III, TC-1, beta-thromboglobulin, BTG1, Tc1, CTAP III, CTAP-III, BTG-1, NAP-2, beta TG, connective tissue activating peptide-III, beta-TG, PPBP, TC-2, platelet basic protein, connective tissue-activating peptide III, LA-PF-4, Pro-platelet basic protein, neutrophil-activating peptide-2, TC 2, connective tissue activating peptide III, CXCL7, beta thromboglobulin, MDGF, Nap2, HTC 2, T-C-2, T-C-1, chemokine ligand 7, pBP, proplatelet basic protein, CTAPIII, Pro Platelet Basic Protein
ABCE1	ENSP00000296577	RLI, RNase L inhibitor, RNS4I, RNaseL inhibitor, Rli1, ABCE1, RNASEL-inhibitor, ATP-binding cassette, subfamily E, member 1, RNase L inhibitor, ATP-binding cassette sub-family E member 1, ATP-binding cassette subfamily E member 1, rnasel-1
CARTPT	ENSP00000296777	cocaine- and amphetamine-regulated transcript, Cartpt, cocaine and amphetamine-regulated transcript, cocaine- and amphetamine-regulated-transcript, cocaine and amphetamine regulated transcript, cocaine-and amphetamine regulated transcript

SOX17	ENSP00000297316	Sox17, SOX17 p, SOX17-p, Sox-17, SRY-box 17, SRY-BOX17, SRY (sex determining region Y)-box 17, transcription factor Sox17
CFL2	ENSP00000298159	Cofilin-2, CFL2, cofilin 2, cofilin2
AKR1E2	ENSP00000298375	testis specific protein, htAKR, aldo-keto reductases, testis-specific protein, testis aldo-keto reductase, aldoketoreductases, aldoketo reductases, AKR1E2
PRDX3	ENSP00000298510	AOP-1, PRDX3, Prx III, MER5, Aop1, peroxiredoxin III, peroxiredoxin 3, peroxiredoxin-3, antioxidant protein 1, antioxidant protein-1, Prx-III, PrxIII, SP-22
NELL1	ENSP00000298925	Nell1, NRP1, Nrp-1, nel-like 1, Nell-1, nel-like1, Nel-Like Protein-1, Neural EGFL-Like 1, neural EGFL like 1, NEL-Like Protein 1
HIF1AN	ENSP00000299163	HIF1AN, FIH-1, factor inhibiting HIF-1, FIH1, hypoxia-inducible factor asparagine hydroxylase, factor-inhibiting HIF-1, HIF-1AN, hypoxia-inducible factor 1-alpha inhibitor, hypoxia inducible factor 1 alpha subunit inhibitor, Factor inhibiting HIF1, hypoxia inducible factor 1-alpha subunit inhibitor
OR2D2	ENSP00000299459	HB2, hHb2, HH-B2
SLC9A5	ENSP00000299798	NHE5, SLC9A5
TPX2	ENSP00000300403	C20orf2, TPX2, p100, DIL-2, HCA519, HCA90, DIL2, C20orf1, Fls353, Repp86, targeting protein for Xklp2, HD IL-2, TPX-2, HD-IL2, HDIL-2, HD-IL-2
CDK2AP2	ENSP00000301488	p14, HP-14, p 14, HP14, CDK2AP2
KCNAB3	ENSP00000302719	Kvbeta3, KCNA3B, aldo-keto reductases, aldoketoreductases, aldoketo reductases
GUSB	ENSP00000302728	beta-glucuronidase, GUSB, beta G1, beta glucuronidase, EC 3.2.1.31, MPS7
MTNR1A	ENSP00000302811	mt1, MT-1, HMT-1, MTNR1A, hMT1, melatonin receptor 1 A, melatonin receptor 1A, melatonin receptor type 1A
PTGER4	ENSP00000302846	EP4, prostaglandin E receptor 4, EP4R, PTGER4, PTGER2, hEP4, prostaglandin E2 receptor EP4 subtype, E-P4, EP-4, Prostanoid EP4 receptor, prostaglandin E receptor-4
SLC23A1	ENSP00000302851	SVCT1, Slc23a1, SLC23A2, solute carrier family 23 member 1, SVCT-1, Sodium-dependent vitamin C transporter-1
IL17D	ENSP00000302924	IL-22, I22, IL-17D, IL-2 2, interleukin-17D, IL17D, interleukin 17D, IL 22

LRP8	ENSP00000303634	ApoER2, LRP8, apolipoprotein E receptor 2, Low-density lipoprotein receptor-related protein 8, low density lipoprotein receptor-related protein 8, LRP-8, Apolipoprotein E receptor-2, Low density lipoprotein receptor related protein 8, MCI-1
COPS6	ENSP00000304102	COP9 signalosome subunit 6, CSN6, Vpr-interacting protein, hVIP, Vpr Interacting Protein, 4D10, COP9 subunit 6, COPS6
TM4SF1	ENSP00000304277	TM4SF1, L6P, tumor-associated antigen L6, transmembrane-4 L six family member 1, tumor associated antigen L6, transmembrane 4 L6 family member 1, Transmembrane-4 L-Six family member-1, Transmembrane-4-L-six-family member-1, transmembrane 4 L six family member 1, transmembrane 4 super family member 1, transmembrane-4 L6 family member 1
RAC3	ENSP00000304283	Rac3, Rho family GTPases, Rho-family GTPases, Rac3 human, RAC 3, RAC-3
BMP1	ENSP00000305714	Bmp1, BMP-1, Bone morphogenetic protein 1, bone morphogenetic proteins, procollagen C-endopeptidase, procollagen C-proteinase, Tld, PCP-2, bone morphogenetic protein-1, procollagen C proteinase, mammalian Tolloid protein, Pcp2, pcp, Bmp 1, bone morphogenetic proteins, PC p, Bmp, procollagen - C - proteinase
PRKCE	ENSP00000306124	protein kinase C-epsilon, PRKCE, Protein kinase Cepsilon, protein-kinase-C epsilon, protein kinase C epsilon, Pkce, 5LIH
GRM5	ENSP00000306138	mGluR5, metabotropic glutamate receptor 5, GRM5, mGlu5, glutamate receptor, metabotropic 5, metabotropic glutamate receptor-5, mGluR 5, 5 CGD
ITPR1	ENSP00000306253	IP3R1, SCA16, InsP3R1, IP3R, Itpr1, SCA15, inositol 1, 4, 5-trisphosphate receptor type 1, type 1 inositol 1, 4, 5-trisphosphate receptor, SCA-16, ITPR1 p, inositol-1, 4, 5-triphosphate receptors, AC V, IP3 R1, IP3-R1, inositol 1, 4, 5-trisphosphate receptor, type 1, SCA29, IP3-R, inositol 1, 4, 5-triphosphate receptors, SCA1-5
ADRA1B	ENSP00000306662	alpha 1B-AR, ADRA1B, alpha1b-AR, alpha 1B-adrenergic receptor, ADRA1, alpha1B adrenergic receptor, alpha1B AR, alpha1B-adrenergic receptor, alpha 1B-adrenoreceptor, Alpha-1B adrenergic receptor, alpha-1B-adrenergic receptor

PCSK1	ENSP00000308024	HPC1, PC-1, HPC3, Pc 1, prohormone convertase 3, SPC3, Nec-1, neuroendocrine convertase-1, prohormone convertase 1, NEC1, proprotein convertase 1, PCSK1, SP-C3, HPC-1, Pc1, PC-3P, prohormone convertase-1, HPC-3, pro-hormone convertase-1, proprotein convertase subtilisin/kexin type 1, Proprotein convertase subtilisin/kexin-type 1, PCSK-1
PLG	ENSP00000308938	plasminogen, Plg
TWNK	ENSP00000309595	SCA8, Twinkle, C10orf2, TWNK, PEO1, ATXN8, chromosome 10 open reading frame 2, SCA-8, pEO, PEO-1, MTDPS7
MAP3K11	ENSP00000309597	mlk3, MLK-3, Mixed lineage kinase 3, Mixed-lineage kinase 3, Sprk, Mixed lineage kinase-3, MAP3K11, mitogen-activated protein kinase kinase kinase 11, Mixed-lineage kinase-3, mitogen-activated protein kinase kinase kinase-11, SPR K
RIN1	ENSP00000310406	Rin1, Ras and Rab interactor 1
PSMC5	ENSP00000310572	p45, Hs8, PSMC5, TRIP1, TRIP-1, Sug1, SUG-1, HS-8, Trip 1
MAL	ENSP00000310880	MAL, MyD88 adapter-like, myelin and lymphocyte protein, m AL, T-lymphocyte maturation associated protein, T-lymphocyte maturation-associated protein
CD7	ENSP00000312027	CD7, CD7 molecule, gp40, Leu9, Tp40, CD7 antigen, CD-7, L eu9, Tp41, Leu-9
HP1BP3	ENSP00000312625	HP1-BP74, HP1BP3, heterochromatin protein 1 binding protein 3, heterochromatin protein 1-binding protein 3
CD46	ENSP00000313875	CD46, Membrane cofactor protein, membrane co-factor protein, Tlx, CD46 molecule, MIC10, Mcp, MC p, hCD46, 3 in B
SGSH	ENSP00000314606	sulfamidase, sulphamidase, EC 3.10.1.1, Sgsh, N-sulfoglucosamine sulfohydrolase, N-sulphoglucosamine sulphohydrolase
IL20RA	ENSP00000314976	IL-20R1, IL-20Ralpha, IL20RA, IL-20RA
MOB4	ENSP00000315702	MOB1, MOB 3, Mob3, STRIPAK complex, Mob-1, class II mMOB1, hMOB1, hMOB3, MOB4
COX5A	ENSP00000317780	Cox5a, cytochrome c oxidase subunit 5a, COX Va
CEP57	ENSP00000317902	Translokine, CEP57, PIG8, Pig 8
BID	ENSP00000318822	BH3 interacting domain death agonist, BH3-interacting-domain death agonist, BH3-interacting domain death agonist, BH3 interacting-domain death agonist
CAMK2G	ENSP00000319060	CaMK, calcium/calmodulin-dependent protein kinase II gamma, CAMK2G p, CAMKG, CAMK2G, CaM-K, calcium/calmodulin-dependent protein kinase IIgamma

SERPINF2	ENSP00000321853	alpha2-antiplasmin, alpha 2-plasmin inhibitor, alpha 2-PI, alpha 2PI, alpha 2-antiplasmin, alpha2PI, alpha 2 antiplasmin, alpha2-plasmin inhibitor, Alpha-2 antiplasmin, alpha2-PI, AP-I, alpha2 antiplasmin, aap, alpha-2-plasmin inhibitor, SERPINF2, alpha-2-antiplasmin, serpin peptidase inhibitor, clade F, member 2, A2AP, Apl
MFAP3	ENSP00000322956	microfibril-associated protein-3, MFAP3
PLEC	ENSP00000323856	PLEC1, plectin, pcN, HD1, PLEC, plakins, EBS1, HD-1, plectin 1, EBS-1, Plectin-1, PLEC 1
PENK	ENSP00000324248	preproenkephalin, pre-proenkephalin, proenkephalin, PENK, PENKA, Proenkephalin A, PENK A, pro-enkephalin
ULK1	ENSP00000324560	UNC-51, ATG1, Unc-51 like autophagy activating kinase 1, Unc51.1, Unc-51-like kinase 1, hATG1, unc-51-like autophagy activating kinase 1, atg1p, UNC51-like kinase 1, Unc-51-like-kinase1, Unc-51 like kinase 1, UNC-51-like kinase1, Unc-51-like Kinase-1, Unc51like kinase 1, Unc-51-like autophagy-activating kinase 1, unc-51 like autophagy-activating kinase 1, UNC51
CD28	ENSP00000324890	CD28, CD28 molecule, Tp44, CD28 antigen, CD-28, CD 28, t-p44
PRX	ENSP00000326018	PRX, periaxin
KLK4	ENSP00000326159	prostase, PRSS17, kallikreins, kallikrein, ARM-1, KLK4, Kallikrein 4, enamel matrix serine proteinase 1, ARM1, arm 1p, kallikrein-4, KLK-4, EMSP1, serine protease 17, KLK-L1, Kallikrein-related peptidase 4, P-STs, Kallikrein-related peptidase-4, kallikrein related peptidase 4, Arm 1, Kallikrein-related-peptidase-4, kalli krein
MAF	ENSP00000327048	c-Maf, Maf, cMAF, V-maf avian musculoaponeurotic fibrosarcoma oncogene homolog, proto-oncogene c-Maf, v-maf musculoaponeurotic fibrosarcoma oncogene homolog, transcription factor Maf, MAF BZIP Transcription Factor
BMP8A	ENSP00000327440	bone morphogenetic proteins, bone morphogenetic proteins, BMP8A, Bmp
SLC5A2	ENSP00000327943	SGLT2, SLC5A2, sodium/glucose cotransporter 2, sodium/glucose co-transporter 2, SGLT 2, SGLT-2, SGLT- 2, hSGLT2, sodium/glucose cotransporter-2, Sodium/glucose co-transporter-2
IL25	ENSP00000328111	IL-17E, IL-25, IL17E, IL25, interleukin-25, hIL-17E, Interleukin-17E, Interleukin 25, interleukin 17E
IL20RB	ENSP00000328133	IL-20R2, IL20RB, IL-20RB, IL20R2, interleukin-20 receptor beta

DGKA	ENSP00000328405	DAGK, 80-kDa diacylglycerol kinase, DGKA, diacylglycerol kinase alpha, DGKalpha
CADM1	ENSP00000329797	IGSF4, TSLC1, SynCAM, IGSF4A, Necl2, SynCAM 1, cell adhesion molecule-1, Cadm1, BL2, Necl-2, synaptic cell adhesion molecule, cell adhesion molecule 1, Tumor suppressor in lung cancer-1, RA175, SgIGSF, SynCAM1, Nectin-like protein 2, tumor suppressor in lung cancer 1, BL-2, HBL-2, TSLC-1, HBL2, CADM-1, cell adhesion molecule1, cell-adhesion molecule 1, cell-adhesion molecule-1, nectin-like-2, CADM 1, synaptic cell-adhesion molecule
PSMG1	ENSP00000329915	DSCR2, PAC-1, PAC1, Down Syndrome Critical Region gene 2, PSMG1, c21-LRP, chromosome 21 leucine-rich protein, PAC 1
PDGFB	ENSP00000330382	PDGFB, PDGF-2, c-sis, PDGF-B, PDGF2, proto-oncogene c-sis, platelet-derived growth factor B-chain, PDGF B, oncogenes--is, platelet-derived growth factor-beta polypeptide, platelet-derived growth factor B chain, protooncogene c-sis, platelet-derived growth factor-B chain, csis, platelet-derived growth factor subunit B, platelet-derived growth factor beta polypeptide, platelet derived growth factor b-chain
CD86	ENSP00000332049	B7-2, B7.2, CD86, B-lymphocyte antigen B7-2, CD86 molecule, CD86 antigen, B72, CD 86, CD-86, 1 NCN
SLIT3	ENSP00000332164	Slit3, Slit-2, SLIT2, Slit1, slit homolog 3, SLIT 2
H2AC20	ENSP00000332194	H2A, H-2a, H2-A, histone cluster 2 H2A family member C
RARB	ENSP00000332296	hAP, RARB, retinoic acid receptor beta, Rar-b, retinoic acid receptor-beta, retinoic acid receptor B, RARbeta1, RAR-beta1, retinoic acid receptor, beta, RA- RB, NR1B2, RAR beta 1
CCR4	ENSP00000332659	CCR4, chemokine receptor 4, ChemR13, K5-5, CMKBR4, CC-CKR4, Ccr4p, chemokine receptor-4, C-C chemokine receptor type 4, chemokine (C-C motif) receptor 4, CD19 4, chemokine (C-C motif) receptor-4, C-C motif chemokine receptor 4, C-C motif chemokine receptors, CD19-4, CC chemokine receptor type 4
KCND2	ENSP00000333496	Kv4.2, Kcnd2, voltage-gated potassium channel subunit Kv4.2, Potassium Voltage-gated Channel Subfamily D Member 2
CYP2F1	ENSP00000333534	CYP2F, CYP2F1, EC 1.14.14.1, cytochrome P450 2F1

PRKD1	ENSP00000333568	PKD, PKCmu, Protein kinase D, Protein kinase D1, PRKCM, PRKD1, PKC mu, PKCm, serine/threonine-protein kinase D1, protein kinase D 1, Pkd1 p, protein kinase D-1
ABCC5	ENSP00000333926	MRP5, pABC11, SMRP, MOAT-C, ABCC5, ATP binding cassette sub-family C, multi-drug resistance-associated protein 5, ATP-binding cassette sub-family C, ATP binding cassette subfamily C
CYP2R1	ENSP00000334592	CYP2R1, vitamin D 25-hydroxylase, vitamin D-25-hydroxylase, cytochrome P450 2R1, cytochrome P450, family 2, subfamily R, polypeptide 1, hCYP2R1
LIMK1	ENSP00000336740	LIMK1, LIMK, LIMK-1, Lim domain kinase 1, LIM-domain kinase 1
ATF4	ENSP00000336790	activating transcription factor 4, CREB-2, Atf4, ATF-4, CREB2, TAXREB67, activating transcription factor-4
PNRC1	ENSP00000336931	B4-2, PRR2, B42, PNRC1
DACT1	ENSP00000337439	DAPPER1, Dact1, HDPR1, Dapper homolog 1, HDPR-1, Dpr1, dishevelled binding antagonist of beta-catenin 1
LCK	ENSP00000337825	lck, p56lck, LSK, 2 of 4, lymphocyte-specific protein tyrosine kinase, Src family tyrosine kinases, T cell-specific protein tyrosine kinase, lymphocyte-specific protein-tyrosine kinase, 1q6-8, p56 LCK, YT16, Src-family tyrosine kinases, 3 MPM, lymphocyte specific protein tyrosine kinase, lymphocyte cell-specific protein-tyrosine kinase, LCK proto-oncogene, Src family tyrosine kinase, LC-k, T-cell-specific protein tyrosine kinase
SUV39H1	ENSP00000337976	SUV39H1, Suv39h, Suv39 h1, MG44, Suv-39h1, SUV39H 1, Suv39-h1, KMT1A, suppressor of variegation 3-9 homolog 1, 3 MTS, suppressor of variegation 3-9 homolog1
HEY1	ENSP00000338272	HEY1, hesr1, Hey-1, hairy/enhancer-of-split related with YRPW motif-1, hairy/enhancer-of-split related with YRPW motif 1, HERP2, Hrt1, Hrt-1, Hairy/enhancer-of-split related with YRPW motif protein 1, hes-related family bHLH transcription factor with YRPW motif 1
LGALS12	ENSP00000339374	GRIP-1, galectin-12, GRIP1, LGALS12
DFFB	ENSP00000339524	caspase-activated nuclease, caspase-activated DNase, DFFB, DFF40, caspase-activated deoxyribonuclease, C-AD, caspase activated DNase, CaD, DFF-40, C AD
IDS	ENSP00000339801	iduronate-2-sulfatase, EC 3.1.6.13, Iduronate 2-sulfatase, alpha-L-iduronate sulfate sulfatase, IdS, iduronate 2 sulfatase, iduronate-2 sulfatase, iduronate -2- sulfatase, I-D-S

TPST2	ENSP00000339813	TPST-2, tyrosylprotein sulfotransferase-2, 3 AP-1, TPST2, Tyrosylprotein sulfotransferase 2
TCF7	ENSP00000340347	TCF1, TCF-1, transcription factor 7, Tcf7, T-cell factor 7, transcription factor-7, TCF-7, T-cell-factor-7, T cell-specific transcription factor-1, T Cell Factor 7, TCF/LEF transcription factor family
HUWE1	ENSP00000340648	HUWE1, HECT, UBA and WWE domain-containing 1, HUWE1 p, 2 mul, ARF-BP1, UreB1, upstream regulatory element binding protein 1, hUREB1, HectH9, HECT, UBA and WWE domain-containing protein-1, HECT, UBA and WWE domain-containing protein 1
SFN	ENSP00000340989	14-3-3Sigma, Sfn, Stratifin, 14-3-3 sigma, 5 MYC, 14-3-3-sigma, 14-3-3 protein sigma, epithelial cell marker protein-1
NANOS2	ENSP00000341021	NOS2, NANOS2, NOS-2, hNOS2, NOS 2
CSN2	ENSP00000341030	beta-casein, CSN2, CASB, beta -casein, beta casein, casein beta
ACACB	ENSP00000341044	ACC2, EC 6.4.1.2, acetyl-CoA carboxylase 2, acetyl-CoA carboxylase-beta, ACC-beta, ACACB, ACC-2, ACCbeta, acetyl-coenzyme A carboxylase beta, Acetyl-CoA carboxylase beta, acetyl-coenzymeA carboxylase beta, acetyl CoA carboxylase 2, acetyl-coA carboxylase2, Acetyl-CoA carboxylase-2
CAV3	ENSP00000341940	caveolin-3, CAV3, Cav-3, VIP-21, M-caveolin, VIP21, caveolin 3, caveolin3, LGMD-1c, CAV3 p
PRDX6	ENSP00000342026	24-kDa protein, 1 cys, 24 kDa protein, PRX, p29, EC 1.11.1.7, antioxidant protein 2, peroxiredoxin 6, 1-cys peroxiredoxin, Prdx 6, Prdx6, peroxiredoxin-6, Peroxiredoxin6
SP100	ENSP00000343023	HSP100, SP100, LYSp100B, nuclear autoantigen SP100, Sp100 nuclear antigen, Sp-100
GJA4	ENSP00000343676	Cx37, connexin37, Gja4, gap junction protein alpha-4, connexin 37, hCx37, gap junction protein, alpha 4, 37 kD, CX 37, Connexin-37
TP53INP1	ENSP00000344215	p53DINP1, TP53INP1, p53-dependent damage-inducible nuclear protein 1, stress-induced protein, stress induced protein, tumor protein p53 inducible nuclear protein 1, tumor protein p53-inducible nuclear protein 1
GATA2	ENSP00000345681	GATA2, GATA-2, NF-E1b, GATA-binding protein 2, GATA binding protein 2, GATA2 p, GATA binding protein2, endothelial transcription factor GATA-2

NFYA	ENSP00000345702	CBFb, NF-YA, HAP2, CBFA, CBF-A, CBF-B, nuclear transcription factor Y subunit alpha, NFYA, Hap 2
TAP1	ENSP00000346206	APT1, hy3, PSF1, RING4, TAP1, D6S114E, hTAP1, TAP-1, TAP 1, ABCB2, ATP-binding cassette subfamily B, transporter 1, ATP-binding cassette, subfamily B, Hy-3, peptide transporter TAP1
COPS8	ENSP00000346340	Csn8, COP9 signalosome subunit 8, 4D10, COPS8
MRTFA	ENSP00000347847	MAL, MKL1, MRTF-A, myocardin family, megakaryocytic acute leukemia, megakaryoblastic leukemia-1, myocardin-related transcription factor A, MKL, Megakaryoblastic leukemia 1, KIAA 1438, m AL, myocardin-related transcription factor-A, MKL-1, Myocardin Related Transcription Factor-A, m-KL, myocardin related transcription factor A, MRTFA
C1D	ENSP00000348107	LRP1, C1D, SUN-CoR, Small Unique Nuclear receptor CoRepressor, HC1D, LRP-1, Rrp47, LRP 1
PTGER3	ENSP00000349003	EP3, EP3-VI, HEP3, EP3-IV, EP3-I, EP3-II, PTGER3, hEP3-I, EP3-III, prostanoid EP3-receptor, prostaglandin E receptor 3, prostaglandin E receptor 3 (subtype EP3, prostaglandin-E receptor 3, Prostaglandin E2 receptor EP3 subtype
CILK1	ENSP00000349458	intestinal cell kinase, MRK, ICK, KIAA0936, MAK-related kinase, I-CK
KLRG1	ENSP00000349477	KLRG1, MafA, killer cell lectin-like receptor G1, MAFA-L, 2F1, MAFA-like receptor, killer-cell lectin-like receptors, mast cell function-associated antigen, KLR, killer cell lectin-like receptors, killer cell lectin-like receptor subfamily G member 1, KLRG-1, killer-cell lectin like receptor G1
PRODH	ENSP00000349577	PRODH2, PRODH, proline oxidase, proline dehydrogenase, PIG-6, proline dehydrogenase (oxidase) 1, PRODH1, proline dehydrogenase 1
ADIPOR2	ENSP00000349616	adiponectin receptors, ADIPOR2, Adipo-R2, adiponectin receptor 2, adiponectin receptor-2, PAQR-2, adiponectin-receptors
ATP2B4	ENSP00000350310	PMCA4b, PMCA4, ATP2B2, hPMCA4, ATP2B4, hPMCA4b
NR3C2	ENSP00000350815	mineralocorticoid receptor, NR3C2, mcr, 5 HCV, mineralocorticoid-receptor, mLR, Nuclear Receptor Subfamily 3 Group C Member 2

CCL20	ENSP00000351671	macrophage inflammatory protein-3alpha, MIP-3alpha, CCL20, Exodus-1, SCYA20, liver and activation-regulated chemokine, macrophage inflammatory protein-3 alpha, larc, MIP3alpha, chemokine (C-C motif) ligand 20, macrophage inflammatory protein 3alpha, liver- and activation-regulated chemokine, Liver-and activation-regulated chemokine, MIP-3 alpha, macrophage-inflammatory protein 3alpha, macrophage inflammatory protein-3a, macrophage inflammatory protein 3 alpha, MIP3-alpha, Chemokine ligand 20, macrophage-inflammatory protein-3alpha, CCL-20, MIP3a, C-C motif chemokine ligand 20, hCCL20, CC-motif chemokine 20, MIP-3a
KCNQ2	ENSP00000352035	KCNQ2, EBN1, Kv7.2, K V 7.2, KV 7.2, potassium voltage-gated channel, KQT-like subfamily, member 2, EBN, EIEE7, Potassium channel, voltage-gated KQT-like subfamily Q, member 2, potassium voltage-gated channel subfamily Q member 2, KCNQ2 p
CD163	ENSP00000352071	CD163, CD 163, M1-30, hemoglobin scavenger receptor, CD163 molecule, CD163 antigen, CD-163, scavenger receptor cysteine-rich type 1 protein M130, Scavenger receptor cysteine rich type 1 protein M130
ELAVL3	ENSP00000352162	Elav, HuC, ELAVL3, ple21, hu-C, HuC-L, Hu antigen C, Hu C
ANXA10	ENSP00000352248	ANXA10, annexins, annexin A10, ANX A10, ANXA 10, Annexin10
ATP2A3	ENSP00000353072	SERCA3, ATP2A3, SERCA 3
DHDDS	ENSP00000353104	DHDDS, cPt, cis-isoprenyltransferase, c Pt
CACNA1A	ENSP00000353362	SCA6, SCA 6, EA-2, CACNA1A, EA2, CaV2.1, he-A2, CACNL1A4, SCA-6, mhp, Cav 2.1, HPCA, calcium channel, voltage-dependent, P/Q type, alpha 1A subunit, calcium channel, voltage-dependent, P/Q type, alpha-1A subunit, CACNA1A p, Calcium Voltage-Gated Channel Subunit Alpha1 A
F8	ENSP00000353393	F8B, coagulation factor VIII, FVIII, F8C, Antihemophilic factor, f_8, F VIII, coagulation factor VIII, procoagulant component, HemA, F8 B, F8 p, HF8
ATP2B2	ENSP00000353414	PMCA2, ATP2B2, PMCA-2, PMCA 2, plasma membrane calcium-transporting ATPase 2

MAP2	ENSP00000353508	MAP2, Microtubule-associated protein 2, MAP-2, MAP2c, Map2B, MAP 2, microtubule-associated protein-2, MAP-2c, microtubule associated protein 2, Microtubule associated protein-2, MAP2a, MAP - 2, microtubule-associated-protein-2
CES1	ENSP00000353720	ce-1, ACAT, CES2, CES1A1, acyl-coenzyme A:cholesterol acyltransferase, egasyn, CES1, Ses1, EC3.1.1.1, hCE-1, PCE-1, CES-1, carboxylesterase 1, C-E1, CeH, acyl coenzyme A: cholesterol acyltransferase, Acyl coenzyme A:cholesterol acyltransferase, acylcoenzyme A:cholesterol acyltransferase, HCE1, CES-2, Acyl-coenzyme A: cholesterol acyltransferase, triacylglycerol hydrolase, A-C-A-T, EC 3.1.1.1, CE1, TGH, SES-1, SES 1, acyl-coenzyme A:cholesterol acyl-transferase, CES1A2, liver carboxylesterase 1, carboxyl esterase 1, acyl coenzyme A:cholesterol acyl transferase, 1Yah, hCES1, hCES2
MT-CYB	ENSP00000354554	cytochrome b, cytb, cyt b, MT-CYB, MTCYB, cytochrome-b, CYB, mitochondrially encoded cytochrome B, Cyt-b
OPA1	ENSP00000354681	OPA1, dynamin-like guanosine triphosphatase, MGM1, OPA1 p, Mgm1p, NTg, KIAA0567, N-Tg, OPA-1, optic atrophy protein 1, npG, MGM-1
CALD1	ENSP00000354826	l-CaD, h-CaD, Cdm, Caldesmon, CaD, LCAD, C-AD, CALD1, hCAD, c DM, Caldesmon 1, C AD, c-DM
SGMS1	ENSP00000354829	Mob-1, Mob1, hMOB1, SMS1, sphingomyelin synthase 1, SGMS1, sms-1
MT-ND4	ENSP00000354961	ND4, NADH-dehydrogenase 4, NADH dehydrogenase subunit 4, MTND4, MT-ND4, NADH dehydrogenase 4, ND 4
ABCG1	ENSP00000354995	ABCG1, hABCG1, ABC8, ATP-binding cassette subfamily G, ATP-Binding Cassette, Sub-Family G (WHITE), Member 1, ATP-binding cassette subfamily G member 1, ATP-binding cassette sub-family G, ATP-binding cassette, subfamily G, member 1, ABCG-1
CTNNBL1	ENSP00000355050	p14, CTNNBL1, P14L, nuclear-associated protein, HP-14, beta-catenin-like protein 1, p 14, HP14
SELENON	ENSP00000355141	SEPN1, selenoprotein N, SelN, SELENON, selenoprotein N, 1
AKR7A3	ENSP00000355377	aldo-keto reductases, aldoketoreductases, AFAR2, AKR7A3, aldoketo reductases, aflatoxin aldehyde reductase, aflatoxin B1 aldehyde reductase member 3
AGT	ENSP00000355627	AGT, angiotensinogen, A-G-T, Ag t, Ag-T, 4-APH
CENPF	ENSP00000355922	HCP 1, HCP1, CENP-F, CENPF, mitosin, centromere protein F, HCP-1, Centromere protein-F

CD55	ENSP00000356030	DAF, decay-accelerating factor, CD55, decay accelerating factor, complement decay-accelerating factor, CD55 molecule, CHAPLE, complement decay accelerating factor
MAPKAPK2	ENSP00000356070	MAPKAPK-2, MAPKAPK2, MAPKAP-K2, mitogen activated protein kinase-activated protein kinase 2, MK2, Mitogen-activated protein kinase-activated protein kinase 2, mitogen-activated protein kinase-activated protein kinase-2, MAPKAPK 2, MAP kinase-activated protein kinase-2, MAPK-APK2, MAPKAP K2, MAP kinase-activated protein kinase 2, Mitogen-activated Protein Kinase activated Protein Kinase-2, mitogen activated protein kinase activated protein kinase 2, Mitogen-Activated Protein Kinase Activated Protein Kinase 2, MK-2
ADORA1	ENSP00000356205	adenosine receptors, adenosine A1 receptor, ADORA1, RDC7, adenosine-A1 receptor, adenosine A1-receptor, ADORA 1
UCHL5	ENSP00000356425	UCH37, ubiquitin C-terminal hydrolase UCH37, UCHL5, ubiquitin C-terminal hydrolases, ubiquitin carboxyl-terminal hydrolase L5, Ubiquitin C-terminal hydrolase-L5, Uch-L5, ubiquitin carboxyl-terminal hydrolase isozyme L5, ubiquitin C-terminal hydrolase L5
RNF2	ENSP00000356480	RNF2, Ring1B, RING2, BAP1, RING finger protein 2, DinG, BAP-1, ring finger protein 1B, HBAP1, RING1-B
NCF2	ENSP00000356505	NCF-2, p67phox, p67-phox, NCF2, neutrophil cytosolic factor 2, p67 phox, neutrophil cytosol factor 2
NPHS2	ENSP00000356587	podocin, NPHS2, NPHS2 p, NPHS2-p, NPHS2, podocin
SERPINC1	ENSP00000356671	antithrombin, AT3, AT-III, Antithrombin III, ATIII, AT III, antithrombin-III, anti-thrombin, At-3, anti-thrombin III, serpin C1, SERPINC1, 1ant, serpin family C member 1, anti-thrombin-III, anti thrombin-III, antithrombin- III
XCL2	ENSP00000356793	chemokine ligand 2, chemokine ligand-2, XCL2, hXCL2
PMF1	ENSP00000357256	PMF-1, hPMF-1, PMF1, polyamine modulated factor-1, Polyamine-modulated factor 1, polyamine-modulated factor-1
PMF1-BGLAP	ENSP00000357259	PMF-1, hPMF-1, PMF1, polyamine modulated factor-1, Polyamine-modulated factor 1, polyamine-modulated factor-1
LAMTOR2	ENSP00000357288	p14, endosomal adaptor protein p14, MAPBPIP, ROBLD3, HP-14, p 14, LAMTOR2, endosomal adaptor protein, HP14

GOPC	ENSP00000357484	GOPC, CAL, Golgi-associated PDZ- and coiled-coil motif-containing protein, CFTR associated ligand, PIST, Fused in Glioblastoma, Ca-L, Golgi-associated PDZ and coiled-coil motif-containing protein, Golgi-associated PDZ- and coiled-coil motif containing protein, CFTR-associated ligand, Golgi-associated PDZ- and coiled-coil motif-containing
MKI67	ENSP00000357643	MKI67, MIB1, Mib-1, MIB- 1, MIB 1, MKI-67, marker of proliferation Ki67, proliferation marker protein Ki-67, marker of proliferation Ki-67, antigen identified by monoclonal antibody Ki-67
S100A4	ENSP00000357705	fibroblast-specific protein-1, mts1, pEL-98, Capl, MTS-1, placental calcium binding protein, S100A4, protein S100A4, p9Ka, protein Mts1, fibroblast-specific protein 1, metastasin, S100 calcium-binding protein A4, fibroblast specific protein-1, pEL98, calvasculin, placental calcium-binding protein, 18a2, S100 calcium binding protein A4, H-MTS1, MTs 1, hS100A4, fibroblast specific protein 1, S-100A4
S100A8	ENSP00000357722	CAGA, MRP 8, MRP-8, MIF, calgranulin A, MRP8, hp8, migration inhibitory factor-related protein 8, cystic fibrosis antigen, hMRP8, CFAg, cp10, S100 calcium-binding protein A8, protein S100A8, Cag A, cag-A, S100 calcium binding protein A8, calgranulin-A, CAG_A, h-S100A8, C-A-G-A, protein S100 A8, migration-inhibitory factor-related protein-8
S100A9	ENSP00000357727	p14, MIF, MRP-14, MRP 14, calgranulin B, Mrp14, MAC387, MAC 387, Migration inhibitory factor-related protein 14, calgranulin-B, S100 calcium-binding protein A9, HP-14, S100 calcium binding protein A9, Mac-387, p 14, protein S100A9, HP14
LORICRIN	ENSP00000357731	loricrin, LOR
UROS	ENSP00000357787	URO-S, UROS, uroporphyrinogen-III-synthase, UROIIS, EC 4.2.1.75, uroporphyrinogen III synthase, uroporphyrinogen-III synthase, uroporphyrinogen III cosynthase
PSMD4	ENSP00000357879	Rpn10, AS-F, antisecretory factor-1, 2kd-E, PSMD4
AMD1	ENSP00000357880	AMD1, AdoMetDC, S-adenosylmethionine decarboxylase 1, 3EpA, 3EpB, AdoMet-DC, adenosylmethionine decarboxylase 1, 3 EPA
ANXA9	ENSP00000357943	annexins, annexin A9, Annexin 31, ANX31, ANX3-1, ANXA9
NR2E1	ENSP00000357979	TLX, NR2E1, TII, Nuclear receptor TLX, T-LL, nuclear receptor subfamily 2, group E, member 1, Nuclear receptor subfamily 2 group E member 1

H2AC18	ENSP00000358155	H2A, H-2a, H2A.2, H2-A
FAM72B	ENSP00000358397	p17
UBL4A	ENSP00000358674	G6PD, G-6PD, GdX, G-6-PD, Ubl4A, DXS254E, G6 PD, ubiquitin-like protein 4A, G6PD p
TMIGD3	ENSP00000358730	adenosine receptors, A3AR, ADORA3, adenosine A3 receptor, A3 AR, A3-AR, adenosine-A3 receptor, TMIGD3
SLC16A4	ENSP00000358794	MCT4, SLC16A4, MCT5, Monocarboxylate transporter 4, MCT-4, monocarboxylate transporter-4
ABCA4	ENSP00000359245	ABCA4, STGD1, rim ABC transporter, RMP, ABCA 4, ATP-binding cassette sub-family A member 4, ABCA4 p, ATP-binding cassette, sub-family A, member 4, ATP binding cassette subfamily A, ATP binding cassette subfamily A member 4, ATP-binding cassette subfamily A, Retinal-specific ATP-binding cassette transporter
SCD	ENSP00000359380	SCD1, stearoyl-CoA desaturase, hSCD1, delta 9 desaturase, Scd, fatty acid desaturases, fatty acid desaturase, Delta(9) desaturase, Delta-9 desaturase, stearoyl CoA desaturase, SCD-1, delta9-desaturase, Delta9 desaturase, stearoyl-CoA-desaturase, stearoyl-CoA- desaturase, SCD- 1, Stearoyl Co A desaturase
CHUK	ENSP00000359424	IKKalpha, IKK1, IKK-alpha, Ikk alpha, CHUK, IKKA, conserved helix-loop-helix ubiquitous kinase, IKK-1, IkappaB kinase-1, IkappaB kinase 1, inhibitor of nuclear factor kappa-B kinase subunit alpha
GBP1	ENSP00000359504	GBP1, hGBP1, guanylate-binding protein 1, GBP-1, guanylate binding protein-1, guanylate binding protein 1, guanylatebinding protein-1, guanylate-binding protein-1, guanine nucleotide-binding protein 1, hGBP-1, GTP-binding protein 1
NTSR1	ENSP00000359532	NTR, NTSR1, neurotensin receptors, neurotensin receptor 1, NT-R, neurotensin receptor-1, neurotensin receptor type 1, NTSR-1, neurotensin receptor1
BMP5	ENSP00000359866	Bmp5, bone morphogenetic proteins, BMP-5, Bone morphogenetic protein-5, bone morphogenetic protein 5, bone morphogenetic proteins, Bmp
SRSF11	ENSP00000359988	p54, SRSF11, SFRS11
CYP2C8	ENSP00000360317	CYP2C8, Cytochrome P450 2C8, s-mephenytoin 4-hydroxylase, EC 1.14.14.1, CYP 2C8, cytochrome p450 family 2 subfamily C member 8

CYP2C19	ENSP00000360372	CYP2C, cytochrome P450 2C19, CYP2C19, P450C2C, Cyp-2c, CYP 2C, cytochrome P4502C19, CYP 2C19, cytochrome P450, family 2, subfamily C, polypeptide 19, cytochrome P450, family2, subfamily C, polypeptide19, CYP-2C19, cytochrome P450 family 2 subfamily C member 19
KCNG1	ENSP00000360626	KH2, k13, Kv6.1, K1-3, Hkh2, HKh-2, hK13
SLC25A5	ENSP00000360671	ht2, aac2, SLC25A5, 2F1, ANT2, HT-2, HT-3, HT 3, ht3, adenine nucleotide translocator-2, T_2, Aac2p, T3p, adenine-nucleotide translocator-2, ANT-2
TXNDC12	ENSP00000360688	ERp18, hTLP19, Ag1, ERp19, Ag-1, AGR-1, HAG-1, AG -1, Ag 1, agr1, TXNDC12
KCNB1	ENSP00000360806	Kv2.1, KCNB1, DRK1, Potassium voltage-gated channel subfamily B member 1, KV 2.1
IFIT2	ENSP00000360891	p54, IFI54, IFIT2, ISG 54, IFI-54K, ISG54K, ISG54, GARG39, interferon-induced protein with tetratricopeptide repeats 2, ISG-54
AKR1A1	ENSP00000361140	DD3, ALR, aldehyde reductase, AKR1A1, aldo-keto reductases, aldoketoreductases, DD 3, DD-3, aldoketo reductases
SFTPA2	ENSP00000361400	PSAP, HspA2, SP-A2, SFTPA2, SP-A II, collectins, PSP-A, SFTP1, Sftpa, surfactant protein A2, Sftp-1, PspA, PSA P, surfactant protein-A2, SPA2, hSP-A2, P-SAP, sPA, Spa2p
CDC20	ENSP00000361540	Cdc20, p55CDC, hCDC20, cell division cycle 20, CDC-20, 5K-Hu, cell division cycle 20 homolog, cell-division cycle 20
MPL	ENSP00000361548	TPOR, thrombopoietin receptor, c-mpl, Mpl, proto-oncogene c-mpl, cMpl, thrombopoietin-receptor, myeloproliferative leukemia virus oncogene, TPO-R, CD110, myeloproliferative leukemia protein
ESX1	ENSP00000361669	HESX1, Esx1, ESXR1, ESX1L, ESX-1, HESX-1
BMP8B	ENSP00000361915	bone morphogenetic proteins, hop2, OP-2, BMP8B, Osteogenic protein-2, Bmp8, BMP-8, bone morphogenetic proteins, BMP8A, OP2, Bmp, Bone Morphogenetic Protein-8B
ANXA7	ENSP00000362010	ANX7, annexin A7, synexin, annexin VII, Annexin 7, annexins, Anxa7, Annexin-A7, annexin7, AnnexinA7
DNM1	ENSP00000362014	dynamin 1, Dynamine-1, DNM1, Dnm1p, 1 dyn, 2 dyn, dynamin1
CDCA8	ENSP00000362146	Borealin, Dasra B, CDCA8, cell division cycle associated 8

ATRX	ENSP00000362441	RAD54, MRX52, ATRX, hRad54, X-linked nuclear protein, ATR-X, XNP, transcriptional regulator ATRX, RAD54L, ATR2, alpha thalassemia/mental retardation syndrome X-linked, Rad 54, rad-54, alpha-thalassemia/mental retardation syndrome X-linked
RNF8	ENSP00000362578	RNF8, Ring finger protein 8
MTCH1	ENSP00000362730	PSAP, presenilin-associated protein, PSA P, mitochondrial carrier 1, P-SAP, Mtch1
PTAFR	ENSP00000362965	PAFR, PAF-R, platelet-activating factor receptor, PTAFR, platelet-activating-factor receptor, platelet activating factor receptor, platelet-activating factor-receptor, platelet- activating factor receptor
FGR	ENSP00000363117	fgr, c-fgr, SRC2, c-src2, SRC-2, Src family tyrosine kinases, fg R, Gardner-Rasheed feline sarcoma viral oncogene homolog, Src-family tyrosine kinases, Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog, proto-oncogene c-fgr, tyrosine-protein kinase Fgr, p55c-fgr
MED12	ENSP00000363193	OPA1, FGS1, MED12, OPA1 p, TRAP230, KIAA0192, mediator complex subunit 12, mediator of RNA polymerase II transcription subunit 12, OPA-1, HopA, MED12 p, MED 12
POLE3	ENSP00000363286	p17, EC 2.7.7.7, YBL1, POLE3, CHRAC17, poly-merase, poly merase
DVL2	ENSP00000005340	DVL2, Dishevelled 2, Dishevelled-2, Dishevelled2, Dvl-2, Dvl 2, dishevelled segment polarity protein 2
SKAP2	ENSP00000005587	SKAP55R, RA70, SKAP-HOM, Saps, SKAP2, SCAP2, PRAP, Src kinase-associated phosphoprotein2, Src kinase-associated phosphoprotein 2, src kinase associated phosphoprotein 2
CX3CL1	ENSP00000006053	NTN, Abcd3, fractalkine, FKN, CX3CL1, neurotactin, SCYD1, chemokine ligand 1, CXC3, Fractal-kine, chemokine (C-X3-C motif) ligand 1, NT-N, chemokine-ligand-1, C-X3-C motif chemokine ligand 1
OTC	ENSP00000039007	ornithine transcarbamylase, EC 2.1.3.3, Otc, ornithinetranscarbamylase
GNA11	ENSP00000078429	guanine nucleotide binding protein, GNBP, guanine-nucleotide binding protein, guanine nucleotide-binding protein, Gna11, guanine-nucleotide-binding protein, FHH2, FHH-2, G-protein subunit alpha-11, G-protein subunit alpha11, G protein subunit alpha 11
CAMKK1	ENSP00000158166	CAMKK1, calcium/calmodulin-dependent protein kinase kinase 1, calcium/calmodulin-dependent protein kinase kinase-1, calcium/calmodulin-dependent protein kinase kinase1

KIF22	ENSP00000160827	KID, KIF22, KNSL4, OBP-1, kinesin-like DNA binding protein, OBP-2, kinesin family member 22, kinesin-like DNA-binding protein, SEMDJL2, OBP, O-BP
CA12	ENSP00000178638	CA XII, CA12, carbonic anhydrase XII, Carbonic Anhydrase 12, CAXII, EC 4.2.1.1, CA1-2
NDUFB4	ENSP00000184266	HB15, NDUFB4, B1-5p
TRIP6	ENSP00000200457	zyxin family, TRIP6, OIP1, thyroid receptor-interacting protein 6, thyroid receptor interacting protein-6, OIP-1, ZRP-1, zyxin-related protein 1, thyroid receptor interacting protein 6, thyroid hormone receptor interactor 6
SERPIND1	ENSP00000215727	HC2, HCII, heparin cofactor II, HC II, HCF-2, HC 2, heparin co-factor II, HC-II, HEP-2 human, Hcf2, Hep2 human, LS-2, HC-2, SERPIND1, HC -2, serpin family D member 1, Serpin D1
RBX1	ENSP00000216225	ROC1, Rbx1, RBX-1, Roc-1, Regulator of Cullins-1, 3 DPL, Ring Box Protein-1, ring-box 1, Ring-box1, Rbx 1, RING-box protein 1, RING box protein1, ring box-1, Ring box protein 1
ACO2	ENSP00000216254	mitochondrial aconitase, ACO2, aconitase 2, ACONM, Aconitase2, ACO-2, aconitase-2
EFS	ENSP00000216733	Efs, Efs2, Efs1, hEfs1, Embryonal Fyn-associated substrate, hEfs2, CASS3, cas3
PCK2	ENSP00000216780	PEPCK, PCK2, EC 4.1.1.32, phosphoenolpyruvate carboxykinase 2, hPCK2, PEPCK-M
LBP	ENSP00000217407	lipopolysaccharide binding protein, Lipopolysaccharide-binding Protein, lbp, Lipopolysaccharide-binding-protein
STS	ENSP00000217961	Asc, steroid sulfatase, EC 3.1.6.2, arylsulfatase C, AS-C, steroidsulfatase, steryl-sulfatase, steryl-sulfate sulfohydrolase, steroid-sulfatase, ARSC, AS c
F9	ENSP00000218099	factor IX, Plasma thromboplastin component, FIX, coagulation factor IX, Christmas factor, ptc, F IX, coagulation factor-IX, factor-IX, p-TC, factorix, FI x
CBLN1	ENSP00000219197	Cbln1, precerebellin, cerebellin-1
CCL17	ENSP00000219244	ABCD2, CCL17, TARC, Thymus and activation-regulated chemokine, SCYA17, thymus- and activation-regulated chemokine, CC chemokine TARC, thymus and activation regulated chemokine, C-C chemokine TARC, chemokine ligand 17, chemokine (c-c motif) ligand 17, CCL-17, C-C motif chemokine ligand 17, C-C motif chemokine 17, Ccl 17
PDIA2	ENSP00000219406	PDI, PDIP, EC 5.3.4.1, protein disulfide isomerase A2, PDIR, protein disulfide isomerase, pancreatic, PDIA2, PD-I
MEFV	ENSP00000219596	MEFV, pyrin, marenostin, TRIM20, mef

RIPK2	ENSP00000220751	RICK, RIP2, Cck, RIPK-2, CARDIAK, RIPK2, Receptor interacting protein-2, receptor-interacting protein 2, receptor-interacting serine-threonine kinase-2, receptor-interacting serine/threonine kinase 2, receptor interacting protein 2, receptor-interacting serine/threonine protein kinase-2, receptor interacting serine/threonine-protein kinase 2, receptor-interacting serine-threonine kinase 2, C-CK, receptor-interacting serine/threonine-protein kinase 2, RIP-2, receptor interacting serine/threonine kinase 2, receptorinteracting protein 2, Receptor interacting-serine/threonine-protein kinase 2, CARD3, 5AR2
AMH	ENSP00000221496	AMH, MIF, anti-Mullerian hormone, anti Mullerian hormone, Antimullerian hormone, Anti-Muellerian Hormone, anti-mullerian-hormone, anti-Mul-lerian hormone
CEACAM5	ENSP00000221992	carcinoembryonic antigen, CEACAM5, carcino-embryonic-antigen, carcino-embryonic antigen, CD66e, carcinoembryonic-antigen, CEA CAM5, carcinoembryonic antigen-related cell adhesion molecule 5, carcino embryonic antigen, carci noembryonic antigen, carcino-embryonic antigen
CDC37	ENSP00000222005	Cdc37, p50Cdc37, cell division cycle 37, cell division cycle 37 homolog
RABAC1	ENSP00000222008	PRA1, Yip3, prenylated Rab acceptor 1, PRAF1, P-Raf-1, p-Raf1, PR AF1, RABAC1
TFPI2	ENSP00000222543	Ref-1, PP5, Ref 1, placental protein 5, ref1, tissue factor pathway inhibitor-2, TFPI-2, tissue factor pathway inhibitor 2, TFPI2
CAV2	ENSP00000222693	Caveolin-2, caveolin 2, Cav-2, CAV2
STX1A	ENSP00000222812	HPC1, syntaxin 1A, syntaxins, STX1A, HPC-1, STx1, syntaxin-1A, Stx 1, Stx-1, Syntaxin1A, Syn-1A, HsTX1, syn1a, Stx-1A
PCOLCE	ENSP00000223061	PCOLCE, type I procollagen COOH-terminal proteinase enhancer, procollagen C-endopeptidase enhancer 1, Procollagen C-Endopeptidase Enhancer, P-cpe, procollagen C-proteinase enhancer 1, PCPE-1, procollagen C-proteinase enhancer-1
FIS1	ENSP00000223136	hFis1, Fis1, Fis1p, Fis-1, fission 1, fission-1, mitochondrial fission 1 protein, fission, mitochondrial 1
CYP26A1	ENSP00000224356	Cyp26a1, Cyp26, hP450RAI, P450RAI, P450RAI-1, Retinoic acid 4-hydroxylase, cp26, cytochrome P450 26A1, retinoic acid-4-hydroxylase, cytochrome P450 family 26, CYP 26A1

VTN	ENSP00000226218	vitronectin, somatomedin-B, complement S-protein, S-protein, somatomedin B, s protein, serum spreading factor, serum-spreading factor, VTN
SPI1	ENSP00000227163	SPI1, transcription factor PU.1, PU.1, Spi-1, Sfpi1, Sfpi-1, hematopoietic transcription factor PU.1, spleen focus forming virus proviral integration oncogene, SPI - 1
CD69	ENSP00000228434	CD69, CD69 antigen, he-A1, CLEC2C, CD69 molecule, Alm, 3 h up
TPI1	ENSP00000229270	triosephosphate isomerase, TIM, EC 5.3.1.1, triose phosphate isomerase, TPI 1, Tpi-1, triose-phosphate isomerase, TPI1, tpi, triosephosphate isomerase-1, triose phosphate isomerase 1, triosephosphate-isomerase 1, Triosephosphate isomerase 1, TP I
IL5	ENSP00000231454	Trf, interleukin 5, IL-5, interleukin-5, IL5, eosinophil differentiation factor, T-cell replacing factor, T-cell-replacing factor, EDF, IL 5, hIL5, T cell-replacing factor
MLH1	ENSP00000231790	MLH1, hMLH1, h MLH1, MutL homologs, mutL, DNA mismatch repair protein MLH1, hMLH1-p, HN-PCC, MLH-1, hMLH-1, MutL homolog 1, Mlh1p, mutL homolog 1, colon cancer, nonpolyposis type 2, Mut-L homolog 1, MutL-homolog 1, mut L homolog 1, DNA mismatch-repair protein Mlh1, MLH1 p, MutL homolog-1, MutL protein homolog 1, MutL homolog1
SF3B6	ENSP00000233468	p14, SF3b complex, HP-14, SF3B14, p 14, SF3B6, HP14
SLC9A2	ENSP00000233969	NHE-2, SLC9A2, NHE2
AZU1	ENSP00000233997	heparin-binding protein, azurocidin, neutrophil azurocidin, CAP37, HBP, heparin binding protein, hb P, AZU1, azu, Azurocidin 1, AZU-1
ID2	ENSP00000234091	Id2, Id-2, Id-2H, inhibitor of DNA binding 2, inhibitor of differentiation-2, Inhibitor of differentiation 2, Inhibitor of DNA-binding 2, ID2a, I-D2
NT5C1A	ENSP00000235628	CN-1, cN-I, HCN1, CN1, 5'-nucleotidases, HCN-1A, EC 3.1.3.5, Cytosolic 5'-nucleotidase 1A, NT5C1A, cN1A, HCN1A, 5'-nucleotidases, cN-1A, cytosolic 5'nucleotidase 1A
AKR7A2	ENSP00000235835	AFAR, aldo-keto reductases, aldoketoreductases, AKR7A2, AKR7, aldo-keto reductase 7, 2 bp-1, Afar1, Succinic semialdehyde reductase, 2 BP1, aldoketo reductases, aflatoxin aldehyde reductase
PKD2	ENSP00000237596	polycystin-2, Pc2, HPC2, TRPP2, polycystin 2, Pc 2, PC-2, polycystwin, R48321, PKD4, Hpc-2, PKD2 p, hPKD2, polycystin2

IAPP	ENSP00000240652	amylin, IAPP, islet amyloid polypeptide, diabetes-associated peptide, islet-amyloid polypeptide, lap, I-AP
TFG	ENSP00000240851	TFG, TRK-T3, TRK-fused gene, HMSN P, TRK fused gene
AKR1D1	ENSP00000242375	SRD5B1, AKR1D1, aldoketoreductases, aldo-keto reductase family 1, member D1, delta(4)-3-oxosteroid 5beta-reductase, aldo-keto reductases, Delta(4)-3-oxosteroid-5beta-reductase, 3 CAs, aldoketo reductases, Aldo-keto reductase family 1 member D1
ACADS	ENSP00000242592	ACADs, butyryl-CoA dehydrogenase, acyl-CoA dehydrogenase family, butyryl CoA dehydrogenase, Acyl-CoA dehydrogenase, C-2 to C-3 short chain
MC3R	ENSP00000243911	Mc3r, melanocortin receptor 3, Melanocortin-3 receptor, Melanocortin 3 receptor, MC3, MC3-R, melanocortin-3-receptor, hMC3-R, melanocortin receptor-3, HMC3, hMC3R
PI3	ENSP00000243924	elafin, PI-3, PI3, SKALP, Trappin-2, elastase-specific inhibitor, Skin-derived antileukoprotease, peptidase inhibitor 3
MT2A	ENSP00000245185	HMT2, metallothionein II, MT2A, CES1, metallothionein-II, MT II, metallothionein 2A, MT-II, ces-1, MT-2A, MT 2A, metallothionein-2, metallothionein 2, Metallothionein-2A, MT-2 human, hCES1, hmt-2
VASP	ENSP00000245932	VASP, vasodilator-stimulated phosphoprotein, vasodilator stimulated phosphoprotein, Vasodilator-Stimulated-Phosphoprotein
RALY	ENSP00000246194	RNA-binding protein, RALY, RNA binding protein, RBP, p542, RNA binding protein RALY, autoantigen p542, RNA binding-protein, RNA-binding-protein
UROD	ENSP00000246337	URO-D, upd, uroporphyrinogen decarboxylase, UROD, P-CT, PC-T, Pct, EC 4.1.1.37
KRT13	ENSP00000246635	KRT13, keratin 13, cytokeratin 13, k13, K1-3, CK13, hK13, keratin-13, CK-13, CK 13
CSN1S1	ENSP00000246891	alpha s1-casein, CSN1S1, CSN1, Alpha-s1 Casein
RAC2	ENSP00000249071	small G protein, Rac2, Rho family GTPases, Rho-family GTPases, p21rac2, small G-protein, Ras-related C3 botulinum toxin substrate 2, Rac-2, RAC family small GTPase 2
CD68	ENSP00000250092	CD68, gp 110, macrosialin, CD68 molecule, CD68 antigen, CD-68, gp110, CD 68, LAMP4

FOXA1	ENSP00000250448	Foxa1, hepatocyte nuclear factor 3alpha, hepatocyte nuclear factor 3 alpha, hepatocyte nuclear factor 3-alpha, HNF3A, hepatocyte nuclear factor-3alpha, Foxa-1, Forkhead box A1, Hepatocyte nuclear factor-3 alpha, transcription factor 3a, Forkhead box protein A1, Forkhead-box protein A1, Fork-head box protein A1, forkhead-box A1, HNF-3a, Fork head box protein A1, FOX-A1, tcf3a
UGT2A3	ENSP00000251566	UGT2A3
KRT6B	ENSP00000252252	PC-2, PC2, HPC2, K6b, PC4, KRT6B, CK6B, HPC4, Pc 2, keratin 6b, Pc 4, Hpc-2, HPC-4, PC-4
BMP15	ENSP00000252677	GDF-9B, BMP15, BMP-15, bone morphogenetic proteins, bone morphogenetic protein-15, bone morphogenetic protein 15, GDF9B, bone morphogenetic proteins, Bmp
ABCB7	ENSP00000253577	Atm1p, ABC7, Abcb7, hABC7, ATP-binding cassette subfamily B member-7, ATP-binding cassette transporter 7, ATP-binding cassette subfamily B, AsAT
RARA	ENSP00000254066	RARA, RAR, Rar-a, retinoic acid receptor-alpha, retinoic acid receptor alpha, retinoic acid receptor alpha, retinoic acid receptor, alpha, retinoic acid receptor-a, r-AR
PPP1R1B	ENSP00000254079	DARPP-32, dopamine and cAMP-regulated phosphoprotein, PPP1R1B, DARPP32, Dopamine- and cAMP-regulated phosphoprotein, AY070271, dopamine and cAMP-regulated phospho-protein, protein phosphatase 1 regulatory subunit 1B, Dopamine-and-cAMP-regulated neuronal phosphoprotein, Dopamine and cAMP regulated phosphoprotein, dopamine- and cAMP-regulated phosphoprotein, dopamine and c-AMP regulated phosphoprotein, dopamine- and cAMP-regulated neuronal phosphoprotein
LGALS3	ENSP00000254301	Galectin-3, gal3, Galectin 3, laminin-binding protein, Gal-3, galactoside-binding protein, Lgals3, galig, Mac-2, CBP35, hMac-2, LGALS2, galactoside binding protein, IgE-binding protein, laminin binding protein, hgal-3, Mac2, Mac-2 antigen, gal-3P, galectin3, L31P, LGALS-3, GAL 3, galactose-specific lectin 3, carbohydrate binding protein 35, IgE binding protein
HSD17B7	ENSP00000254521	HSD17B7, 3-ketosteroid reductase, Hydroxysteroid (17beta) dehydrogenase 7, PRAP
ALDH3B2	ENSP00000255084	ALDH8, aldehyde dehydrogenases, ALDH3B2
CCNA1	ENSP00000255465	cyclin A1, Ccna1, cyclinA1, Cyclin-A1, cyclin A 1

FABP4	ENSP00000256104	aP2, AP-2, adipocyte fatty acid-binding protein, adipocyte lipid-binding protein, fatty acid-binding protein-4, FABP 4, FABP4, ALBP, adipocyte fatty acid binding protein, adipocyte lipid binding protein, aFABP, HAP2, Adipocyte fatty-acid-binding protein, fatty acid-binding protein 4, AP 2, adipocyte-type fatty acid binding protein, A-FABP, adipocyte type fatty acid binding protein, fatty acid binding protein-4, Hap 2, fatty acid binding protein 4, adipocyte, fatty acid binding protein 4, adipocyte-fatty acid binding protein, adipocyte-type fatty acid-binding protein, Adipocyte-fatty acid-binding protein, Fatty-acid binding protein 4, FABP-4, fatty acid binding protein family, fatty acid-binding protein, adipocyte, Fatty Acid Binding Protein4, Adipocyte Fatty-Acid Binding Protein, adipocyte-fatty-acid-binding protein, Fatty-acid-binding protein 4, fatty-acid binding protein-4, fatty acid-binding protein family
RRAS2	ENSP00000256196	TC21, RRAS2, R-Ras2, related RAS viral oncogene homolog 2, Ras-related protein R-Ras2
MBD2	ENSP00000256429	MBD2, methyl CpG binding domain protein-2, NuRD complex, methyl-CpG-binding protein MBD2, methyl-CpG binding protein MBD2, dMTase, Methyl-CpG binding domain protein 2, methyl CpG-binding domain-containing, Methyl-CpG-binding domain protein-2, Mbd-2, methyl-CpG-binding domain protein 2, methyl CpG-binding domain protein 2, Demethylase, methyl CpG binding domain protein 2
CHL1	ENSP00000256509	NCAM, Chl1, neural cell adhesion molecule, N-CAM, cell adhesion molecule with homology to L1CAM, neural cell-adhesion molecule, neural-cell adhesion molecule, close homolog of L1, CHL-1, neural cell adhesion molecule L1-like protein
FST	ENSP00000256759	folistatin, activin-binding protein, activin binding protein
SLCO1B1	ENSP00000256958	LST-1, LST1, OATP-C, SLC21A6, OATP2, SLCO1B1, OATP1B1, solute carrier organic anion transporter family member 1B1, OATP-2, OATP 1B1, solute carrier organic anion-transporter family, member 1B1, solute carrier organic anion transporter family, member 1B1, OATPC
KRT82	ENSP00000257974	HB2, hHb2, HH-B2
GNS	ENSP00000258145	glucosamine 6-sulfatase, G6S, glucosamine-6-sulfatase, N-acetylglucosamine-6-sulfatase, N-acetylglucosamine 6-sulfatase, EC 3.1.6.14

BRIP1	ENSP00000259008	BACH1, BRIP1, BRCA1-associated C-terminal helicase 1, BRCA1-interacting protein C-terminal helicase 1, BRCA1 interacting protein C-terminal helicase 1, Fanconi anemia group J protein, Bach-1, BRIP-1, BRCA1 Interacting Protein C- terminal helicase 1
BLK	ENSP00000259089	Src family tyrosine kinases, B-lymphoid tyrosine kinase, blk, Src-family tyrosine kinases, B lymphoid tyrosine kinase, B lymphocyte kinase, B-lymphocyte kinase
IL1RN	ENSP00000259206	IL-1RA, IRAP, interleukin-1 receptor antagonist, IL-1RN, IL1RN, interleukin-1-receptor antagonist, IL1RAP, interleukin 1 receptor antagonist, icIL-1Ra, interleukin-1 receptor antagonist protein, interleukin-1--receptor antagonist, IL1Ra, IL-1 ra, IL-1-ra, IL 1ra, hIL-1Ra, intracellular interleukin-1 receptor antagonist, IL-1 inhibitor, IL- 1Ra, interleukin -1 receptor antagonist, IL1-RA, IL-1 RN, IL1-RN, interleukin-1 receptor-antagonist, Interleukin- 1 receptor antagonist, ic-IL-1ra, interleukin 1-receptor antagonist, inter-leukin-1 receptor antagonist, hIL1Ra, IL1 RN, IL-1RAP, IL-1Ra 3, interleukin-1receptor antagonist, interleukin 1-receptor-antagonist protein
CCN3	ENSP00000259526	NOVH, CCN3, Nephroblastoma overexpressed, nephroblastoma overexpressed gene, hccn3, nephroblastoma over-expressed gene, nephroblastoma over-expressed, Nephroblastoma-overexpressed, nephroblastoma-overexpressed gene, N ephroblastoma overexpressed
CCL27	ENSP00000259631	CTACK, ESkin, CCL27, ILC, cutaneous T cell-attracting chemokine, IL-11Ralpha-locus chemokine, cutaneous T-cell-attracting chemokine, CC chemokine ILC, cutaneous T cell- attracting chemokine, c-TAK, AIP, chemokine (C-C motif) ligand 27, A-LP, chemokine ligand 27
KIF11	ENSP00000260731	Eg5, KIF11, Kns1, 2 GM1, kinesin family member 11, kinesin-like 1, kinesin-like-1, Eg-5, Kinesin-like protein KIF11, KIF-11, hEg-5, 3ZCW
MSTN	ENSP00000260950	Gdf8, Myostatin, MSTN, GDF-8, Growth differentiation factor-8, growth differentiation factor 8, growth/differentiation factor-8
MIB1	ENSP00000261537	DIP-1, Mib1, Mib-1, mindbomb homolog 1, MIB- 1, MIB 1, Mindbomb E3 ubiquitin protein ligase 1, E3 ubiquitin-protein ligase mib1, Dip1
THOC1	ENSP00000261600	Hpr1, hHpr1, Thoc1, Hpr1p, hpr-1, p84N5, p84, hTREX84, HP-R1, THO complex 1

USP14	ENSP00000261601	T-G-T, USP14, ubiquitin-specific protease 14, Ubiquitin-specific protease-14, tg T, ubiquitin-specific peptidase 14, ubiquitin specific peptidase 14, tgT
FAT2	ENSP00000261800	FAT2, hFat2, MEGF1, FAT-2, protocadherin fat 2
SLC30A4	ENSP00000261867	SLC30A4, hZnT4, ZNT4, ZnT-4
SEMA7A	ENSP00000261918	CDw108, semaphorins, Sema7A, semaphorin K1, Semaphorin 7A, sema K1, H-Sema-L, Sema-K1, SEMAL, CD108, JMH blood group antigen, Semaphorin7A, semaphorin-7A, SEMA-7A
MSR1	ENSP00000262101	MSR1, macrophage scavenger receptor 1, SR-A, SCARA1, macrophage scavenger receptor types I and II, SR-AI, SR-AII, sRA, macrophage scavenger receptor-1, CD204, SRA-I, scavenger receptor class A member 1
ANXA13	ENSP00000262219	intestine-specific annexin, annexins, ANXA13, ANX13, annexin XIII, ANXA1 3, Annexin A13
YY1	ENSP00000262238	Yin Yang 1, YY1, UCRBP, Yin Yang-1, YY1 transcription factor, NF-E1, YY-1, NFE1, yin and yang 1, Yin-Yang 1, YY-1 transcription factor, Yin Yang1, Yin-Yang-1, Yinyang1, NFE-1
AXIN1	ENSP00000262320	AXIN1, Axin, Axin 1, Axin-1, axis inhibition protein 1, axis inhibition protein1
CREBBP	ENSP00000262367	CREB-binding protein, CREB binding protein, CREBBP, Cbp, c BP, RSTS1
ALG1	ENSP00000262374	Mt1, MAT1, ALG1, hALG1, MT-1, ALG-1, beta1, 4 mannosyltransferase, HMT-1, HMAT1, Hmat-1, GDP-Man:GlcNAc2-PP-dolichol mannosyltransferase, beta 1, 4-mannosyltransferase, mannosyltransferase-1, hMT1, Mat 1, chitobiosyldiphosphodolichol beta-mannosyltransferase
N4BP1	ENSP00000262384	N4BP1, NEDD4-binding protein 1
GNAO1	ENSP00000262494	Galphao, GNAO1, G alpha o, Galpha-o, guanine nucleotide-binding protein G(o) subunit alpha
PCSK2	ENSP00000262545	PC2, HPC2, PC-2, NEC-2, NEC2, PCSK2, SPC2, prohormone convertase 2, neuroendocrine convertase-2, Pc 2, Spc2p, proprotein convertase subtilisin/kexin type 2, Hpc-2, proprotein convertase subtilisin/kexin-type 2, prohormone convertase-2, proprotein convertase 2
MYDGF	ENSP00000262947	SF20, IL-25, chromosome 19 open reading frame 10, IL25, c19orf10, interleukin-25, Interleukin 25, Myeloid-derived growth factor, MYDGF
GNA15	ENSP00000262958	guanine nucleotide binding protein, guanine nucleotide-binding protein, Gna15, guanine-nucleotide-binding protein, guanine-nucleotide binding protein, GNBP

SLC17A6	ENSP00000263160	DNPI, VGLUT2, SLC17A6, hVGLUT2, VGLUT-2, vesicular glutamate transporter 2, vesicular glutamate transporter-2, vesicular glutamate transporter2
LY9	ENSP00000263285	Ly-9, CD229, Ly9, SLAMF3
PRKCG	ENSP00000263431	SCA14, PKC gamma, PRKCG, protein kinase C gamma, PKCgamma, protein kinase Cgamma, SCA-14, PKCG, PKC-gamma, Protein kinase C-gamma, SCA 14, PKC-G, Protein kinase C gamma type
PNO1	ENSP00000263657	RNA-binding protein, RNA binding protein, PNO1, RBP, hPno1, RNA binding-protein, RNA-binding protein PNO1, RNA-binding-protein
SELP	ENSP00000263686	P-selectin, granule membrane protein-140, CD62, selectin P, GMP-140, P selectin, CD62P, P-sel, SELP, granule membrane protein 140, granule-membrane protein 140, PADGEM, CD-62, CD 62, PSEL, selectin-P, selectin P (granule membrane protein 140 kDa, antigen CD62, CD62 P, 1 G1-S, CD62-P, GMP140
GRB14	ENSP00000263915	Grb14, GRB-14, growth factor receptor-bound protein 14
ARCN1	ENSP00000264028	ARCN1, archain, coatomer subunit delta, COPD human, SR-MMD
CBL	ENSP00000264033	c-cbl, Cbl, Cbl proto-oncogene, Cbl-2, CBL2, FRA11B, 2 cbl, oncogene CBL2, CBL2 p, proto-oncogene c-Cbl, Casitas B-lineage lymphoma proto-oncogene, 4a4b, E3 ubiquitin-protein ligase Cbl, 4a-4c, C-bl
CUL3	ENSP00000264414	Cul3, cullin 3, CUL-3, Cullin3, Cullin-3, CUL 3
NNT	ENSP00000264663	nicotinamide nucleotide transhydrogenase, Nnt
KLKB1	ENSP00000264690	PPK, KLKB1, plasma kallikrein, plasma prekallikrein, kallikreins, Fletcher factor, PKK, Klk3, KLK 3, hKLK3, p-KK, kallikrein B1
TP63	ENSP00000264731	P5-1, p63, TP63, tumor protein p63, p51, p73L, tumor protein 63, TP73L, chronic ulcerative stomatitis protein, CUSP, A-Is, transformation related protein 63, TP53L, Transformation-related protein 63, HP40, AI s
ANXA3	ENSP00000264908	lipocortin III, ANX3, annexin III, annexins, inositol 1, 2-cyclic phosphate 2-phosphohydrolase, placental anticoagulant protein III, ANXA3, annexin A3, 1 AII, Annexin 3
SUB1	ENSP00000265073	p15, p14, PC4, HPC4, 2 Phe, Pc 4, SUB1, HP-14, HPC-4, p 14, SUB1 homolog, positive cofactor 4, HP14, p 15
PAPSS1	ENSP00000265174	PAPSS1, PAPSS, EC 2.7.1.25, SK1, EC 2.7.7.4, Hsk1, SK-1, 3'-Phosphoadenosine 5'-phosphosulfate synthase 1

SRF	ENSP00000265354	serum response factor, serum-response factor, Srf, MCM1, serum-response-factor
PON3	ENSP00000265627	PON3, paraoxonases, paraoxonase-3, Paraoxonase 3, hPON3, EC 3.1.1.2, serum paraoxonase/lactonase 3, PON-3
CHKA	ENSP00000265689	choline kinase, Chka, cki, c-Ki, Ethanolamine kinase, CHK, choline kinase alpha, 2cKO, CKA, Choline kinase-alpha, ch-K
CDK6	ENSP00000265734	CDK6, cell division protein kinase 6, Cyclin-dependent kinase-6, cyclin-dependent kinase 6, CDK 6, PLSTIRE, cyclin dependent kinase 6, cyclindependent kinase 6
MAPKAP1	ENSP00000265960	MIP1, MIP-1, Mip1p, sin1, MAPKAP1, mTOR complex 2, hMIP-1, MAPK-AP-1, mTor-complex-2, mitogen-activated protein kinase associated protein 1, mTOR Complex-2, MAPK-AP1, Mitogen-activated protein kinase-associated protein 1
IDE	ENSP00000265986	Insulin-degrading enzyme, IDE, insulysin, EC 3.4.24.56, insulin degrading enzyme, Abeta-degrading protease
SLC5A4	ENSP00000266086	SGLT2, hSGLT3, SGLT3, SGLT 2, SLC5A4, SGLT-2, SGLT- 2, hSGLT2, SGLT-3, SAAT1
CBLN3	ENSP00000267406	Cbln3, cerebellin-3
SORD	ENSP00000267814	sorbitol dehydrogenase, SORD, SORD1
CYP11A1	ENSP00000268053	P450scc, CYP11A, CYP11A1, cytochrome P-450(SCC, P-450scc, cholesterol desmolase, P450 scc, CYPXIA1, P450-scc, cytochrome P450 11A1, cytochrome P450 family 11 subfamily A member 1
ARHGDIA	ENSP00000269321	Rho GDIalpha, Rho-GDI, arhgdia, RhoGDI, Rho GDP-dissociation inhibitor-alpha, Rho GDI, GDIA1, RhoGDIalpha, RhoGDI alpha, Rho GDP-dissociation inhibitor 1, Rho-GDI 1, Rho-GDP dissociation inhibitor (GDI) alpha, Rho GDI alpha, Rho-GDP dissociation inhibitor alpha, Rho GDP-dissociation inhibitor alpha, RhoGDI1, Rho GDP dissociation inhibitor alpha, Rho-GDIalpha, RhoGDIA, Rho GDP dissociation inhibitor 1, Rho-GDP dissociation inhibitor 1, Rho GDP-dissociation inhibitor-1
CBX4	ENSP00000269397	PC2, HPC2, Pc 2, PC-2, Cbx4, Hpc-2, Chromobox homolog 4, chromobox 4
TINAGL1	ENSP00000271064	TIN-ag-RP, Arg-1, Arg1, Lcn7, TINAGL1, Arg 1, Tubulointerstitial nephritis antigen-like 1
PSMA5	ENSP00000271308	proteasome zeta chain, proteasome subunit alpha type 5, PSMA5
CELSR2	ENSP00000271332	CELSR2, ADGRC2, cadherin EGF LAG seven-pass G-type receptor 2

SFRP2	ENSP00000274063	secreted Frizzled-related proteins, Sfrp2, sarp1, Secreted Frizzled-related protein 2, sFRP-2, secreted frizzled related proteins, secreted frizzled-related protein-2, secreted apoptosis-related protein 1, SFRP, FRP2, Secreted frizzled related protein 2, SDF-5, hSFRP2, FRP-2, hFRP-2
PHIP	ENSP00000275034	WDR11, pleckstrin homology domain-interacting protein, NDRP, DCAF14, pleckstrin homology domain interacting protein, PH-interacting protein, phIP
SLC2A12	ENSP00000275230	GLUT8, GLUT-12, GLUT12, SLC2A12, SLC2a-12
GNA12	ENSP00000275364	GNA12, NNX3, RMP, guanine nucleotide-binding protein alpha-12, gep
NONO	ENSP00000276079	p54, NONO, p54nrb, p54(nrb, non-POU domain containing octamer-binding, nmt55, 55 kDa nuclear protein, non-POU domain-containing octamer-binding protein, non-POU-domain-containing octamer-binding, non-POU domain-containing octamer binding protein, non-POU domain containing octamer binding, Non-POU-domain-containing octamer-binding protein, non-POU domain-containing octamer binding
DLC1	ENSP00000276297	Dlc-1, DLC1, HDL-C 1, ARHGAP7, deleted in liver cancer 1, p122 RhoGAP, hdlc1, p122RhoGAP, Hp protein, deleted in liver cancer-1, deleted in liver cancer1, DLC1 Rho GTPase-activating protein, rho GTPase-activating protein 7, DLC1 Rho GTPase activating protein, Deleted-in-liver cancer 1
PLIN2	ENSP00000276914	perilipins, ADRP, Adipophilin, adipose differentiation-related protein, ADFP, adipose-differentiation-related protein, perilipin 2, PLIN2, perilipin-2, adipose-differentiation related protein, Perilipin2, adipose differentiation related protein, Plin 2, PLIN-2
EI24	ENSP00000278903	ei24, PIG8, HepG4, Pig 8, etoposide-induced 2.4 mRNA, etoposide induced 2.4
SLC7A11	ENSP00000280612	xCT, cystine/glutamate transporter, SLC7a11, X CT, solute carrier family 7 member 11, x-CT
NOCT	ENSP00000280614	CCR4, N-Oct, Nocturnin, Ccrn4l, Ccr4p, Noct
NDUFC2	ENSP00000281031	NDUFC2, B14.5b, HLC-1
BMP3	ENSP00000282701	bone morphogenetic proteins, Bone morphogenetic protein-3, BMP-3, BMP3, osteogenin, bone morphogenetic protein 3, bone morphogenetic proteins, Bmp, BMP 3
CYP2C18	ENSP00000285979	EC 1.14.14.1, Cyp-2c, CYP2C18, CYP2C, CYP 2C, CYP2C-18

RBM45	ENSP00000286070	RB1, RB-1, Drb1, Rb 1, RBM45, Developmentally Regulated RNA-binding Protein 1, RNA-binding Motif Protein 45, RNA binding motif protein 45
CASP10	ENSP00000286186	caspase-10, CASP10, Mch4, FLICE2, CASP-10, caspase 10, death effector domain containing, Casp 10
FZD7	ENSP00000286201	FZD7, FzE3, Frizzled-7, Frizzled 7, Frizzled homolog 7, frizzled7, frizzled family receptor 7, FZD-7, frizzled class receptor 7
NAT2	ENSP00000286479	aac2, NAT2, N-acetyltransferase 2, polymorphic arylamine N-acetyltransferase, EC 2.3.1.5, arylamine N-acetyltransferase 2, N-acetyltransferase type 2, N-acetyltransferase-2, N-acetyltransferase-2, N-acetyl transferase 2, HNAT2, NAT-2, N-acetyltransferase 2, NAT 2, N-acetyltransferase2, arylamine-N-acetyltransferase 2, N-acetyl transferase2, Arylamine N-acetyltransferase-2, N-acetyl transferase type 2, N-acetyltransferase-2, N-acetyl-transferase 2, N-acetyltransferase 2 (arylamine N-acetyltransferase, Aac2p
ADK	ENSP00000286621	adenosine kinase, ADK, EC 2.7.1.20
ZFYVE9	ENSP00000287727	SARA, novel serine protease, Nsp, SMAD anchor for receptor activation, novel serine-protease, N-SP, ZFYVE9
FZD1	ENSP00000287934	frizzled-1, Wnt-receptor, FZD 1, FZD1, WNT receptor, frizzled 1, Frizzled1, FZD-1, frizzled class receptor 1
CCNB2	ENSP00000288207	Cyclin B2, CCNB2, cyclin-B2, cyclinB2
DUSP2	ENSP00000288943	PAC1, PAC-1, DUSP2, dual specificity phosphatase 2, dual-specificity phosphatase-2, dual-specificity phosphatase 2, DUSP-2, Dual-specificity-phosphatase-2, PAC 1
N	ENSP00000290277	A-RAF, A-raf-1, proto-oncogene A-raf-1, ARAF1, AR-AF-1, RAF family, hA-raf-1, AR AF-1, ARAF, AR-AF1, Pks2, AR AF1
IGF2BP1	ENSP00000290341	CRD-BP, ZBP1, coding region determinant binding protein, Igf2bp1, Imp1, IMP-1, coding region determinant-binding protein, Zipcode binding protein 1, hIMP1, IGF II mRNA-binding protein 1, zipcode-binding protein 1, Insulin-like growth factor 2 mRNA-binding protein-1, insulin-like growth factor 2 mRNA-binding protein 1, insulin-like growth factor 2 mRNA binding protein 1, insulin-like growth factor-2 mRNA-binding protein 1, IGF-2BP-1, IGF2BP 1, insulin like growth factor 2 mRNA binding protein 1, ZBP-1, VICKZ1, insulin-like growth factor-2 mRNA-binding protein-1

BMPR2	ENSP00000363708	PPH1, BMPR2, BMPR-II, BMPRII, bone morphogenetic protein receptor type II, bone morphogenetic protein receptor type 2, BMP-RII, bone morphogenetic protein receptor type-2, BMPR-2, BMP-R2, BMPR II, Bone morphogenetic protein receptor, type II, bone morphogenetic protein receptor type-II, BMPR2 p, t-ALK
ECE1	ENSP00000364028	ECE-1, ECE1, endothelin-converting enzyme 1, endothelin converting enzyme-1, endothelin-converting enzyme-1, hECE-1, Ece1p, endothelin converting enzyme 1, Endothelin converting-enzyme-1
TGFBR1	ENSP00000364133	TbetaRI, ALK-5, ALK5, TGFBR1, ESS1, TbetaR-I, TGF-beta type I receptor, activin receptor-like kinase 5, T beta R-I, TBRI, TGFbeta type I receptor, transforming growth factor beta receptor type I, TGF beta type I receptor, T beta RI, transforming growth factor-beta receptor type I, transforming growth factor beta receptor I, ESS-1, activin-receptor-like kinase-5, transforming growth factor beta-receptor 1, transforming growth factor beta receptor 1, transforming growth factor-beta receptor 1, TbetaR I, TGF-beta type-I receptor, activin receptor-like kinase-5, TGFBR-1, TGFR1, TGF-beta receptor type 1, transforming growth factor beta-receptor I, TGFB-R1, Activin receptor-like kinase5, TGF-beta receptor type-1, transforming growth factor-beta receptor I, Transforming Growth Factor B Receptor I
MAP3K20	ENSP00000364361	MLTKalpha, MRK, MLTKbeta, MLTK, mlt, MLK-like mitogen-activated protein triple kinase, MLK7, leucine zipper and sterile alpha motif-containing kinase, sterile alpha motif and leucine zipper containing kinase AZK, MAP3K20
PAX7	ENSP00000364524	Pax7, Pax-7, HuP1, paired boxes, paired box 7, Pax 7, paired-box 7
PADI4	ENSP00000364597	peptidylarginine deiminases, PADI4, PAD4, EC 3.5.3.15, peptidylarginine deiminase 4, peptidyl arginine deiminase 4, HL-60 PAD, pAD, peptidylarginine deiminase IV, PAD-4, PADI-4, Peptidyl arginine deiminase, type IV, Peptidyl arginine deiminases, peptidylarginine deiminase-4, Peptidyl arginine deiminase IV, Peptidyl arginine deiminase-4, 1WDA
PADI3	ENSP00000364609	PADI3, peptidylarginine deiminases, EC 3.5.3.15, peptidylarginine deiminase 3, Pad3, PAD-3, peptidyl arginine deiminases

PADI2	ENSP00000364635	peptidylarginine deiminases, EC 3.5.3.15, pad-2, peptidyl arginine deiminase 2, PAD2, peptidylarginine deiminase 2, Peptidyl argininedeiminase 2, PADI2, Peptidyl arginine deiminases, hPAD2, peptidylarginine deiminase-2, Peptidyl Arginine Deiminase, Type II
F7	ENSP00000364731	factor VII, coagulation factor VII, SPCA, proconvertin, factor-VII, EC 3.4.21.21, 3 Th2, coagulation factorVII, factorVII, SPC-A, Eptacog Alfa, 5 PAS
DLG2	ENSP00000365272	PSD-93, chapsyn-110, 2 by G, DLG2, DLG-2, PSD93, discs large MAGUK scaffold protein 2, Disks Large Homolog 2, discs large homolog 2
APBB1IP	ENSP00000365411	RARP1, RIAM, Rap1-GTP-interacting adaptor molecule, APBB1IP
FLOT1	ENSP00000365569	flotillin-1, flotillin 1, FLOT1, flotillin1, Flot-1
PSAT1	ENSP00000365773	PSAT, PSAT1, phosphoserine aminotransferase, NLS2, NLS-2, Psa, phosphoserine aminotransferase 1, PSA T
ANXA1	ENSP00000366109	annexin I, AnxA1, lipocortin I, annexins, annexin-1, Lpc1, annexin A1, phospholipase A2-inhibitory protein, annexin 1, Anx-1, p35p, annexin-I, annexin-A1, AnnexinA1, ANX1, Anx-A1, ANX A1, ANX - A1
CASZ1	ENSP00000366221	Casz1, survival-related gene, castor zinc finger 1
DFFA	ENSP00000366237	DFF45, DFFA, ICAD, inhibitor of CAD, DFF-45, h13
TRIM27	ENSP00000366404	rpf, RET finger protein, TRIM27, ret-finger protein, tripartite motif containing 27, TRIM 27, tripartite motif-containing protein 27, tripartite motif-containing 27, R-FP
POU4F1	ENSP00000366413	Brn-3a, RDC-1, RDC1, Brn3a, POU4F1, Pou domain, class 4, transcription factor 1, POU4F1 p
SLC2A5	ENSP00000366641	GLUT5, fructose transporter, SLC2A5, Glut-5, GLUT 5, solute carrier family 2 member 5
ERRFI1	ENSP00000366702	mig-6, Mig6, gene 33, RALT, ERRFI1, ERBB receptor feedback inhibitor 1, ERRFI-1, mitogen-inducible gene 6 protein, Gene33, ERBB receptor feedback inhibitor-1
POLR1E	ENSP00000367029	PAF53, POLR1E, P-Raf-1, p-Raf1, PR AF1
HES2	ENSP00000367065	HES2, AK091122
KCNAB2	ENSP00000367323	Kvbeta2, Kv beta 2, KCNA2B, Kvbeta 2, aldo-keto reductases, Kcnab2, aldoketoreductases, Kv beta2, potassium voltage-gated channel, shaker-related subfamily, beta member 2, KCNK2, aldoketo reductases

IL1RAPL1	ENSP00000368278	IL1RAPL1, IL1RAPL, MRX21, TIR-domain-containing, MRX10, IL1RAPL-1, TIR domain containing, Interleukin-1 Receptor Accessory Protein-Like 1, IL-1R8, TIR domain-containing, Interleukin-1-receptor accessory protein like 1, interleukin 1 receptor accessory protein-like 1, interleukin-1 receptor accessory protein like 1, MRX34, TIRdomain-containing, TIGIRR2, IL-1RAPL1, mental retardation, X-linked 21, IL1R8
DDX53	ENSP00000368667	cancer-associated gene, DDX53, cagE, C T26, cancer-associated gene
NAA16	ENSP00000368716	NAT2, NAT-2
NEDD9	ENSP00000368759	CasL, NEDD9, HEF1, p105, CAS2, Cas-L, enhancer of filamentation 1, Crk-associated substrate-related protein, CASS2, neural precursor cell expressed, developmentally down-regulated 9, Neural precursor cell-expressed, developmentally downregulated 9, neural precursor cell expressed, developmentally downregulated 9, neural precursor cell expressed developmentally down-regulated protein 9, neural precursor cell-expressed developmentally down-regulated protein 9, neural precursor cell expressed, developmentally-downregulated 9, neural precursor cell expressed developmentally downregulated protein 9, Neural precursor cell-expressed, developmentally-downregulated 9, neural precursor cell-expressed developmentally downregulated protein 9
HGSNAT	ENSP00000368965	TMEM76, HGSNAT, heparan-alpha-glucosaminide N-acetyltransferase, EC 2.3.1.78, transmembrane protein 76
STEAP4	ENSP00000369419	six transmembrane protein of prostate 2, STAMP2, Steap4, six-transmembrane protein of prostate 2, six transmembrane epithelial antigen of prostate 4, Six-transmembrane epithelial antigen of prostate4, TIARP, Six-transmembrane epithelial antigen of prostate 4, STEAP-4, TNFAIP9, SchLAH, seven chromosome locus associated with HCC
IFNB1	ENSP00000369581	IFN-beta, fibroblast interferon, IFNB, IFNbeta, interferon-beta, Ifnb1, IF-B, interferon beta, Interferon-beta 1, Ifb, IFN beta, interferon beta 1, interferon beta-1, interferon-beta1, Interferon beta1, IFN-b, Interferonbeta
RPS6	ENSP00000369757	40S ribosomal protein S6, rpS6, ribosomal protein S6, ribosomal-protein-S6

AKR1C4	ENSP00000369814	3 alpha-HSD, chlordecone reductase, Cdr, aldo-keto reductases, DD4, 3alpha-HSD, c11, aldoketoreductases, HAKRa, AKR1C4, 3 alpha HSD, aldoketo reductases, aldo-keto reductase family 1 member C4
AKR1C3	ENSP00000369927	DD3, aldo-keto reductases, HAKRb, prostaglandin F synthase, HAKR e, DDX, aldoketoreductases, DDH1, AKR1C3, DD 3, aldo-keto reductase family 1, member C3, 17-beta-hydroxysteroid dehydrogenase type 5, HSD17B5, aldoketo reductases, 17beta-hydroxysteroid dehydrogenase type 5, aldo-keto reductase family 1 member C3, DD-3, 1 S1P, aldo-keto reductase family1 member C3, DDH-1
SLC22A18	ENSP00000369948	TSSC5, HET, IMPT1, ORCTL2, SLC22A18, BWR1A, SLC22A1L, efflux transporter-like protein, solute carrier family 22 member 18, solute carrier family 22, member 18, h-ET
DDX1	ENSP00000370745	DDX1, DEAD box polypeptide 1, DEAD box protein 1
GNG7	ENSP00000371594	GNG7
CHEK2	ENSP00000372023	Cds1, hCHK2, Chk2, hCds1, RAD53, CHEK2, HuCds1, checkpoint kinase 2, Rad 53, CHEK 2, checkpoint kinase2, CDS-1, Chk-2, CHEK2 p, checkpoint kinase-2
RBMS3	ENSP00000373277	RNA-binding protein, RNA binding protein, RBMS3, RBP, RNA binding motif, single-stranded interacting protein 3, RNA binding-protein, RNA-binding-protein
KRT18	ENSP00000373487	CK18, CK 18, keratin 18, cytokeratin 18, KRT18, cytokeratin-18, CK-18, Cytokeratin18, K18 p, hK18, keratin-18, keratin18, k18, cytokeratin 1-8
AKT1S1	ENSP00000375711	PRAS40, mTOR complex 1, mTOR complex1, Akt1s1, mTOR complex-1, PRAS 40, AKT1 substrate 1, P-RAS40
ATG16L1	ENSP00000375872	Apg16L, ATG16L1, Atg16L, autophagy-related 16-like 1, autophagy related 16-like 1, ATG16L1 p, Autophagy-related 16 like-1, ATG16L-1, autophagy related 16 like 1, autophagy-related protein 16-1, autophagy related 16-like 1 (S. cerevisiae)
URI1	ENSP00000376097	RMP, NNX3, RPB5-mediating protein, unconventional prefoldin RPB5 interactor, URI1, RNA polymerase II subunit 5-mediating protein
GPS1	ENSP00000376167	Sgn1, gps1, 4D10, CSN1, GPS 1, G Protein Pathway Suppressor 1

TIRAP	ENSP00000376445	MAL, TIRAP, TIR-domain-containing adaptor protein, TIR-domain-containing, TIR domain-containing adaptor protein, MyD88 adapter-like, TIR domain-containing, TIR domain containing, Toll-interleukin-1 receptor domain-containing adaptor protein, Toll-interleukin 1 receptor domain containing adaptor protein, m AL, Toll-interleukin 1 receptor (TIR) domain containing adaptor protein, Toll-interleukin-1 receptor (TIR) domain-containing adaptor protein, Toll-interleukin 1 receptor domain-containing adaptor protein, TIRdomain-containing, MyD88 adapter-like protein, MyD88-adapter-like protein
PRIMA1	ENSP00000376848	PRiMA, membrane anchor of acetylcholinesterase, PRIMA1, prima-1, proline rich membrane anchor 1
NRF1	ENSP00000376924	NRF-1, Nrf1, alpha-Pal, nuclear respiratory factor 1, ewg, Nuclear respiratory factor-1, alpha -Pal, NRF 1
CNOT6	ENSP00000377024	CCR4, Ccr4a, cytoplasmic deadenylase, CNOT6, Ccr4p, CCR4-NOT transcription complex
NUMA1	ENSP00000377298	NuMA, nuclear mitotic apparatus protein, NUMA1, nuclear mitotic apparatus protein 1, nuclear-mitotic apparatus protein, NMP-22, NMP22, nuclear matrix protein 22
PC	ENSP00000377532	Pyruvate carboxylase, EC 6.4.1.1, pC201, PC-B, Pyruvate-Carboxylase
ANXA4	ENSP00000377833	ZAP36, ANX4, PP4-X, annexin IV, annexins, protein II, annexin 4, placental anticoagulant protein II, endonexin I, annexin A4, ANXA4, Anx A4, Annexin-4
PSAP	ENSP00000378394	prosaposin, SAP-1, sphingolipid activator protein-1, PSAP, SAP1, sphingolipid activator protein 1, PSA P, SAP 1, Sap1p, proactivator polypeptide, P-SAP
MATK	ENSP00000378485	LSK, MATK, megakaryocyte-associated tyrosine kinase, CHK, hyl, csk-type protein-tyrosine kinase, tyrosine kinase MATK, Csk-homologous kinase, hematopoietic consensus tyrosine-lacking kinase, Csk homologous kinase, ch-K
GPR135	ENSP00000378548	GPR135, PAF-R, PAFR
SULT1A3	ENSP00000378570	SULT1A3, TL PST, placental estrogen sulfotransferase, STP1, thermolabile phenol sulfotransferase, SULT1A4, ST1A5, M-PST, s-TM, sTM, MP-ST, hAST, SULT 1A3, Sulfotransferase 1A3, STP-1
SULT1A2	ENSP00000378992	P-PST, STP2, TS PST2, SULT1A2, STP-2
CAST	ENSP00000379157	calpastatin, c-AST, cAST, PLACK

CD59	ENSP00000379191	CD59, HRF20, 1F5, MEM-43, protectin, MIC11, membrane inhibitor of reactive lysis, MIRL, 1F5 antigen, MEM43, EJ-30, HM in 2, hCD59, CD59 p, CD59 glycoprotein, CD 59, MAC-inhibitory protein, MAC-IP, 20-kDa homologous restriction factor
BMP7	ENSP00000379204	bone morphogenetic proteins, Bmp7, BMP-7, OP-1, bone morphogenetic protein 7, bone morphogenetic protein-7, Hop1, osteogenic protein-1, 1 Bmp, BMP 7, osteogenic protein 1, Bone morphogenetic protein -7, bone morphogenetic proteins, hBMP7, Bone-morphogenetic protein-7, Bmp, oP1, BMP7-p, hop-1, BMP-7 human
MOB1A	ENSP00000379364	Mob1, Mats1, Mob-1, hMOB1, MOB1A
PRH2	ENSP00000379682	protein C, Dbs, PRH1, protein-C, proline-rich proteins, PRH2, parotid proline-rich protein, parotid acidic protein, PIFs
DKK3	ENSP00000379762	Dkk-3, RIG, hDkk-3, DKK3, Dickkopf-homolog 3, dickkopf homolog 3, Dickkopf-related protein 3, REIC, dickkopf WNT signaling pathway inhibitor 3, regulated in Glioma
ITGA4	ENSP00000380227	integrin alpha subunits, CD49d, integrin alpha-subunits, integrin subunit alpha 4, integrin alpha 4, integrin alpha4, IA-4, ITGA4, Integrin alpha-4, integrin, alpha 4
MB	ENSP00000380489	myoglobin, PVALB
MAP2K7	ENSP00000381070	MKK7, JNKK2, mitogen-activated protein kinase kinase 7, MAP2K7, MKK-7, MKK7 p, Mitogen-activated protein kinase kinase-7
GRIP1	ENSP00000381098	GRIP-1, GRIP, GRIP1, glutamate receptor interacting protein 1, glutamate receptor-interacting protein 1, glutamate receptor-interacting-protein 1, LGALS12, Glutamate Receptor Interacting Protein1, glutamate-receptor-interacting protein 1
CBS	ENSP00000381231	cystathionine-beta-synthase, Cystathionine beta-synthase, Cbs, cystathionine beta synthase, cystathionine beta--synthase, hip4, cystathionine-beta -synthase, cystathionine betasynthase, cystathionine-beta synthase, cystathionine beta synthase, 1JBQ
CBSL	ENSP00000381234	cystathionine beta synthase, cystathionine beta-synthase, Cbs, cystathionine beta--synthase, cystathionine-beta-synthase, hip4, EC 4.2.1.22, serine sulfhydrase, cystathionine-beta -synthase, cystathionine betasynthase, cystathionine-beta synthase, cystathionine beta synthase

MX1	ENSP00000381601	MxA, Hmx1, MX1, IFI-78K, MX-1, MX-1 human, interferon-regulated resistance GTP-binding protein MxA, myxovirus resistance protein 1, MX dynamin-like GTPase 1, MX dynamin like GTPase 1
YPEL3	ENSP00000381821	YPEL3, Yippee-like-3, Yippee-like 3
CTNND1	ENSP00000382004	p120, p120(ctn, p120 catenin, p120-catenin, p120cas, p120ctn, CTNND1, CTNND, p120 CTN, catenin delta 1, p120catenin, p 120 catenin, Catenin delta-1, p120-catenin family, p120 catenin family, p120-ctn
DLG4	ENSP00000382428	PSD-95, DLG4, PSD95, SAP90, hPSD95, post-synaptic density protein 95, postsynaptic density protein-95, postsynaptic density protein 95, Discs large homolog 4, Synapse-associated protein 90, discs, large homolog 4 (Drosophila, post-synaptic density protein-95, PSD 95
BACH1	ENSP00000382805	BACH1, ha2303, AF026200, BTB and CNC homology 1, basic leucine zipper transcription factor 1, BTB and CNC homolog 1, Bach-1, 2 IHC, BTB domain and CNC homolog 1
PLA2G2A	ENSP00000383364	PLA2G2A, PLA2s, Mom1, Mom-1, PLA2L, sPLA2, PIA2, Phospholipase A2 group IIA, group Ila phospholipase A2, phospholipase A2, group IIA, sPLA-2, phospholipase-A2 group IIA
HPSE	ENSP00000384262	Hpa1, hep, HPSE, Hpa, hHpr1, Hpa 1, hpr-1, HSE1, Hpr1, heparanase 1, HPA-1, heparanase-1, HPSE-1, HPSE1, HP-R1, HSE-1
ZGLP1	ENSP00000384434	glp-1, ZGLP1, glp1, GATA like protein-1, GLP 1
AKAP12	ENSP00000384537	gravin, SSeCKS, src-suppressed C-kinase substrate, Src-suppressed C kinase substrate, AKAP12, A-Kinase anchoring protein 12, A-kinase anchor protein 12, A-Kinase-Anchoring Protein 12, AKAP-12
ABCB5	ENSP00000384881	ABCB5 P, ABCB 5alpha, ABCB5, ATP-binding cassette protein, ABCB 5beta, ATP binding cassette protein, ABCB 5, ATP-binding cassette, sub-family B, member 5, ATP-binding cassette subfamily B member 5, ATP-binding cassette subfamily B, ATP-binding cassette sub-family B member 5, ATP binding cassette subfamily B member 5, ATP -binding cassette protein
SAA1	ENSP00000384906	SAA1, SAA2, SAA, serum amyloid-A-1, serum amyloid A1, serum amyloid A 1, SAA-1, hSAA1, s AA, serum amyloid A-1, serum amyloid A1 protein, SAA-2

FAH	ENSP00000385080	FAH, fumarylacetoacetase, fumarylacetoacetate hydrolase, fumaryl acetoacetate hydrolase, fumarylacetoacetate hydrolase, FA-H, EC 3.7.1.2, fumarylacetoacetate-hydrolase, fumarylacetoacetate hydrolase
NCOA1	ENSP00000385216	5q14, 5q12, SRC-1, steroid receptor coactivator 1, 5q13, NCOA1, 5q11, NCoA-1, SRC1, 5q15, F-SRC-1, Steroid Receptor Coactivator-1, 5-q14, 3-DCT, steroid receptor co-activator-1, steroid receptor co-activator 1, 2 Hb H, nuclear receptor coactivator 1, 3D-CT, hNCOA1, 3D CT, 3DCT, 4 mgC, 4mgC, 3-D CT
SAR1B	ENSP00000385432	SAR1B, SARA2, and--d, SAR1 homolog B, SARA--2
MAGI1	ENSP00000385450	MAGI-1, BAP1, AIP3, WWP3, MAGI1, membrane-associated guanylate kinase, WW and PDZ domain containing 1, BAP-1, AIP-3, HBAP1
GAL3ST1	ENSP00000385735	Gal3ST-1, cerebroside sulfotransferase, EC 2.8.2.11, galactose-3-O-sulfotransferase-1, GAL3ST1
PLEKHB2	ENSP00000385892	evectin-2, evt-2, 3 via
RMDN1	ENSP00000385927	regulator of microtubule dynamics 1, RMD-1, RMD1, FAM82B, family with sequence similarity 82, member B
MBD5	ENSP00000386049	Cdc37, MBD5, Mrd1p, methyl-CpG-binding domain protein 5, methyl CpG-binding domain-containing, methyl-CpG binding domain protein 5
SFTPB	ENSP00000386346	surfactant protein B, SP-B, PSP-B, SFTPB, pulmonary surfactant-associated protein B, SFTP3, pulmonary surfactant-associated proteolipid SPL(Phe, surfactant protein-B, Sftp-3, pulmonary surfactant associated protein B, pSPB
PSMD14	ENSP00000386541	pad-1, POH1, pad1, Rpn11, PSMD14, Pad1p, 26S proteasome non-ATPase regulatory subunit 14
CAND2	ENSP00000387641	TIP120B, TBP-interacting protein, CAND2
RARG	ENSP00000388510	RARG, retinoic acid receptor gamma, retinoic acid receptor-gamma, NR1B3, RARc
CASP4	ENSP00000388566	caspase-4, ICERelII, CASP4, ICERel-II, ICH-2, caspase 4, CASP-4, MIH1, caspase4
CHEK1	ENSP00000388648	Chk1, checkpoint kinase 1, CHEK1, chk1 homolog, CHK1 checkpoint homolog, cell cycle checkpoint kinase, cell-cycle checkpoint kinase, hCHK1, CHK-1, CHEK-1, check-point kinase 1, checkpoint kinase-1, Chk 1, 4 FTO, 3 TKI, Checkpoint kinase1, check point kinase 1, serine/threonine-protein kinase CHK1
EIF4B	ENSP00000388806	eIF-4B, eIF4B, eukaryotic translation initiation factor 4B

AKR1B15	ENSP00000389289	AKR1B15, aldo-keto reductases, aldoketoreductases, aldoketo reductases
PLEKHM1	ENSP00000389913	Plekhm1, HB2, AP162, Pleckstrin homology domain-containing family M member 1
PEX5	ENSP00000391601	Pex5p, PEX5, PTS1R, PXR1, peroxins, Pxr1p, Peroxisomal targeting signal-1 receptor, peroxin 5
BCAP31	ENSP00000392330	BAP31, BCAP31, DXS1357E, B-cell receptor-associated protein 31, Cdm, hp28, HP-28, c DM, BCAP 31, c-DM
CDC7	ENSP00000393139	huCdc7, Cdc7, Hsk1, HsCdc7, Cdc7p, CDC7L1, cell division cycle 7, cell division cycle 7 homolog, Cell division cycle-7, cell division cycle 7-related protein kinase
PLA2G10	ENSP00000393847	sPLA2, hGX sPLA2, sPLA2-X, sPLA-2, PLA2G10, GX-sPLA2
LPAR3	ENSP00000395389	EDG7, HOFNH30, LPA3, Edg-7, GPC-R, lysophosphatidic acid receptor 3, lysophosphatidic acid receptor-3, LPAR3, GPCR
URGCP	ENSP00000396918	URG4, Upregulated gene 4, Upregulator of cell proliferation, URGCP, up regulated gene 4, Up-regulated gene-4, up-regulator of cell proliferation, URG-4, Up-regulated gene 4, upregulated gene-4
SFTP1A1	ENSP00000397082	SP-A1, SPA-1, PSAP, collectins, PSP-A, SFTP1, Sftp-1, Sftpa, SFTP1A1, SFTP1A1B, PspA, surfactant protein A1, PSA P, hSP-A1, SPA1, HSPA1, surfactant protein-A1, P-SAP, sPA, SP A1
E2F5	ENSP00000398124	E2F-5, E2F transcription factors, E2F5, E2F transcription factor 5
ANXA11	ENSP00000398610	Annexin A11, ANXA11, annexin XI, ANX11, annexins
ERN1	ENSP00000401445	IRE1alpha, hIre1p, Ire1p, IRE1 alpha, inositol-requiring protein 1, Inositol requiring enzyme-1, Inositol-requiring enzyme 1, Inositol-requiring enzyme-1, IR-E1A, IRE1-alpha, inositol-requiring protein-1, inositol requiring enzyme 1, IRE1a, serine/threonine-protein kinase/endoribonuclease IRE1, 4U6R, IRE-1a
CLSTN2	ENSP00000402460	CLSTN2, CS-2, HCS-2, HCS2, calsyntenin-2, calsyntenin2
SMG1	ENSP00000402515	hSMG-1, SMG-1, SMG1, Atx, phosphatidylinositol-3-kinase-related kinase, phosphatidylinositol 3-kinase-related kinase, phosphatidylinositol 3-kinase related kinase, Phosphatidylinositol-3-kinase related kinase
PMEL	ENSP00000402758	p100, gp100, Pmel17, SILV, melanocyte protein Pmel 17, Pmel 17, ME20, ME20-M, D12S53E, Pmel, melanoma-associated ME20 antigen, gp-100, Pmel-17, hgp100, siL, ME 20, P1P, s-IL, Silver-like, premelanosome protein, melanocyte protein PMEL, Hgp 100, GP 100

GRB7	ENSP00000403459	Grb7, GRB-7, Grb7 adapter protein, hGrb7, growth factor receptor-bound protein 7, growth factor receptor bound protein 7, Growth factor receptor-bound protein-7, Growth factor receptor bound protein-7
ILF3	ENSP00000404121	NF90, DRBP76, NFAR-1, MPP4, Ilf3, NFAR, NFAR-2, nuclear factor associated with dsRNA, interleukin enhancer binding factor 3, double-stranded RNA-binding protein 76, ILF-3, Interleukin enhancer-binding factor 3, translational control protein 80, TCP80, NF110, MMP4, DR-Bf
RPL36A	ENSP00000404375	rpl36a, Mig6, mig-6, ribosomal protein L36a, RPL44, L36a, rp L44
OTUD4	ENSP00000409279	OTUD4, HIN-1, HIN1, OTU deubiquitinase 4
ARRB1	ENSP00000409581	beta-arrestin1, beta-arrestin 1, ARRB1, arrestin-2, arrestin 2, beta-arrestin-1, Arr1, arrestin-beta1, betaArrestin1, arrestin2, arr-1, arrestin beta 1
SYNJ1	ENSP00000409667	synaptojanin 1, SYNJ1, phosphoinositide 5-phosphatase, phosphoinositide-5-phosphatase, synaptojanin-1, synaptojanin1, PARK20, SYNJ1 p
SCN5A	ENSP00000410257	SCN5A, Nav 1.5, hHb1, HB-1, SSS1p, hHb2, PFHB1, Nav1.5, Hbbd, HB2, HB1, HH-B2, sodium channel, voltage gated, type V, alpha subunit, SCN5A-p, SCN5A p, sodium channel, voltage-gated, type V, alpha subunit, Sss1, sodium channel, voltage gated, type V alpha subunit, sodium voltage-gated channel alpha subunit 5, SCN5A_p, Cmpd2
SFRP4	ENSP00000410715	frpHE, secreted frizzled related proteins, secreted Frizzled-related proteins, sFRP4, FrzB-2, Secreted frizzled-related protein 4, sFRP-4, secreted frizzled-related protein-4, FRP-4, SFRP, FRP4, Secreted frizzled related protein 4, PYL
RPP14	ENSP00000412894	p14, Rpp14, HP-14, p 14, HP14
FBLIM1	ENSP00000416387	FBLP-1, migfilin, CAL, filamin-binding LIM protein-1, Ca-L, FBLIM1, filamin-binding LIM protein 1, FBLP1, filamin binding LIM protein1
EHMT1	ENSP00000417980	GLP-1, EHMT1, glp1, Eu-HMTase1, euchromatic histone-lysine N-methyltransferase 1, 5 VSD, euchromatic histone methyltransferase 1, 3 FPD, Glp, euchromatic histone methyltransferase-1, KMT1D, Euchromatic histone lysine methyltransferase 1, GLP 1
PARP14	ENSP00000418194	KIAA1268, PARP-14, poly(ADP-Ribose) polymerases, EC 2.4.2.30, BAL2, PARP14, poly (ADP-ribose) polymerases, 4-abl, poly (ADP ribose) polymerases, 3Q71, Poly(ADP-ribose) polymerase family member 14, ARTD8, Bal-2, 4 ABL

FTO	ENSP00000418823	alpha-ketoglutarate-dependent dioxygenase, FTO, fat mass and obesity-associated, fat mass and obesity associated, fat mass- and obesity-associated, fat mass-and obesity-associated, fat-mass and obesity-associated, fat-mass-and-obesity-associated, Fat mass and obesity-associated protein, fat mass and obesity- associated, fat mass- and obesity- associated, ALKBH9, alpha-ketoglutarate dependent dioxygenase
NDUFA6	ENSP00000418842	Hb1-4, cl-B14, NDUFA6, LYR-motif-containing
WWTR1	ENSP00000419465	TAZ, Wwtr1, transcriptional coactivator with PDZ-binding motif, transcriptional co-activator with PDZ-binding motif, WW domain containing transcription regulator 1, transcriptional coactivator with PDZ binding motif, WW domain-containing transcription regulator 1, Transcriptional co-activator with PDZ binding motif, WW domain-containing transcription regulator protein-1, WW domain-containing transcription regulator protein 1, WW-domain-containing transcription regulator protein 1, WW domain containing transcription regulator protein 1
KLF6	ENSP00000419923	KLF6, Zf9, PAC1, PAC-1, Kruppel-like factor 6, KLF-6, Kruppel-like factors, Bcd-1, BCD1, core promoter element binding protein, COPEB, CPBP, Kruppel like factor 6, ST-12, PAC 1
ERVW-1	ENSP00000419945	syncytin, envelope glycoprotein, Syncytin 1, syncytin-1, HERV-W env, Envelope protein, ERVWE1, HERV-Wenv, envelope-glycoprotein, HERV-W envelope protein, HERVWE1, HERV-WE1, HERV-W-Env, syncytin1, ERVW-1
KCNAB1	ENSP00000419952	aldo-keto reductases, Kv beta 1, KCNA1B, Kcnab1, aldoketoreductases, hKv beta 3, Kvbeta1, Kv beta1, aldoketo reductases
ZNF398	ENSP00000420418	ZER6, P5-1, p7-1, p71, p51
SLIT2	ENSP00000422591	SLIT2, slit-2, SLIT 2, slit homolog 2, slit homolog 2 (Drosophila, slit guidance ligand 2
ATG12	ENSP00000425107	Apg12p, Apg12, ATG12, hApg12p, ATG -12, hApg12, autophagy-related protein 12, Atg 12, Atg-12
RAD17	ENSP00000426191	hRad17, Rad17, rad24, Rad17Sp, HRAD 17, R24L, Rad 24
RNF4	ENSP00000426503	RNF4, SNURF, RING finger protein 4, RES4-26, Slx5, small nuclear RING finger protein
COX6C	ENSP00000428895	COX6C, cytochrome c oxidase subunit VIc
CYRIB	ENSP00000429150	FAM49B, family with sequence similarity 49 member B, L1P, BM009, HL -1

HDAC2	ENSP00000430432	RPD3, HDAC2, NuRD complex, Histone deacetylase 2, HD2, HDAC-2, SIN3 histone deacetylase complex, Rpd3p, histone deacetylase-2, HDAC 2, histone deacetylase2, EMSY Complex
IDO1	ENSP00000430950	IDO, IDO1, indoleamine 2, 3-dioxygenase 1, IDO-1, indoleamine-pyrrole 2, 3-dioxygenase, indoleamine 2, 3-dioxygenase-1, indoleamine 2, 3 dioxygenase 1, Indoleamine 2, 3 dioxygenase-1, indoleamine-2, 3-dioxygenase 1, IDO 1, indoleamine 2, 3-dioxygenase1, indoleamine-pyrrole-2, 3-dioxygenase, indoleamine-2, 3-dioxygenase1, indoleamine-2, 3-dioxygenase-1, indoleamine 2, 3-dioxygenase 1, indoleamine 2, 3-dioxygenase-1, indoleamine 2, 3 -dioxygenase 1, indoleamine-2, 3 dioxygenase 1, hIDO1
EID1	ENSP00000431162	C15orf3, E1A-like inhibitor of differentiation 1, EID-1, EID1, E1A-like inhibitor of differentiation-1, CRI1, CRI-1, CREBBP/EP300 inhibitory protein 1, EP300 interacting inhibitor of differentiation 1
API5	ENSP00000431391	AAC-11, apoptosis inhibitor-5, API-5, apoptosis inhibitor 5, API5, Apoptosis inhibitor5
CAPN1	ENSP00000431984	calpain 1, CANP, muCANP, calpain-1, CAPN1, calpain1
SPTBN2	ENSP00000432568	SCA 5, SCA5, beta-III spectrin, SPTBN2, betaIII spectrin, GTRAP41, Beta III spectrin, KIAA0302, beta-III-spectrin, FJ811850, spectrin, beta, nonerythrocytic 2, SCAR14, 1WYQ, 1WJM, SPTBN2 p, SCA-5
TEAD1	ENSP00000435233	Ref-1, TEF1, TEF-1, Tead1, ref1, Ref 1, TEF 1, TEA domain family member 1, transcription factor 13, TEA domain transcription factors, TEA domain transcription factor 1, hTEF-1
ENO2	ENSP00000437402	neuron-specific enolase, NSE, ENO2, Enolase-2, neuron specific enolase, gamma-enolase, neuron-specific-enolase, enolase 2, neuronspecific enolase, neuron-specific enolase
FZD3	ENSP00000437489	FZD3, frizzled-3, Frizzled 3, Frizzled3, Frizzled homolog 3, FZ3
NFE2	ENSP00000439120	p45, NF-E2, p45 NF-E2, p45-NF-E2, Nfe2, p45 NFE2, nuclear factor, erythroid 2, NFE2 p
PDYN	ENSP00000440185	Prodynorphin, dynorphin, PDYN, preproenkephalin B, preprodynorphin, SCA23, leu-enkephalin, pre-proenkephalin B, Ad-CA, pre-proenkephalin-B, AdcA, Spinocerebellar Ataxia 23
DDX11	ENSP00000440402	CHLR1, DDX11, CHL1, hCHLR1, Chl1p, CHL-1

CCR3	ENSP00000441600	CCR3, CC CKR3, eosinophil eotaxin receptor, CKR-3, CCR-3, CC-CKR3, CMKBR3, hCCR-3, chemokine receptor-3, chemokine receptor 3, chemokine (C-C motif) receptor 3, C-C chemokine receptor type 3, CC chemokine receptor type 3, C-C motif chemokine receptors
LPAR2	ENSP00000443256	EDG4, LPA2, Edg-4, lysophosphatidic acid receptor-2, LPA 2, Lysophosphatidic acid receptor 2, LPAR2
FKBP5	ENSP00000444810	51-kDa FK506-binding protein, FKBP5, FKBP51, p54, PPIase, rotamase, 5 DIV, FKBP-51, FK506-binding protein 5, FK 506 binding protein 5, FK506 binding protein 5, Hsp90-binding immunophilin, FKBP-5, FK-506 binding protein 5, peptidyl-prolyl cis-trans isomerase FKBP5, 51 kDa FK506-binding protein
LDHA	ENSP00000445175	Ldh-1, LDH M, LDHA, lactate dehydrogenase A, LDH A, EC 1.1.1.27, lactate dehydrogenase-A, LDH-A, LDH-M, Ldh1, L-lactate dehydrogenase A chain
PCSK5	ENSP00000446280	PC5, PCSK5, PC6, SP-C6, PC6A, proprotein convertase subtilisin/kexin type 5, PC-6a, PC-5, PC-6, PC 5, PC 6, proprotein convertase subtilisin/kexin type 5
TPCN1	ENSP00000448083	TPC-1, TPC1, TPCN1, TPC1 human, TPC-1 human
SLC38A1	ENSP00000449756	hATA1, SAT1, NAT2, Sat-1, SNAT1, ATA1, hsat-1, SLC38A1, NAT-2, Sodium-coupled neutral amino acid transporter 1, solute carrier family 38, member 1, System A amino acid transporter1, solute carrier family 38 member 1, SAT 1
DNAL1	ENSP00000452037	LC1, DNAL1, HLC-1, LC-1
LDLR	ENSP00000454071	fH C, fHC, 3 BPs
ITGAX	ENSP00000454623	CD11c, integrin alpha-subunits, Leu M5, integrin alpha subunits, integrin alphaX, LeuM5, ITGAX, Integrin alpha x, Leu-M5, CD-11c
MLST8	ENSP00000456405	GbetaL, mLST8, mTOR complex 1, mTOR complex 2, mammalian lethal with SEC13 protein 8, mTor-complex-2, mTOR complex-1, mTOR complex-2, POP3, LST8, MTOR complex1, WAT-1
CTRL	ENSP00000458537	chymotrypsin-like, CTRL-1, chymotrypsinlike, CTRL1, ctrl, chymotrypsin like
DPEP2	ENSP00000458977	Mbd2, Mbd-2, EC 3.4.13.19, Dpep2
USP6	ENSP00000460380	Tre2, tre, HRP-1, Tre-2, tre-2 oncogene, USP6, TRE17, HRP1, ubiquitin-specific protease 6, ubiquitin-specific peptidase 6, ubiquitin specific peptidase 6

YES1	ENSP00000462468	c-Yes, YES1, Src family tyrosine kinases, proto-oncogene c-yes, tyrosine protein kinase yes, Src-family tyrosine kinases, Yes-1, YES proto-oncogene 1, Src family tyrosine kinase
OAZ2	ENSP00000463013	Az2, ornithine decarboxylase antizyme 2, OAZ2, A-Z2
NCOA4	ENSP00000463027	ELE1, PTC3, PTC-3, NCOA4, ARA70, nuclear receptor coactivator 4, PTC 3, nuclear receptor co-activator 4, Ret-activating protein ELE1, nuclear receptor coactivator-4, ARA-70
RBP3	ENSP00000463151	RBP3, IRBP, interstitial retinol-binding protein, interphotoreceptor retinoid-binding protein, Rbp-3, interstitial retinol binding protein, interphotoreceptor retinoid binding protein, interstitial retinol-binding protein 3, inter-photoreceptor retinoid binding protein, retinol binding protein 3
NBPF10	ENSP00000463957	Ag1, Ag-1, HAG-1, AG -1, Ag 1, NBPF10
SLC16A3	ENSP00000463978	MCT3, MCT4, solute-carrier family 16, member 3, SLC16A3, Monocarboxylate transporter 4, MCT-4, MCT-3, monocarboxylate transporter-4, Solute Carrier Family 16 Member 3
ELANE	ENSP00000466090	neutrophil elastase, ELA2, HLE, elastase 2, leukocyte elastase, Elane, human leukocyte elastase, Scn 1, medullasin, EC 3.4.21.37, bone marrow serine protease, hNE, elastase-2, PMN elastase, ELA-2, SCN1, PMN-elastase, ELA 2, Elastase-2, neutrophil, elastase, neutrophil-expressed, elastase, neutrophil expressed, PMNE
HSD17B1	ENSP00000466799	17BetaHSD, 17 beta-HSD, EDH17B2, 20 alpha-hydroxysteroid dehydrogenase, 20 alpha-HSD, HSD17B1, EDH17B1, 17beta-HSD, 17Beta-hydroxysteroid dehydrogenase type 1, 17-beta-HSD, 17 beta HSD, 20 alpha HSD, 20alphaHSD, 20alpha-HSD, 17-beta-hydroxysteroid dehydrogenase type 1, 17beta-hydroxysteroid dehydrogenase type1, HSD17, 20alpha-hydroxysteroid dehydrogenase, 17 beta hydroxy steroid dehydrogenase type 1, hydroxysteroid dehydrogenase 1, Hydroxysteroid dehydrogenase-1, 17 beta-hydroxysteroid-dehydrogenase type 1, Hydroxysteroid (17-beta)dehydrogenase 1, hydroxysteroid-dehydrogenase 1, Hydroxysteroid dehydrogenase - 1, 17 beta-hydroxysteroid dehydrogenase type 1
RAD23A	ENSP00000467024	hHR23A, RAD23A, HR23A

SAFB	ENSP00000467423	SAF-B, SAFB1, hap, hET, scaffold attachment factor B, SAFB, Hsp27 ERE-TATA binding protein, scaffold attachment factor-B, Hsp27-ERE-TATA-binding protein, Scaffold attachment factor B1, h-ET
TAZ	ENSP00000469981	Taz1, TAZ, G4.5, tafazzin, Taz1p, XAP2, CMD3A, Efe2
FGF21	ENSP00000471477	FGF-21, Fibroblast growth factor 21, FGF21, Fibroblast growth factor-21, hFGF-21, fibroblast-growth factor 21, FGF 21, fibroblast growth factor21
H2AC19	ENSP00000475814	H2A, H-2a, H2A.2, H2-A
FRK	ENSP00000476145	Src family tyrosine kinases, RAK, Fyn-related kinase, FRK, Src-family tyrosine kinases, fyn-related Src family tyrosine kinase, fyn related kinase, Fynrelated kinase
ANAPC10	ENSP00000478501	Doc1, APC10, doc-1, 5K-Hu, anaphase promoting complex subunit 10
P3H3	ENSP00000478600	protein B, GRCB, Leprel2, proteinB, protein-B
DDX6	ENSP00000478754	RCK, p54, DDX6, DEAD-box helicase 6
FMN1	ENSP00000479134	Formin, formin-1, Fmn1, Fmn, Formin1, Formin 1, Fmn 1
PRH1	ENSP00000479168	protein C, protein-C, Dbs, PRH1, proline-rich proteins, PRH2, parotid acidic protein, PIFs
ADORA2A	ENSP00000480012	ADORA2, ADORA2A, adenosine A2a receptor, A2aR, adenosine receptor A2A, 1 mm H, adenosine A2A-receptor, A2A R, A2 A R, SPECC1L-ADORA2A, adenosine-A2A receptor
ANXA8L1	ENSP00000480221	VAC-beta, annexins
CYFIP1	ENSP00000481038	SR-A1, Sra-1, specifically Rac1-associated protein-1, CYFIP1, Sra1, KIAA0068, p140Sra-1, cytoplasmic FMR1 interacting protein 1, Cytoplasmic FMR1-interacting protein 1, cytoplasmic FMRP-interacting protein 1, Cytoplasmic FMRP interacting protein 1
SPRY1	ENSP00000481675	Sprouty, Spry1, hSpry1, SPRY-1, Sprouty RTK signaling antagonist 1
NEFL	ENSP00000482169	NF-L, NEFL, neurofilament light, NFL, NF68, Intermediate filaments type IV, neurofilament-light, neurofilament light polypeptide, NF--L, neurofilament, light polypeptide
DHRS11	ENSP00000482704	17 beta-hydroxysteroid dehydrogenase, 17beta-hydroxysteroid dehydrogenase, 17-beta-hydroxysteroid-dehydrogenase, estradiol 17 beta-dehydrogenase, 17-beta-hydroxysteroid dehydrogenase, 17 beta hydroxysteroid dehydrogenase, 17betahydroxysteroid dehydrogenase, 17-beta hydroxysteroid dehydrogenase
PADI6	ENSP00000483125	PADI6, EC 3.5.3.15, peptidylarginine deiminases, PAD-6, peptidyl arginine deiminases, PAD6

ADCYAP1R1	ENSP00000483721	PAC1, PAC-1, ADCYAP1R1, PACAP receptor 1, vasoactive intestinal peptide receptor family, PAC1-R, PAC1 R, pituitary adenylate cyclase-activating polypeptide type 1 receptor, PAC1R, pituitary adenylate cyclase-activating polypeptide type-1 receptor, adenylate cyclase activating polypeptide 1 (pituitary) receptor type I, PAC 1, PAC1p
IKBK	ENSP00000483825	NEMO, IKKgamma, IKK gamma, HIP1, IKBKG, Hip-2, Hip-1, NF-kappaB essential modifier, NF-kappaB essential modulator, IP1, IP2, FIP-3, FIP3, IKK-gamma, NF-kappa B Essential Modulator, NFkappaB essential modulator, inhibitor of nuclear factor kappaB kinase subunit gamma, NF- kappa B essential modulator, IKKAP1, inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma, IP-1, inhibitor of kappa light polypeptide gene enhancer in B cells, kinase gamma, HIP2, IKKG, NF-kappa-B essential modulator, inhibitor of nuclear factor kappa-B kinase subunit gamma
PCGEM1	PCGEM1	PCGEM1, PCAT9
PVT1	PVT1	PVT1, pvt-1, Pvt 1
HCP5	HCP5	p51, P5-1, HCP5
MIR1225P	hsa-miR-122-5p	miR-122, miR-122a, hsa-mir-122, miR122, Mir122a, hsa-miR-122-5p, miR-122-5p, miR-122--a, miR122-5p
MIR1243P	hsa-miR-124-3p	miR-124, miR124a, miR-124a, miR 124a, miR 124, Hsa-miR-124a, hsa-miR-124, hsa-mir-124-3p, miR124, miR-124-3p, miR - 124a, miR124-a, hsa-mir124, MIR124-3p, miR-124- 3p
MIR1455P	hsa-miR-145-5p	mir-145, miR145, hsa-miR-145, miR- 145, miR 145, miR-145-5p, hsa-miR-145-5p, miR145-5p
MIR181A5P	hsa-miR-181a-5p	miR-181a, hsa-mir-181a, miR-181-a, miR181a, miR 181a, Hsa-miR-181a-5p, MiR-181a-5p, miR-181a5p
MIR217	hsa-miR-217	miR-217, hsa-miR-217, MIR217
MIR315P	hsa-miR-31-5p	miR-31, hsa-miR-31, hsa-mir -31, MIR31, miR-31-5p, hsa-miR-31-5p, miR31-5p, hsa-miR31-5p, hsa-miR31 -5p, miR- 31
MIR3693P	hsa-miR-369-3p	miR369, miR-369, hsa-mir-369, hsa-miR369-3p, miR-369-3p, miR369-3p
MIR3795P	hsa-miR-379-5p	miR-379, hsa-miR-379, miR379, miR-379-5p
MIR5703	hsa-miR-5703	miR-5703

**TABLE S5: GENE/PROTEIN NAMES
ASSOCIATED WITH INFLUENZA**

ABCA1
 ABCA3
 ABCB1
 ABL1
 AC007283.5
 AC015849.2
 ACE
 ACE2
 ACKR2
 ACKR3
 ACP2
 ACP3
 ACTA1
 ACTC1
 ACTG1
 ACTG2
 ADAM11
 ADAMTS7
 ADAR
 ADCY1
 ADGRL2
 ADM
 ADM2
 AGA
 AGO1
 AGO2
 AGTR1
 AHSA1
 AHSG
 AICDA
 AIFM1
 AIM2
 AIMP2
 AIP
 AKT1
 ALB
 ALDH16A1
 ALDH18A1
 ALDH1A1
 ALDH1A2
 ALDH1A3

ALDH1B1
ALDH1L1
ALDH1L2
ALDH2
ALDH3A1
ALDH3A2
ALDH3B1
ALDH3B2
ALDH4A1
ALDH5A1
ALDH6A1
ALDH7A1
ALDH8A1
ALDH9A1
ALK
ALYREF
AMOT
AMOTL1
AMOTL2
AMPH
ANKRD36B
ANP32A
ANP32B
ANPEP
ANXA1
ANXA2
ANXA5
ANXA6
ANXA7
AP2M1
APAF1
APCS
APEX1
API5
APOE
APOL2
APP
ARCN1
AREG
ARF3
ARG1
ARG2
ARHGAP21

ARHGEF7
ARNTL
ASCC1
ASNS
ASZ1
ATF3
ATG14
ATG5
ATG7
ATM
ATOH1
ATP12A
ATP4A
ATP7A
AURKAIP1
AZU1
B3GAT1
B3GNT3
B4GALNT2
BACE1
BACE2
BACH2
BAMBI
BANF1
BBOX1
BCAM
BCAT2
BCL2L2
BCL2L2-PABPN1
BCL6
BCL6B
BDNF
BECN1
BGN
BIRC3
BLOC1S3
BLOC1S5
BPIFA1
BSG
BST2
BZRAP1-AS1
C1D
C1QBP

C3
C5
C5AR1
C6orf47
C8orf44-SGK3
CADM1
CALCOCO2
CALM1
CALM2
CALM3
CALR
CAMKMT
CAMP
CAP1
CASD1
CASP1
CASP3
CASP8
CASP9
CAV1
CBX8
CCL11
CCL17
CCL2
CCL20
CCL22
CCL25
CCL28
CCL3
CCL4
CCL4L2
CCL5
CCL7
CCNA1
CCND3
CCNT1
CCR1
CCR3
CCR5
CCR7
CCR9
CD14
CD163

CD19
CD1A
CD1B
CD1C
CD1D
CD1E
CD2
CD209
CD248
CD27
CD274
CD276
CD28
CD33
CD4
CD40
CD40LG
CD44
CD46
CD55
CD59
CD69
CD7
CD70
CD80
CD81
CD86
CD8A
CD9
CDC25B
CDC42
CDH1
CDK1
CDK11A
CDK13
CDK5R1
CDK9
CDKN1A
CEACAM1
CEACAM6
CEBPB
CENPV
CEP70

CES1
CFDP1
CFL1
CFLAR
CFP
CFTR
CGAS
CHD6
CHD7
CHKB
CHMP4A
CHMP4B
CHP1
CHRM1
CISH
CKAP4
CLDN1
CLDN7
CLEC5A
CLEC7A
CLEC9A
CLK1
CNBP
CNOT4
COASY
COL11A1
COL11A2
COL1A1
COL2A1
COL3A1
COLEC10
COLEC11
COLEC12
COQ7
CPSF4
CPT2
CREB1
CREBBP
CRK
CRMP1
CRP
CRPPA
CSF1

CSF2
CSF2RA
CSF2RB
CSF3
CSRP1
CTCF
CTD-2639E6.9
CTHRC1
CTSB
CTSE
CTTN
CXCL1
CXCL10
CXCL12
CXCL8
CXCL9
CXCR1
CXCR2
CXCR3
CXCR4
CXCR5
CXCR6
CYBB
CYCS
CYLD
DAND5
DAPK2
DCTN2
DCTN4
DCTN6
DDIT4
DDR1
DDX1
DDX21
DDX39B
DDX3X
DDX41
DDX56
DDX58
DDX6
DDX60
DEFA1
DEFA1B

DEFA5
DEFB1
DEFB103A
DEFB103B
DENR
DGCR8
DHFR
DHRS2
DHX30
DHX36
DHX58
DHX9
DIAPH1
DICER1
DIRAS1
DISC1
DKK3
DLAT
DLL1
DMBT1
DNAJB1
DNM1L
DNMT1
DNMT3A
DNMT3B
DOT1L
DPEP2
DPF2
DPP4
DR1
DROSHA
DTNBP1
DUOX2
DUSP4
DYNC1LI1
DYNC1LI2
DYNLL1-AS1
DYRK3
E2F1
EEF1G
EGF
EGFR
EGOT

EHMT1
EIF2AK2
EIF2AK3
EIF4A1
EIF4A2
EIF4E
EIF4G1
EIF4G2
ELANE
ELF1
ENAH
ENC1
ENO1
ENPEP
EPCAM
EPG5
EPHA6
EPRS1
EPS8
EPX
ERBB2
ERBB3
ERN1
ERVW-1
ESR1
EXOSC10
EZH2
F2R
F2RL3
F3
F5
FABP5
FADD
FANCB
FAS
FASLG
FBXW11
FCAR
FCGR1A
FCGR2A
FCN1
FCN2
FER

FEZ1
FFAR2
FGF13
FGF2
FGF5
FGF7
FGFR1
FGFR2
FGFR4
FKBP10
FKBP1A
FKBP1B
FKBP3
FKBP4
FKBP5
FKBP6
FKBP7
FKBP9
FMR1
FN1
FOLH1
FOS
FOSB
FOXO1
FOXP3
FPR2
FURIN
FUT2
FYN
GABPA
GAD2
GAL
GALNS
GALNT15
GALNT3
GALNT7
GAPDH
GAST
GATA2
GATA3
GATD3A
GATD3B
GBP1

GBP5
GEM
GEMIN4
GINS4
GLDC
GLI1
GLRX
GNAQ
GOLPH3
GORASP1
GPI
GPRC5A
GPS1
GPT
GRAP2
GRK2
GRM5
GRN
GRP
GRSF1
GTF2H1
GZMA
GZMB
H1-2
H3-2
HAAO
HAMP
HAP1
HAVCR2
HAX1
HCN2
HCRT
HCRTR2
HDAC1
HDAC11
HDAC2
HDAC4
HDAC6
HDAC8
HEATR6
HECW1
HERC5
HERPUD1

HES1
HEY2
HIF1A
HIF1AN
HK2
HLA-A
HLA-B
HLA-C
HLA-DPA1
HLA-DPB1
HLA-DQA1
HLA-DQA2
HLA-DRB1
HLA-G
HMGB1
HMGCR
HMOX1
HMOX2
HNRNPC
HNRNPK
HOOK2
HOXD13
HP
HPD
HRAS
HSP90AA1
HSPA14
HSPA1A
HSPA1B
HSPA4
HSPA8
HSPD1
HTR2A
ICAM1
ICOS
ID1
ID2
IDO1
IFI27
IFI35
IFIT1
IFIT5
IFITM1

IFITM10
IFITM2
IFITM3
IFITM5
IFNA1
IFNA13
IFNA17
IFNA2
IFNA21
IFNA4
IFNA5
IFNA6
IFNA7
IFNAR1
IFNAR2
IFNB1
IFNG
IFNGR1
IFNL1
IFNL2
IFNL3
IFNLR1
IGF1
IGF2BP1
IGFBP3
IKBKB
IKBKG
IL10
IL10RA
IL10RB
IL13
IL15
IL17C
IL17D
IL17F
IL17RA
IL17RC
IL18
IL18BP
IL18R1
IL18RAP
IL1A
IL1B

IL1RAPL1
IL1RL1
IL1RL2
IL1RN
IL2
IL22
IL22RA1
IL22RA2
IL24
IL27RA
IL2RA
IL3
IL32
IL33
IL37
IL3RA
IL4
IL5
IL5RA
IL6
IL6R
IL6ST
IL7
IL7R
ILF3
INS
IPO5
IRAK1
IRAK3
IRF1
IRF3
IRF4
IRF5
IRF7
IRF9
ISG20
ISYNA1
ITGA1
ITGAE
ITGAM
ITGAX
ITPKB
IVNS1ABP

JAG1
JAG2
JAK1
JAK3
JCHAIN
JUN
JUNB
JUND
KARS1
KAT2A
KAT2B
KCNA1
KCNA5
KCNH4
KCNH8
KDM1A
KDM6A
KEAP1
KEL
KHDRBS1
KIF13A
KIF2A
KIR2DL1
KIR2DL3
KIR2DL4
KIR3DL1
KIR3DL2
KIR3DL3
KLF2
KLF6
KLK1
KLK2
KLK3
KLK4
KLK5
KLRB1
KLRC1
KLRC2
KLRD1
KLRG1
KMO
KPNA1
KPNA2

KPNA3
KPNA4
KRAS
KRIT1
KRR1
KRT10
KRT14
KRT5
LAG3
LAMP1
LANCL2
LARGE1
LBR
LEP
LET7B5P
LET7C5P
LET7E5P
LGALS1
LGALS3
LGALS9
LILRA6
LILRB1
LINC01587
LLGL1
LPO
LRP1
LRPPRC
LRRC3
LTA
LTF
LY75
LY96
LYAR
LZTS1
MAF
MAN2A1
MAP2K1
MAP2K3
MAP2K4
MAP2K6
MAP3K1
MAP3K19
MAP3K5

MAP3K7
MAPK1
MAPK14
MAPK3
MAPK8
MAPKAP1
MARK2
MAVS
MBD2
MBL2
MBP
MBTPS1
MCRS1
MCU
MDK
MDM2
MECP2
MED12
MED15
MED25
MET
MFSD2A
MGAT1
MICB
MIF
MIR1
MIR107
MIR1243P
MIR1249
MIR1254
MIR12541
MIR125A5P
MIR1260A
MIR1275
MIR1290
MIR13073P
MIR1323P
MIR1365P
MIR1443P
MIR146A5P
MIR146B5P
MIR1493P
MIR1555P

MIR155HG
MIR15A5P
MIR181C5P
MIR1825P
MIR184
MIR1873P
MIR1925P
MIR193B3P
MIR1941
MIR1945P
MIR198
MIR200A3P
MIR200C3P
MIR203A
MIR2045P
MIR206
MIR20A5P
MIR213P
MIR2233P
MIR223P
MIR243P
MIR29A3P
MIR29B3P
MIR29C3P
MIR302A3P
MIR315P
MIR320A
MIR323A3P
MIR326
MIR3283P
MIR3405P
MIR34A5P
MIR34C5P
MIR4514
MIR451A
MIR4833P
MIR4865P
MIR4915P
MIR5053P
MIR5091
MIR548D3P
MIR5845P
MIR5903P

MIR6545P
MIR664A3P
MIR7445P
MIR75P
MLANA
MLKL
MME
MMP13
MMP2
MMP9
MOGAT1
MOV10
MPO
MPRIP
MR1
MRC1
MRS2
MSR1
MST1
MT-CO2
MTOR
MTTP
MUC1
MUC13
MUC15
MUC16
MUC5AC
MUC5B
MX1
MX2
MYD88
MYO5B
MYOM2
NANOS2
NAT2
NCAM1
NCL
NCR1
NCR2
NCR3
NDFIP1
NDUFA2
NECTIN2

NEDD4
NEDD8
NEK3
NEK7
NEK8
NEK9
NELFCD
NEU2
NFE2L2
NFIA
NFKB1
NFKBIB
NFKBIL1
NLRC4
NLRC5
NLRP12
NLRP3
NLRX1
NOD1
NOD2
NOLC1
NOS2
NPM1
NPR2
NPRL2
NPTX1
NPY
NQO2
NR0B2
NR1D1
NR1I2
NR2C2
NR3C1
NR4A1
NRG1
NRP1
NRSN1
NSG1
NT5E
NTN1
NUDT11
NUP62
NUP93

OAS1
OAS2
OCA2
OCLN
OPRM1
OSM
OSTC
OTUD4
P2RX7
P2RY11
P4HB
PA2G4
PABPC1
PABPN1
PADI1
PADI4
PAGR1
PAK1
PANK4
PARP1
PARP11
PAWR
PAX5
PAX6
PDCD1
PDCD1LG2
PDE4B
PDIA2
PDIA3
PDIA4
PDK2
PDPK1
PDPN
PECAM1
PF4
PFN1
PFN2
PGAM5
PGPEP1
PHB
PHGDH
PI4KB
PIK3C3

PIK3R2
PKLR
PKM
PKN3
PKP2
PLAAT4
PLG
PLK1
PLK4
PLSCR1
PNKD
PNO1
POLD1
POLDIP2
POLI
PPARA
PPARG
PPAT
PPBP
PPIA
PPIE
PPIL1
PPIL6
PRDM1
PRDX1
PRF1
PRH1
PRH2
PRKD2
PRKRA
PRNP
PROC
PRPF18
PRPF8
PRSS12
PRSS57
PRSS8
PRTN3
PSAT1
PSG1
PSMB8
PSMB8-AS1
PSMD1

PSMD2
PSMD9
PTBP1
PTEN
PTGES3
PTGS1
PTGS2
PTK2
PTPN1
PTPN11
PTPN22
PTPRC
PTPRN
PVT1
PWAR1
PWAR4
PYCARD
RAB11A
RAB11FIP3
RAB23
RAB27A
RAB40B
RAB5A
RAB5B
RAB7A
RAB7B
RAB8A
RAC1
RAC2
RADIL
RAE1
RAF1
RAG1
RAG2
RALBP1
RALY
RANBP3
RAP2B
RAPGEF3
RARA
RARB
RB1CC1
RBBP6

RBM14
RBM14-RBM4
RBMS3
RC3H1
RELA
REN
REPIN1
RHO
RHOA
RHOD
RICTOR
RIPK1
RIPK3
RLN2
RNASE1
RNASE3
RNASEL
RNF135
RNF19A
RNF31
RNF5
ROBO3
RP11-670E13.5
RPE65
RPL17-C18orf32
RPL28
RPL6
RPS15
RPS28
RPS6KA1
RPS6KA2
RPS6KA3
RPS6KA5
RPSA
RPTOR
RRAD
RRAS
RSAD2
RTN3
RUBCN
S100A11
S1PR1
SAFB

SAG
SAMHD1
SART1
SCAP
SCGB2A2
SCGB3A1
SCNN1G
SDC1
SDCBP2
SEC14L2
SELL
SERPINA1
SERPINA3
SERPINA3
SERPINE1
SERPINH1
SETD7
SETDB1
SETX
SFTPA1
SFTPA2
SFTPB
SFTPD
SGK3
SH2D1A
SH2D2A
SH3GLB1
SH3GLB2
SHARPIN
SIGIRR
SIRT1
SLAMF1
SLAMF6
SLC19A2
SLC20A1
SLC22A8
SLC31A1
SLU7
SMAD3
SMARCA2
SMPD1
SMU1
SNCA

SNRNP200
SNRNP35
SOCS1
SOCS3
SOD1
SON
SP1
SPATA2
SPHK1
SPHK2
SPINT1
SPOCK2
SPP1
SPRY1
SPTBN1
SQSTM1
SRC
SRSF1
SRSF2
SRSF3
SRSF7
ST14
ST3GAL1
ST3GAL3
ST6GAL1
ST8SIA2
STAG1
STAT1
STAT2
STAT3
STAT6
STK4
STS
SULT2A1
SUMO1
SYT1
TAC1
TAP1
TARS1
TARS2
TARS3
TBK1
TBX21

TCEAL1
TCIM
TCN1
TEP1
TERT
TFF2
THBD
TICAM1
TIMP1
TINAGL1
TIPARP
TIRAP
TJP1
TLR10
TLR2
TLR3
TLR4
TLR5
TLR7
TLR8
TLR9
TMBIM6
TMED10
TMED2
TMED7
TMPRSS11A
TMPRSS15
TMPRSS2
TNC
TNF
TNFRSF10A
TNFRSF10B
TNFRSF18
TNFRSF1A
TNFRSF25
TNFRSF4
TNFRSF8
TNFRSF9
TNFSF10
TNFSF12
TNFSF13B
TNFSF8
TNFSF9

TNNC1
TNNI3
TNPO1
TOLLIP
TOR1B
TP53
TP63
TPK1
TPMT
TPP2
TPPP
TPT1
TRAF1
TRAF3
TRAF5
TRAF6
TRAPPC6A
TRAT1
TREM1
TREML4
TRIB2
TRIM14
TRIM22
TRIM23
TRIM25
TRIM28
TRIM3
TRIM41
TRIM5
TRIM56
TRIM69
TSC2
TSLP
TSPOAP1
TTR
TUFM
TUT4
TUT7
TXN
TXNDC9
TYK2
UBA52
UBASH3B

UBD
UBE2L3
UBQLN2
UCA1
UCK2
UGT1A1
UGT1A10
UGT1A3
UGT1A4
UGT1A5
UGT1A6
UGT1A7
UGT1A8
UGT1A9
UNC93B1
UQCRFS1
USP11
USP18
UTRN
UVRAG
VASP
VCAM1
VCP
VDR
VLDLR
VNN1
VPS28
VPS4A
VTN
WFDC1
WNK1
WNT2
WNT3A
WT1
XBP1
XCL1
XCL2
XCR1
XPO1
YBX1
YME1L1
ZBP1
ZBTB25

ZC3H12A
ZHX2
ZMPSTE24
ZNF683
ZNRD2
ZYX

TABLE S6: INTERSECTION INFLUENZA AND PHYTOCHEMICALS GENE/PROTEIN NAMES
AKT1
MAPK3
TP53
PTGS2
IL6
NFE2L2
MMP9
EGFR
TNF
CDKN1A
JUN
ESR1
MAPK1
GABPA
MAPK14
STAT3
EGF
AHSA1
CRK
GRAP2
RNF19A
POLDIP2
IGF1
FOS
AIMP2
INS
MMP2
CASP3
BDNF
JUND
NSG1
TCEAL1
ERBB2
HIF1A
HRAS
LEP
JUNB
CXCL8
FOSB

HMOX1
CFTR
MT-CO2
SIRT1
RAF1
MTOR
FGF2
KRAS
SRC
APOE
CCL2
MAP2K1
PTEN
IL1B
CDH1
RELA
CD44
ICAM1
APP
PPARG
HSPA4
TNFRSF10B
GORASP1
WNK1
SYT1
CAV1
ABCB1
CREB1
TLR4
IL10
CXCR4
NOS2
PARP1
CD40LG
IL4
CRP
PPARA
MPO
ZHX2
SPP1
MTTP

AREG
HMGB1
CYCS
CXCL12
MAPK8
DPP4
NQO2
BACE1
ABL1
SOD1
IL18
NLRP3
YBX1
SP1
ISYNA1
SERPINE1
TIMP1
FN1
NR1I2
ABCA1
MMP13
ZNRD2
HP
DCTN6
TMED7
PSMD9
IFI27
RNASE3
MET
ATM
CASP8
FASLG
EIF2AK3
GAST
SMAD3
COL11A2
NPM1
HSP90AA1
CD40
RPS6KA3
MDM2

TLR2
KCNH4
KCNH8
CASP9
ALB
ANXA5
CHP1
DNMT1
TNFSF10
CCR7
VCAM1
FGF13
STAT1
BECN1
RPS6KA1
SEC14L2
GLI1
IL13
HSPA1A
ALK
MIR34A5P
PGPEP1
SCGB2A2
FOXO1
CCL11
ATF3
PRNP
CASP1
TTR
CD274
DNM1L
ACE
EZH2
OSM
IFNG
GRP
CD4
SQSTM1
FGFR2
MUC5AC
CXCL10

PLK1
PSG1
CFLAR
F2R
DAND5
JAK1
EIF4G1
KEAP1
IL2
HK2
CCR5
UGT1A1
AIM2
UGT1A8
KCNA5
ERBB3
TJP1
ID1
CDK1
CXCL1
FGFR1
AGTR1
MUC5B
STAT6
SPHK1
KLK3
MAP3K5
UTRN
PSMD1
KLK2
TAC1
MBTPS1
HDAC1
HOOK2
KIF2A
PECAM1
IL1A
AIP
MIR146A5P
TNFSF13B
IGFBP3

CD9
BGN
SNCA
PTK2
APEX1
SETX
RIPK3
TNFRSF10A
DAPK2
IFNA1
PAK1
DENR
MARK2
FPR2
UGT1A6
CRMP1
OCLN
FAS
CYBB
IL24
MAP3K1
DCTN4
TIPARP
RPS6KA2
NUP62
TSC2
EIF2AK2
IL17C
GTF2H1
FGF7
KHDRBS1
MX2
PKLR
FYN
LET7C5P
GLRX
CD8A
MUC15
GATD3B
CSF3
HES1

PROC
RAB5A
ST14
GATD3A
CLDN1
ATG7
DMBT1
GPT
KDM1A
HERPUD1
CNBP
RPS6KA5
MIR1323P
CEBPB
TERT
SOCS3
BSG
HEY2
IRAK1
CAP1
F3
PTGS1
TRAF1
ARHGEF7
HNRNPK
JAK3
RHOA
UBE2L3
MYD88
POLD1
APAF1
CCL5
H3-2
GRN
HEATR6
XBP1
IL1RL1
EPCAM
NRP1
MIR1555P
MIR203A

LET7B5P
MIR107
SDC1
IL6ST
IL33
CDC42
NRG1
OPRM1
ALDH3A1
ITGAM
CSF2
DEFB1
ABCA3
MLKL
PKM
P4HB
ALDH1A3
CTSB
FKBP4
NFKB1
LRP1
KLF2
LRPPRC
IL7
REN
TNFRSF1A
CCL22
IRF1
TNFRSF25
MAP2K4
TLR5
VDR
TRAF3
HAMP
MIR2233P
MIR29A3P
MIR29B3P
DNMT3B
E2F1
C5AR1
ARG1

ATG5
FOXP3
TLR7
SPATA2
HTR2A
RPL17-C18orf32
EPX
NR3C1
C3
RIPK1
MIR1275
MIR451A
RHO
IL3
KLK1
GRK2
IL17RA
PDCD1
ASCC1
CDK9
CXCR3
MIR2045P
HSPA14
SDCBP2
HSPD1
SUMO1
MDK
MECP2
RAPGEF3
PTPRC
EIF4E
TRAF6
NR4A1
IL22
PHB
MUC1
PWAR1
RALBP1
SULT2A1
C5
GAPDH

BCL2L2
BIRC3
CD80
HMGCR
RICTOR
FADD
RPTOR
RBBP6
PRKRA
CXCR2
KIR3DL2
TSLP
MAP2K3
CLDN7
EPRS1
CSRP1
FMR1
PTPN1
GZMB
PIK3R2
C1QBP
COL1A1
F2RL3
NDUFA2
NR0B2
JAG1
ARG2
DNMT3A
FCGR2A
CTTN
COL2A1
HLA-A
RNASE1
NPY
XPO1
DUOX2
CCL4
NR2C2
MIR146B5P
PWAR4
ALDH1A1

CD14
CALR
PAWR
WT1
PTPN11
TNNI3
PDPK1
ANXA6
RAC1
FCGR1A
MAP3K7
CPT2
CHD6
TNFSF12
CXCR1
ISG20
NPTX1
RHOD
XCR1
STAT2
LAMP1
SLC22A8
ATP7A
ANXA2
UGT1A9
AMPH
CTSE
PTPN22
CXCL9
PHGDH
STK4
TXN
PADI1
THBD
IL2RA
VLDLR
STAG1
MPRIIP
BCL6
NLRC4
NOLC1

CYLD
PRF1
LTA
IFNL3
MST1
SERPINA1
MME
IKBKB
IL32
CFL1
HNRNPC
MRC1
MAP2K6
CCL3
CCL4L2
MIF
TNFSF8
DUSP4
TNFSF9
CD70
PYCARD
SRSF1
CD33
RPE65
TEP1
GOLPH3
GAL
UBASH3B
WNT3A
MIR200C3P
LRRC3
SCGB3A1
PPBP
HIF1AN
IL17D
GRM5
PLG
CD7
CD46
CD28
KLK4

MAF
CADM1
CD86
RARB
NANOS2
GATA2
TAP1
C1D
KLRG1
CCL20
CD163
CES1
CD55
XCL2
GBP1
SFTPA2
ANXA7
MED12
STS
CCL17
PDIA2
VTN
CD69
IL5
AZU1
ID2
VASP
RALY
RAC2
RARA
LGALS3
ALDH3B2
CCNA1
MBD2
IL1RN
MSR1
CREBBP
PNO1
ARCN1
TP63
MAPKAP1

TINAGL1
NAT2
IGF2BP1
PADI4
PSAT1
ANXA1
IL1RAPL1
IFNB1
DDX1
RBMS3
GPS1
TIRAP
CD59
PRH2
DKK3
MX1
SFTPB
SFTPA1
ERN1
ILF3
OTUD4
EHMT1
KLF6
ERVW-1
HDAC2
IDO1
API5
CCR3
FKBP5
ITGAX
DPEP2
ELANE
SAFB
DDX6
PRH1
SPRY1
IKBKG
PVT1
MIR1243P
MIR315P

TABLE S7: Pathways enriched (KEGG)

Term_ID	Function	P-value	.-log10 Pvalue	Term Size	Query size	Intersection Size	Enrichment Score %	Positive Hits
KEGG: 05417	Lipid and atherosclerosis	2.45e-40	39,6	209	435	76	36,36	AKT1, MAPK3, TP53, IL6, NFE2L2, MMP9, TNF, JUN, MAPK1, MAPK14, STAT3, FOS, CASP3, HRAS, CXCL8, KRAS, SRC, CCL2, IL1B, RELA, ICAM1, PPARG, TNFRSF10B, TLR4, CD40LG, CYCS, MAPK8, IL18, NLRP3, ABCA1, CASP8, FASLG, EIF2AK3, HSP90AA1, CD40, TLR2, CASP9, TNFSF10, VCAM1, HSPA1A, CASP1, CXCL1, MAP3K5, PTK2, TNFRSF10A, IFNA1, FAS, CYBB, IRAK1, RHOA, MYD88, APAF1, CCL5, XBP1, CDC42, NFKB1, TNFRSF1A, MAP2K4, TRAF3, HSPD1, TRAF6, MAP2K3, CD14, PDPK1, RAC1, MAP3K7, VLDLR, IKBKB, MAP2K6, CCL3, PYCARD, IFNB1, TIRAP, ERN1, IKBKG

KEGG: 04668	TNF signaling pathway	8.0 2e- 34	33,1	11 0	435	52	47,27	AKT1, MAPK3, PTGS2, IL6, MMP9, TNF, JUN, MAPK1, MAPK14, FOS, CASP3, JUNB, CCL2, MAP2K1, IL1B, RELA, ICAM1, CREB1, MAPK8, CASP8, VCAM1, DNM1L, CXCL10, CFLAR, CXCL1, MAP3K5, RIPK3, FAS, RPS6KA5, CEBPB, SOCS3, TRAF1, CCL5, CSF2, MLKL, NFKB1, TNFRSF1A, IRF1, MAP2K4, TRAF3, RIPK1, BIRC3, FADD, MAP2K3, JAG1, MAP3K7, LTA, IKBKB, MAP2K6, CCL20, IFNB1, IKBKG
KEGG: 05200	Pathways in cancer	1.6 3e- 31	30,8	51 7	435	106	20,5	AKT1, MAPK3, TP53, PTGS2, IL6, NFE2L2, MMP9, EGFR, CDKN1A, JUN, ESR1, MAPK1, STAT3, EGF, CRK, IGF1, FOS, MMP2, CASP3, ERBB2, HIF1A, HRAS, CXCL8, HMOX1, RAF1, MTOR, FGF2, KRAS, MAP2K1, PTEN, CDH1, RELA, PPARG, CXCR4, NOS2, IL4, CYCS, CXCL12, MAPK8, ABL1, SP1, FN1, MET, CASP8, FASLG, SMAD3, HSP90AA1, MDM2, CASP9, STAT1, GLI1, IL13, ALK, FOXO1, IFNG, FGFR2, F2R, JAK1,

								KEAP1, IL2, FGFR1, AGTR1, STAT6, KLK3, HDAC1, PTK2, DAPK2, IFNA1, FAS, FGF7, HES1, RPS6KA5, TERT, HEY2, TRAF1, JAK3, RHOA, APAF1, IL6ST, CDC42, NFKB1, IL7, TRAF3, E2F1, IL3, TRAF6, RALBP1, BIRC3, FADD, F2RL3, JAG1, RAC1, STAT2, STK4, IL2RA, IKBKB, WNT3A, RARB, IL5, RAC2, RARA, CCNA1, CREBBP, HDAC2, IKBKG
KEGG: 04620	Toll-like receptor signaling pathway	1.7 1e- 31	30,8	10 0	435	48	48	AKT1, MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, FOS, CXCL8, MAP2K1, IL1B, RELA, TLR4, SPP1, MAPK8, CASP8, CD40, TLR2, STAT1, CXCL10, IFNA1, IRAK1, MYD88, CCL5, NFKB1, MAP2K4, TLR5, TRAF3, TLR7, RIPK1, TRAF6, CD80, FADD, MAP2K3, CCL4, CD14, RAC1, MAP3K7, CXCL9, IKBKB, MAP2K6, CCL3, CCL4L2, CD86, IFNB1, TIRAP, IKBKG

KEGG: 04657	IL-17 signaling pathway	3.6 6e- 30	29,4	91	435	45	49,45	MAPK3, PTGS2, IL6, MMP9, TNF, JUN, MAPK1, MAPK14, FOS, CASP3, JUND, CXCL8, FOSB, CCL2, IL1B, RELA, IL4, MAPK8, MMP13, CASP8, HSP90AA1, IL13, CCL11, IFNG, MUC5AC, CXCL10, CXCL1, MUC5B, IL17C, CSF3, CEBPB, CSF2, NFkB1, TRAF3, IL17RA, TRAF6, FADD, MAP3K7, IKBKB, SRSF1, IL17D, CCL20, CCL17, IL5, IKBKG
KEGG: 05161	Hepatitis B	2.7 2e- 28	27,6	15 9	435	56	35,22	AKT1, MAPK3, TP53, IL6, MMP9, TNF, CDKN1A, JUN, MAPK1, MAPK14, STAT3, FOS, CASP3, HRAS, CXCL8, RAF1, KRAS, SRC, MAP2K1, RELA, CREB1, TLR4, CYCS, MAPK8, CASP8, FASLG, SMAD3, TLR2, CASP9, STAT1, JAK1, STAT6, IFNA1, FAS, MAP3K1, IRAK1, JAK3, MYD88, APAF1, NFkB1, MAP2K4, TRAF3, E2F1, TRAF6, FADD, MAP2K3, MAP3K7, STAT2, IKBKB, MAP2K6, CCNA1, CREBBP, IFNB1, TIRAP, IKBKG

KEGG: 04060	Cytokine- cytokine receptor interaction	8.0 0e- 27	26,1	28 1	435	72	25,62	IL6, TNF, LEP, CXCL8, CCL2, IL1B, TNFRSF10B, IL10, CXCR4, CD40LG, IL4, CXCL12, IL18, FASLG, CD40, TNFSF10, CCR7, IL13, CCL11, OSM, IFNG, CD4, CXCL10, IL2, CCR5, CXCL1, IL1A, TNFSF13B, TNFRSF10A, IFNA1, FAS, IL24, IL17C, CSF3, CCL5, IL1RL1, IL6ST, IL33, CSF2, IL7, TNFRSF1A, CCL22, TNFRSF25, IL3, IL17RA, CXCR3, IL22, CXCR2, TSLP, CCL4, TNFSF12, CXCR1, XCR1, CXCL9, IL2RA, LTA, IFNL3, IL32, CCL3, CCL4L2, TNFSF8, TNFSF9, CD70, PPBP, IL17D, CCL20, CCL17, IL5, IL1RN, IFNB1, CCR3
KEGG: 05164	Influenza A	1.0 9e- 25	25	16 3	435	54	33,13	AKT1, MAPK3, IL6, TNF, MAPK1, CASP3, CXCL8, RAF1, CCL2, MAP2K1, IL1B, RELA, ICAM1, TNFRSF10B, TLR4, CYCS, IL18, NLRP3, CASP8, FASLG, CASP9, TNFSF10, STAT1, CASP1, IFNG, CXCL10, JAK1, IL1A, TNFRSF10A, IFNA1, FAS, EIF2AK2, MX2, SOCS3, MYD88, APAF1, CCL5, IL33, NFKB1, TNFRSF1A,

								TRAF3, TLR7, BCL2L2, FADD, XPO1, STAT2, IKBKB, PYCARD, PLG, CREBBP, IFNB1, MX1, IKBKG
KEGG: 05135	Yersinia infection	9.4 0e- 25	24	13 2	435	48	36,36	AKT1, MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, CRK, FOS, CXCL8, SRC, CCL2, MAP2K1, IL1B, RELA, TLR4, IL10, MAPK8, IL18, NLRP3, FN1, RPS6KA3, RPS6KA1, CASP1, CD4, IL2, PTK2, RPS6KA2, CD8A, IRAK1, ARHGEF7, RHOA, MYD88, CDC42, NFKB1, MAP2K4, TRAF6, MAP2K3, FCGR2A, RAC1, MAP3K7, NLRC4, IKBKB, MAP2K6, PYCARD, RAC2, IFNB1, IKBKG
KEGG: 05163	Human cytomegalovirus infection	3.5 4e- 24	23,5	21 5	435	60	27,91	AKT1, MAPK3, TP53, PTGS2, IL6, EGFR, TNF, CDKN1A, MAPK1, MAPK14, STAT3, CRK, CASP3, HRAS, CXCL8, RAF1, MTOR, KRAS, SRC, CCL2, MAP2K1, IL1B, RELA, CREB1, CXCR4, CYCS, CXCL12, SP1, CASP8, FASLG, MDM2, CASP9, JAK1, CCR5, PTK2, IFNA1,

								FAS, TSC2, RHOA, CCL5, NFKB1, TNFRSF1A, E2F1, RIPK1, FADD, CXCR2, HLA-A, CCL4, CALR, RAC1, IKBKB, MAP2K6, CCL3, CCL4L2, TAP1, RAC2, IFNB1, CCR3, IKBKG
KEGG: 05167	Kaposi sarcoma-associated herpesvirus infection	1.20e-23	22,9	191	435	56	29,32	AKT1, MAPK3, TP53, PTGS2, IL6, CDKN1A, JUN, MAPK1, MAPK14, STAT3, FOS, CASP3, HIF1A, HRAS, CXCL8, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, RELA, ICAM1, CREB1, CYCS, MAPK8, CASP8, CASP9, STAT1, BECN1, JAK1, CCR5, CXCL1, IFNA1, FAS, EIF2AK2, IL6ST, CSF2, NFKB1, TNFRSF1A, MAP2K4, TRAF3, E2F1, C3, FADD, HLA-A, RAC1, STAT2, IKBKB, MAP2K6, CD86, CREBBP, IFNB1, CCR3, IKBKG
KEGG: 05130	Pathogenic Escherichia coli infection	5.17e-22	21,3	183	435	53	28,96	MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, FOS, CASP3, CXCL8, SRC, IL1B, RELA, TNFRSF10B, TLR4, CYCS, MAPK8, ABL1, IL18, NLRP3, CASP8, FASLG, CASP9, TNFSF10, CASP1, F2R, TJP1, TNFRSF10A,

								PAK1, OCLN, FAS, FYN, CLDN1, IRAK1, RHOA, MYD88, CDC42, NFKB1, TNFRSF1A, TLR5, RIPK1, TRAF6, GAPDH, FADD, CLDN7, FCGR2A, CTTN, PTPN11, RAC1, MAP3K7, IKBKB, PYCARD, TIRAP, IKBKG
KEGG: 05160	Hepatitis C	1.2 5e-21	20,9	15 2	435	48	31,58	AKT1, MAPK3, TP53, EGFR, TNF, CDKN1A, MAPK1, STAT3, EGF, CASP3, HRAS, RAF1, KRAS, MAP2K1, RELA, PPARA, CYCS, CASP8, FASLG, EIF2AK3, CASP9, STAT1, IFNG, CXCL10, CFLAR, JAK1, IFNA1, OCLN, FAS, EIF2AK2, MX2, CLDN1, SOCS3, APAF1, NFKB1, TNFRSF1A, TRAF3, E2F1, RIPK1, TRAF6, FADD, CLDN7, STAT2, IKBKB, IFNB1, MX1, IKBKG
KEGG: 05142	Chagas disease	1.4 1e-21	20,9	98	435	39	39,8	AKT1, MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, FOS, CXCL8, CCL2, IL1B, RELA, TLR4, IL10, NOS2, MAPK8, SERPINE1, CASP8, FASLG, TLR2, ACE, IFNG, CFLAR, IL2, FAS, IRAK1, MYD88, CCL5, NFKB1, TNFRSF1A, MAP2K4, C3, TRAF6, FADD, CALR, IKBKB,

								CCL3, IFNB1, IKBKG
KEGG: 05162	Measles	2.6 8e- 21	20,6	13 5	435	45	33,33	AKT1, TP53, IL6, JUN, STAT3, FOS, CASP3, IL1B, RELA, TLR4, CYCS, MAPK8, CASP8, FASLG, EIF2AK3, TLR2, CASP9, STAT1, HSPA1A, JAK1, IL2, IL1A, IFNA1, FAS, EIF2AK2, MX2, IRAK1, JAK3, MYD88, APAF1, NFKB1, TRAF3, TLR7, TRAF6, FADD, MAP3K7, STAT2, IL2RA, IKBKB, CD46, CD28, IFNB1, MX1, IKBKG
KEGG: 05169	Epstein- Barr virus infection	4.8 7e- 21	20,3	19 1	435	53	27,75	AKT1, TP53, IL6, TNF, CDKN1A, JUN, MAPK14, STAT3, CASP3, RELA, CD44, ICAM1, CYCS, MAPK8, CASP8, CD40, MDM2, TLR2, CASP9, STAT1, CXCL10, JAK1, PSMD1, HDAC1, IFNA1, FAS, EIF2AK2, HES1, IRAK1, JAK3, MYD88, APAF1, NFKB1, MAP2K4, TRAF3, E2F1, RIPK1, TRAF6, FADD, MAP2K3, HLA-A, CALR, RAC1, MAP3K7, STAT2, IKBKB, MAP2K6, TAP1, CCNA1, IFNB1, HDAC2, IKBKG

KEGG: 05132	Salmonella infection	4.9 7e- 21	20,3	23 6	435	59	25	AKT1, MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, FOS, CASP3, HRAS, CXCL8, RAF1, MAP2K1, IL1B, RELA, TNFRSF10B, TLR4, CYCS, MAPK8, IL18, NLRP3, DCTN6, CASP8, HSP90AA1, TLR2, TNFSF10, CASP1, RIPK3, TNFRSF10A, PAK1, DCTN4, RAB5A, IRAK1, RHOA, MYD88, CDC42, MLKL, NFKB1, TNFRSF1A, MAP2K4, TLR5, RIPK1, PTPRC, TRAF6, GAPDH, BIRC3, FADD, MAP2K3, CD14, RAC1, MAP3K7, ANXA2, TXN, NLRC4, IKBKB, MAP2K6, PYCARD, TIRAP, IKBKG
KEGG: 05152	Tuberculosis	1.2 2e- 20	19,9	17 3	435	50	28,9	AKT1, MAPK3, IL6, TNF, MAPK1, MAPK14, CASP3, RAF1, SRC, IL1B, RELA, CREB1, TLR4, IL10, NOS2, CYCS, MAPK8, IL18, CASP8, TLR2, CASP9, STAT1, IFNG, JAK1, SPHK1, IL1A, IFNA1, RAB5A, CEBPB, IRAK1, RHOA, MYD88, APAF1, ITGAM, NFKB1, TNFRSF1A, VDR, C3, HSPD1, TRAF6, FADD, FCGR2A, CD14, FCGR1A, MRC1,

								CREBBP, IFNB1, TIRAP, ITGAX
KEGG: 05235	PD-L1 expression and PD-1 checkpoint pathway in cancer	2.5 3e-20	19,6	88	435	36	40,91	AKT1, MAPK3, EGFR, JUN, MAPK1, MAPK14, STAT3, EGF, FOS, HIF1A, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, RELA, TLR4, TLR2, STAT1, ALK, CD274, IFNG, CD4, JAK1, MYD88, NFKB1, PDCD1, TRAF6, MAP2K3, PTPN11, IKBKB, MAP2K6, CD28, TIRAP, IKBKG
KEGG: 05133	Pertussis	1.5 5e-19	18,8	76	435	33	43,42	MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, FOS, CASP3, CXCL8, IL1B, RELA, TLR4, IL10, NOS2, MAPK8, NLRP3, CASP1, IL1A, IRAK1, RHOA, MYD88, ITGAM, NFKB1, IRF1, C3, TRAF6, C5, CD14, CFL1, PYCARD, SFTPA2, TIRAP, SFTPA1
KEGG: 04061	Viral protein interaction with cytokine and	2.4 0e-19	18,6	93	435	36	38,71	IL6, TNF, CXCL8, CCL2, TNFRSF10B, IL10, CXCR4, CXCL12, IL18, TNFSF10, CCR7, CCL11, CXCL10, IL2, CCR5, CXCL1, TNFRSF10A,

	cytokine receptor							IL24, CCL5, IL6ST, TNFRSF1A, CCL22, CXCR3, CXCR2, CCL4, CXCR1, XCR1, CXCL9, IL2RA, LTA, CCL3, CCL4L2, PPBP, CCL20, CCL17, CCR3
KEGG: 04210	Apoptosis	3.3 5e- 19	18,5	13 0	435	42	32,31	AKT1, MAPK3, TP53, TNF, JUN, MAPK1, FOS, CASP3, HRAS, RAF1, KRAS, MAP2K1, RELA, TNFRSF10B, PARP1, CYCS, MAPK8, ATM, CASP8, FASLG, EIF2AK3, CASP9, TNFSF10, CFLAR, MAP3K5, TNFRSF10A, FAS, TRAF1, APAF1, CTSB, NFKB1, TNFRSF1A, RIPK1, IL3, BIRC3, FADD, GZMB, PDPK1, PRF1, IKBKB, ERN1, IKBKG
KEGG: 05418	Fluid shear stress and atheroscler osis	1.0 1e- 17	17	13 4	435	41	30,6	AKT1, TP53, NFE2L2, MMP9, TNF, JUN, MAPK14, FOS, MMP2, HMOX1, SRC, CCL2, IL1B, RELA, ICAM1, CAV1, MAPK8, HSP90AA1, VCAM1, IFNG, SQSTM1, KEAP1, MAP3K5, PECAM1, IL1A, PTK2, RHOA, SDC1, NFKB1, KLF2, TNFRSF1A, MAP2K4, SUMO1, RAC1, MAP3K7, TXN, THBD, IKBKB, MAP2K6, RAC2, IKBKG

KEGG: 05171	Coronavir us disease - COVID- 19	1.1 3e- 17	16,9	20 7	435	51	24,64	MAPK3, IL6, EGFR, TNF, JUN, MAPK1, MAPK14, STAT3, FOS, CXCL8, CCL2, IL1B, RELA, TLR4, MAPK8, NLRP3, TLR2, STAT1, CASP1, ACE, CXCL10, JAK1, IL2, AGTR1, IFNA1, CYBB, EIF2AK2, MX2, CSF3, IRAK1, MYD88, NRP1, IL6ST, CSF2, NFKB1, TNFRSF1A, TRAF3, C5AR1, TLR7, RPL17-C18orf32, C3, TRAF6, C5, FCGR2A, MAP3K7, STAT2, IKBKB, IFNB1, MX1, IKBKG
KEGG: 05170	Human immunode ficiency virus 1 infection	1.1 3e- 17	16,9	20 7	435	51	24,64	AKT1, MAPK3, TNF, JUN, MAPK1, MAPK14, CRK, FOS, CASP3, HRAS, RAF1, MTOR, KRAS, MAP2K1, RELA, TLR4, CXCR4, CYCS, MAPK8, ATM, CASP8, FASLG, TLR2, CASP9, CD4, CCR5, CDK1, PTK2, IFNA1, PAK1, FAS, IRAK1, MYD88, NFKB1, TNFRSF1A, RIPK1, TRAF6, FADD, MAP2K3, HLA-A, CALR, RAC1, MAP3K7, IKBKB, CFL1, MAP2K6, TAP1, RAC2, IFNB1, IKBKG

KEGG: 04062	Chemokine signaling pathway	2.0 6e- 17	16,7	17 9	435	47	26,26	AKT1, MAPK3, MAPK1, STAT3, CRK, HRAS, CXCL8, RAF1, KRAS, SRC, CCL2, MAP2K1, RELA, CXCR4, CXCL12, CCR7, STAT1, CCL11, CXCL10, CCR5, CXCL1, PTK2, PAK1, JAK3, RHOA, CCL5, CDC42, NFKB1, CCL22, GRK2, CXCR3, CXCR2, CCL4, RAC1, CXCR1, XCR1, STAT2, CXCL9, IKBKB, CCL3, CCL4L2, PPBP, CCL20, CCL17, RAC2, CCR3, IKBKG
KEGG: 04010	MAPK signaling pathway	2.8 7e- 17	16,5	28 6	435	60	20,98	AKT1, MAPK3, TP53, EGFR, TNF, JUN, MAPK1, MAPK14, EGF, CRK, IGF1, FOS, INS, CASP3, BDNF, JUND, ERBB2, HRAS, RAF1, FGF2, KRAS, MAP2K1, IL1B, RELA, AREG, MAPK8, MET, FASLG, RPS6KA3, RPS6KA1, HSPA1A, FGFR2, ERBB3, FGFR1, MAP3K5, IL1A, PAK1, FAS, MAP3K1, RPS6KA2, FGF7, RPS6KA5, IRAK1, MYD88, CDC42, NFKB1, TNFRSF1A, MAP2K4, TRAF6, NR4A1, MAP2K3, CD14, RAC1, MAP3K7, STK4, IKBKB, MAP2K6, DUSP4, RAC2, IKBKG

KEGG: 04621	NOD-like receptor signaling pathway	4.9 0e- 17	16,3	17 5	435	46	26,29	MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, CXCL8, CCL2, IL1B, RELA, TLR4, MAPK8, IL18, NLRP3, CASP8, HSP90AA1, STAT1, CASP1, DNMI1L, JAK1, AIM2, CXCL1, RIPK3, IFNA1, CYBB, RHOA, MYD88, CCL5, CTSB, NFKB1, TRAF3, ATG5, RIPK1, TRAF6, BIRC3, FADD, MAP3K7, STAT2, TXN, NLRC4, IKBKB, PYCARD, GBP1, IFNB1, IKBKG
KEGG: 04936	Alcoholic liver disease	8.2 3e- 17	16,1	14 1	435	41	29,08	AKT1, IL6, TNF, MAPK14, CASP3, CXCL8, SIRT1, IL1B, RELA, TLR4, PPARA, MAPK8, CASP8, FASLG, FOXO1, CXCL1, MAP3K5, IFNA1, FAS, IRAK1, MYD88, NFKB1, TNFRSF1A, MAP2K4, TRAF3, C5AR1, C3, RIPK1, IL17RA, TRAF6, C5, FADD, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, IFNB1, TIRAP, IKBKG
KEGG: 04660	T cell receptor signaling pathway	8.7 8e- 17	16,1	10 2	435	35	34,31	AKT1, MAPK3, TNF, JUN, MAPK1, MAPK14, GRAP2, FOS, HRAS, RAF1, KRAS, MAP2K1, RELA, IL10, CD40LG, IL4, MAPK8, IFNG, CD4, IL2, PAK1, FYN, CD8A,

								RHOA, CDC42, CSF2, NFKB1, PDCD1, PTPRC, PDPK1, MAP3K7, IKBKB, CD28, IL5, IKBKG
KEGG: 04625	C-type lectin receptor signaling pathway	8.7 8e-17	16,1	10 2	435	35	34,31	AKT1, MAPK3, PTGS2, IL6, TNF, JUN, MAPK1, MAPK14, HRAS, RAF1, KRAS, SRC, IL1B, RELA, IL10, MAPK8, NLRP3, CASP8, MDM2, STAT1, CASP1, IL2, PAK1, RHOA, NFKB1, CCL22, IRF1, PTPN11, STAT2, CYLD, IKBKB, PYCARD, IL17D, CCL17, IKBKG
KEGG: 05145	Toxoplasmosis	5.1 1e-16	15,3	10 7	435	35	32,71	AKT1, MAPK3, TNF, MAPK1, MAPK14, STAT3, CASP3, RELA, TLR4, IL10, NOS2, CD40LG, CYCS, MAPK8, CASP8, CD40, TLR2, CASP9, STAT1, HSPA1A, IFNG, JAK1, CCR5, IRAK1, MYD88, NFKB1, TNFRSF1A, TRAF6, BIRC3, MAP2K3, PDPK1, MAP3K7, IKBKB, MAP2K6, IKBKG
KEGG: 04064	NF-kappa B signaling pathway	7.9 9e-16	15,1	10 2	435	34	33,33	PTGS2, TNF, CXCL8, IL1B, RELA, ICAM1, TLR4, PARP1, CD40LG, CXCL12, ATM, CD40, VCAM1, CFLAR, CXCL1, TNFSF13B, IRAK1, TRAF1, MYD88, NFKB1, TNFRSF1A, TRAF3,

								RIPK1, TRAF6, BIRC3, CCL4, CD14, MAP3K7, CYLD, LTA, IKBKB, CCL4L2, TIRAP, IKBKG
KEGG: 04217	Necroptosis	1.68e-15	14,8	152	435	41	26,97	TNF, STAT3, IL1B, TNFRSF10B, TLR4, PARP1, HMGB1, MAPK8, NLRP3, CASP8, FASLG, HSP90AA1, TNFSF10, STAT1, CASP1, DNM1L, IFNG, SQSTM1, CFLAR, JAK1, STAT6, IL1A, RIPK3, TNFRSF10A, IFNA1, FAS, CYBB, EIF2AK2, JAK3, IL33, MLKL, TNFRSF1A, SPATA2, RIPK1, BIRC3, FADD, STAT2, CYLD, PYCARD, IFNB1
KEGG: 05134	Legionellosis	2.10e-15	14,7	54	435	25	46,3	IL6, TNF, CASP3, CXCL8, IL1B, RELA, TLR4, CYCS, IL18, CASP8, TLR2, CASP9, HSPA1A, CASP1, CXCL1, MYD88, APAF1, ITGAM, NFKB1, TLR5, C3, HSPD1, CD14, NLRC4, PYCARD
KEGG: 04933	AGE-RAGE signaling pathway in diabetic complications	2.49e-15	14,6	99	435	33	33,33	AKT1, MAPK3, IL6, TNF, JUN, MAPK1, MAPK14, STAT3, MMP2, CASP3, HRAS, CXCL8, KRAS, CCL2, IL1B, RELA, ICAM1, MAPK8, SERPINE1, FN1, SMAD3, VCAM1, STAT1, FOXO1,

								AGTR1, IL1A, CYBB, F3, CDC42, NFKB1, COL1A1, RAC1, THBD
KEGG: 05215	Prostate cancer	2.6 6e-15	14,6	93	435	32	34,41	AKT1, MAPK3, TP53, MMP9, EGFR, CDKN1A, MAPK1, EGF, IGF1, INS, ERBB2, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, RELA, CREB1, HSP90AA1, MDM2, CASP9, FOXO1, FGFR2, FGFR1, KLK3, NFKB1, E2F1, PDPK1, IKBKB, CREBBP, IKBKG
KEGG: 05140	Leishmaniasis	4.3 6e-15	14,4	71	435	28	39,44	MAPK3, PTGS2, TNF, JUN, MAPK1, MAPK14, FOS, IL1B, RELA, TLR4, IL10, NOS2, IL4, TLR2, STAT1, IFNG, JAK1, IL1A, CYBB, IRAK1, MYD88, ITGAM, NFKB1, C3, TRAF6, FCGR2A, FCGR1A, MAP3K7
KEGG: 05131	Shigellosis	8.5 5e-15	14,1	23 9	435	51	21,34	AKT1, MAPK3, TP53, EGFR, TNF, JUN, MAPK1, MAPK14, CRK, CXCL8, MTOR, SRC, IL1B, RELA, CD44, TLR4, CYCS, MAPK8, IL18, NLRP3, ATM, MDM2, BECN1, FOXO1, CASP1, SQSTM1, HK2, PTK2, RPS6KA5, RHOA, MYD88, CCL5, CDC42, CSF2, NFKB1, TNFRSF1A, TLR5, ATG5,

								C3, RIPK1, TRAF6, RPTOR, CTTN, CD14, RAC1, MAP3K7, NLRC4, IKBKB, PYCARD, IFNB1, IKBKG
KEGG: 04380	Osteoclast differentiation	1.31e-14	13,9	124	435	36	29,03	AKT1, MAPK3, TNF, JUN, MAPK1, MAPK14, FOS, JUND, JUNB, FOSB, MAP2K1, IL1B, RELA, PPARG, CREB1, MAPK8, STAT1, IFNG, SQSTM1, JAK1, IL1A, FYN, SOCS3, NFKB1, TNFRSF1A, TRAF6, FCGR2A, RAC1, FCGR1A, MAP3K7, STAT2, CYLD, IKBKB, MAP2K6, IFNB1, IKBKG
KEGG: 05165	Human papilloma virus infection	1.75e-14	13,8	315	435	59	18,73	AKT1, MAPK3, TP53, PTGS2, EGFR, TNF, CDKN1A, MAPK1, EGF, CASP3, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, RELA, CREB1, SPP1, FN1, ATM, CASP8, FASLG, MDM2, STAT1, FOXO1, JAK1, HDAC1, PTK2, IFNA1, FAS, TSC2, EIF2AK2, MX2, HES1, TERT, HEY2, CDC42, PKM, NFKB1, TNFRSF1A, IRF1, TRAF3, E2F1, FADD, COL1A1, JAG1, COL2A1, HLA-A, STAT2, IKBKB,

								WNT3A, CCNA1, CREBBP, IFNB1, MX1, HDAC2, IKBKG
KEGG: 05205	Proteoglycans in cancer	7.90e-14	13,1	200	435	45	22,5	AKT1, MAPK3, TP53, MMP9, EGFR, TNF, CDKN1A, ESR1, MAPK1, MAPK14, STAT3, IGF1, MMP2, CASP3, ERBB2, HIF1A, HRAS, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, CD44, CAV1, TLR4, FN1, MET, FASLG, MDM2, TLR2, ERBB3, FGFR1, PTK2, PAK1, FAS, RHOA, SDC1, CDC42, COL1A1, CTTN, PTPN11, PDPK1, RAC1, WNT3A
KEGG: 05212	Pancreatic cancer	1.65e-13	12,8	74	435	27	36,49	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, STAT3, EGF, ERBB2, RAF1, MTOR, KRAS, MAP2K1, RELA, MAPK8, SMAD3, CASP9, STAT1, JAK1, CDC42, NFKB1, E2F1, RALBP1, RAC1, IKBKB, RAC2, IKBKG

KEGG: 04151	PI3K-Akt signaling pathway	2.2 9e- 13	12,6	34 2	435	60	17,54	AKT1, MAPK3, TP53, IL6, EGFR, CDKN1A, MAPK1, EGF, IGF1, INS, BDNF, ERBB2, HRAS, RAF1, MTOR, FGF2, KRAS, MAP2K1, PTEN, RELA, CREB1, TLR4, IL4, SPP1, AREG, FN1, MET, FASLG, HSP90AA1, MDM2, TLR2, CASP9, OSM, FGFR2, F2R, JAK1, IL2, ERBB3, FGFR1, PTK2, IFNA1, TSC2, FGF7, CSF3, JAK3, NFkB1, IL7, IL3, EIF4E, NR4A1, RPTOR, COL1A1, COL2A1, PDPK1, RAC1, IL2RA, IKBKB, IFNB1, IKBKG
KEGG: 04630	JAK- STAT signaling pathway	3.5 8e- 13	12,4	15 9	435	39	24,53	AKT1, IL6, EGFR, CDKN1A, STAT3, EGF, HRAS, LEP, RAF1, MTOR, IL10, IL4, STAT1, IL13, OSM, IFNG, JAK1, IL2, STAT6, IFNA1, IL24, CSF3, SOCS3, JAK3, IL6ST, CSF2, IL7, IL3, IL22, TSLP, PTPN11, STAT2, IL2RA, IFNL3, IL17D, IL5, CREBBP, IFNB1
KEGG: 05321	Inflammat ory bowel disease	8.8 2e- 13	12,1	61	435	24	39,34	IL6, TNF, JUN, STAT3, IL1B, RELA, TLR4, IL10, IL4, IL18, SMAD3, TLR2, STAT1, IL13, IFNG, IL2, STAT6, IL1A, NFkB1, TLR5, FOXP3, IL22,

								MAF, IL5
KEGG: 05219	Bladder cancer	1.0 4e- 12	12	41	435	20	48,78	MAPK3, TP53, MMP9, EGFR, CDKN1A, MAPK1, EGF, MMP2, ERBB2, HRAS, CXCL8, RAF1, KRAS, SRC, MAP2K1, CDH1, MDM2, DAPK2, RPS6KA5, E2F1
KEGG: 04659	Th17 cell differentiat ion	6.1 5e- 12	11,2	10 4	435	30	28,85	MAPK3, IL6, JUN, MAPK1, MAPK14, STAT3, FOS, HIF1A, MTOR, IL1B, RELA, IL4, MAPK8, SMAD3, HSP90AA1, STAT1, IFNG, CD4, JAK1, IL2, STAT6, JAK3, IL6ST, NFKB1, FOXP3, IL22, IL2RA, IKBKB, RARA, IKBKG
KEGG: 04722	Neurotrop hin signaling pathway	1.7 8e- 11	10,8	11 5	435	31	26,96	AKT1, MAPK3, TP53, JUN, MAPK1, MAPK14, CRK, BDNF, HRAS, RAF1, KRAS, MAP2K1, RELA, MAPK8, ABL1, FASLG, RPS6KA3, RPS6KA1, MAP3K5, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, RHOA, CDC42, NFKB1, TRAF6, PTPN11, PDPK1, RAC1, IKBKB
KEGG: 04068	FoxO signaling pathway	6.9 4e- 11	10,2	12 8	435	32	25	AKT1, MAPK3, IL6, EGFR, CDKN1A, MAPK1, MAPK14, STAT3, EGF, IGF1, INS, HRAS, SIRT1, RAF1,

								KRAS, MAP2K1, PTEN, IL10, MAPK8, ATM, FASLG, SMAD3, MDM2, TNFSF10, FOXO1, PLK1, KLF2, PDPK1, STK4, BCL6, IKBKB, CREBBP
KEGG: 05144	Malaria	7.1 2e-11	10,1	49	435	20	40,82	IL6, TNF, CXCL8, CCL2, IL1B, ICAM1, TLR4, IL10, CD40LG, IL18, MET, CD40, TLR2, VCAM1, IFNG, PECAM1, CSF3, MYD88, SDC1, LRP1
KEGG: 04932	Non-alcoholic fatty liver disease	2.7 1e-10	9,6	14 2	435	33	23,24	AKT1, IL6, TNF, JUN, MAPK14, FOS, INS, CASP3, LEP, CXCL8, MT-CO2, IL1B, RELA, PPARG, PPARG, CYCS, MAPK8, CASP8, FASLG, EIF2AK3, MAP3K5, IL1A, FAS, PKLR, SOCS3, XBP1, CDC42, NFKB1, TNFRSF1A, NDUFA2, RAC1, IKBKB, ERN1
KEGG: 01522	Endocrine resistance	3.0 0e-10	9,5	90	435	26	28,89	AKT1, MAPK3, TP53, MMP9, EGFR, CDKN1A, JUN, ESR1, MAPK1, MAPK14, IGF1, FOS, MMP2, ERBB2, HRAS, RAF1, MTOR, KRAS, SRC, MAP2K1, MAPK8, SP1, MDM2, PTK2, E2F1, JAG1

KEGG: 05166	Human T-cell leukemia virus 1 infection	3.0 1e-10	9,5	21 1	435	41	19,43	AKT1, MAPK3, TP53, IL6, TNF, CDKN1A, JUN, MAPK1, FOS, HRAS, KRAS, MAP2K1, PTEN, RELA, ICAM1, CREB1, MAPK8, ATM, SMAD3, CD40, CD4, JAK1, IL2, MAP3K1, TERT, JAK3, NRP1, CSF2, NFKB1, TNFRSF1A, MAP2K4, E2F1, HLA-A, XPO1, CALR, IL2RA, LTA, IKBKB, CCNA1, CREBBP, IKBKG
KEGG: 04664	Fc epsilon RI signaling pathway	3.0 4e-10	9,5	64	435	22	34,38	AKT1, MAPK3, TNF, MAPK1, MAPK14, HRAS, RAF1, KRAS, MAP2K1, IL4, MAPK8, IL13, FYN, CSF2, MAP2K4, IL3, MAP2K3, PDPK1, RAC1, MAP2K6, IL5, RAC2
KEGG: 05202	Transcriptional misregulation in cancer	9.1 1e-10	9	18 2	435	37	20,33	TP53, IL6, MMP9, CDKN1A, IGF1, CXCL8, RELA, PPARG, MPO, SP1, MET, ATM, CD40, MDM2, FOXO1, HDAC1, IGFBP3, PTK2, CEBPB, TRAF1, ITGAM, CSF2, NFKB1, IL3, CDK9, BIRC3, GZMB, CD14, WT1, FCGR1A, BCL6, MAF, CD86, RARA, CCNA1, HDAC2, ELANE
KEGG: 05330	Allograft rejection	1.0 7e-09	9	34	435	16	47,06	TNF, IL10, CD40LG, IL4, FASLG, CD40, IFNG, IL2, FAS, CD80, GZMB, HLA-

								A, PRF1, CD28, CD86, IL5
KEGG: 05120	Epithelial cell signaling in Helicobacter pylori infection	1.7 0e-09	8,8	69	435	22	31,88	EGFR, JUN, MAPK14, CASP3, CXCL8, SRC, RELA, MAPK8, MET, TJP1, CXCL1, PAK1, CCL5, CDC42, NFKB1, MAP2K4, CXCR2, PTPN11, RAC1, CXCR1, IKBKB, IKBKG
KEGG: 01521	EGFR tyrosine kinase inhibitor resistance	1.9 5e-09	8,7	76	435	23	30,26	AKT1, MAPK3, IL6, EGFR, MAPK1, STAT3, EGF, IGF1, ERBB2, HRAS, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, PTEN, MET, FGFR2, JAK1, ERBB3, NRG1, EIF4E
KEGG: 05221	Acute myeloid leukemia	3.7 5e-09	8,4	65	435	21	32,31	AKT1, MAPK3, MAPK1, STAT3, HRAS, RAF1, MTOR, KRAS, MAP2K1, RELA, MPO, ITGAM, CSF2, NFKB1, IL3, CD14, FCGR1A, IKBKB, RARA, CCNA1, IKBKG
KEGG: 04066	HIF-1 signaling pathway	4.7 3e-09	8,3	108	435	27	25	AKT1, MAPK3, IL6, EGFR, CDKN1A, MAPK1, STAT3, EGF, IGF1, INS, ERBB2, HIF1A, HMOX1, MTOR, MAP2K1, RELA, TLR4, NOS2, SERPINE1, TIMP1, IFNG, HK2, CYBB, NFKB1, EIF4E, GAPDH, CREBBP
KEGG: 04623	Cytosolic DNA-	5.8 4e-	8,2	60	435	20	33,33	IL6, IL1B, RELA, IL18, CASP1, CXCL10, AIM2,

	sensing pathway	09						RIPK3, IFNA1, CCL5, IL33, NFKB1, RIPK1, CCL4, IKBKB, CCL4L2, PYCARD, IFNB1, IKBKG
KEGG: 04650	Natural killer cell mediated cytotoxicity	6.28e-09	8,2	117	435	28	23,93	MAPK3, TNF, MAPK1, CASP3, HRAS, RAF1, KRAS, MAP2K1, ICAM1, TNFRSF10B, FASLG, TNFSF10, IFNG, TNFRSF10A, IFNA1, PAK1, FAS, FYN, CSF2, KIR3DL2, GZMB, HLA-A, PTPN11, RAC1, PRF1, RAC2, IFNB1
KEGG: 05203	Viral carcinogenesis	6.60e-09	8,2	194	435	37	19,07	MAPK3, TP53, CDKN1A, JUN, MAPK1, STAT3, CASP3, HRAS, KRAS, SRC, RELA, CREB1, CASP8, MDM2, JAK1, CCR5, CDK1, HDAC1, EIF2AK2, GTF2H1, TRAF1, HNRNPK, JAK3, RHOA, IL6ST, CDC42, PKM, NFKB1, TRAF3, C3, HLA-A, RAC1, CCNA1, CREBBP, HDAC2, CCR3, IKBKG
KEGG: 04012	ErbB signaling pathway	8.35e-09	8,1	81	435	23	28,4	AKT1, MAPK3, EGFR, CDKN1A, JUN, MAPK1, EGF, CRK, ERBB2, HRAS, RAF1, MTOR, KRAS, SRC, MAP2K1, AREG, MAPK8, ABL1, ERBB3, PTK2, PAK1, NRG1, MAP2K4
KEGG: 05416	Viral myocarditis	8.80e-	8,1	55	435	19	34,55	CASP3, ICAM1, CAV1, CD40LG, CYCS, ABL1,

	s	09						CASP8, CD40, CASP9, EIF4G1, FYN, CD80, HLA-A, RAC1, PRF1, CD28, CD86, CD55, RAC2
KEGG: 04218	Cellular senescence	9.6 3e-09	8	15 2	435	32	21,05	AKT1, MAPK3, TP53, IL6, CDKN1A, MAPK1, MAPK14, HRAS, CXCL8, SIRT1, RAF1, MTOR, KRAS, MAP2K1, PTEN, RELA, SERPINE1, ATM, SMAD3, MDM2, FOXO1, SQSTM1, CDK1, IL1A, IGFBP3, TSC2, NFKB1, E2F1, MAP2K3, HLA-A, MAP2K6, CCNA1
KEGG: 04622	RIG-I-like receptor signaling pathway	9.8 7e-09	8	68	435	21	30,88	TNF, MAPK14, CXCL8, RELA, MAPK8, CASP8, CXCL10, IFNA1, MAP3K1, NFKB1, TRAF3, ATG5, RIPK1, TRAF6, FADD, MAP3K7, CYLD, IKBKB, IFNB1, IKBKG
KEGG: 05210	Colorectal cancer	1.4 4e-08	7,8	83	435	23	27,71	AKT1, MAPK3, TP53, EGFR, CDKN1A, JUN, MAPK1, EGF, FOS, CASP3, HRAS, RAF1, MTOR, KRAS, MAP2K1, AREG, CYCS, MAPK8, SMAD3, CASP9, RHOA, RAC1, RAC2
KEGG: 04940	Type I diabetes mellitus	2.2 2e-08	7,7	40	435	16	40	TNF, INS, IL1B, FASLG, IFNG, IL2, IL1A, FAS, HSPD1, CD80, GZMB, HLA-A, PRF1, LTA, CD28, CD86

KEGG: 05223	Non-small cell lung cancer	2.4 5e- 08	7,6	71	435	21	29,58	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, STAT3, EGF, ERBB2, HRAS, RAF1, KRAS, MAP2K1, MET, CASP9, ALK, JAK3, E2F1, PDPK1, STK4, RARB
KEGG: 04658	Th1 and Th2 cell differentiat ion	3.1 6e- 08	7,5	86	435	23	26,74	MAPK3, JUN, MAPK1, MAPK14, FOS, RELA, IL4, MAPK8, STAT1, IL13, IFNG, CD4, JAK1, IL2, STAT6, JAK3, NFKB1, JAG1, IL2RA, IKBKB, MAF, IL5, IKBKG
KEGG: 05323	Rheumatoi d arthritis	3.1 6e- 08	7,5	86	435	23	26,74	IL6, TNF, JUN, FOS, CXCL8, CCL2, IL1B, ICAM1, TLR4, CXCL12, IL18, TLR2, IFNG, CXCL1, IL1A, TNFSF13B, CCL5, CSF2, CD80, CCL3, CD28, CD86, CCL20
KEGG: 05206	MicroRN As in cancer	4.0 2e- 08	7,4	30 6	435	47	15,36	MAPK3, TP53, PTGS2, MMP9, EGFR, CDKN1A, MAPK1, STAT3, CRK, CASP3, ERBB2, HRAS, HMOX1, SIRT1, RAF1, MTOR, KRAS, MAP2K1, PTEN, CD44, ABCB1, ABL1, MET, ATM, MDM2, DNMT1, EZH2, ERBB3, HDAC1, RPS6KA5, HNRNPK, RHOA, MIR203A, MIR107, NFKB1,

								DNMT3B, E2F1, MIR451A, BCL2L2, RPTOR, DNMT3A, IKBKB, WNT3A, CREBBP, TP63, IGF2BP1, HDAC2
KEGG: 05220	Chronic myeloid leukemia	4.3 6e- 08	7,4	73	435	21	28,77	AKT1, MAPK3, TP53, CDKN1A, MAPK1, CRK, HRAS, RAF1, KRAS, MAP2K1, RELA, ABL1, SMAD3, MDM2, HDAC1, NFKB1, E2F1, PTPN11, IKBKB, HDAC2, IKBKG
KEGG: 05332	Graft- versus- host disease	6.6 2e- 08	7,2	37	435	15	40,54	IL6, TNF, IL1B, FASLG, IFNG, IL2, IL1A, FAS, CD80, KIR3DL2, GZMB, HLA-A, PRF1, CD28, CD86
KEGG: 04640	Hematopoi etic cell lineage	1.0 8e- 07	7	91	435	23	25,27	IL6, TNF, IL1B, CD44, IL4, CD4, IL1A, CD9, CD8A, CSF3, ITGAM, CSF2, IL7, IL3, CD14, FCGR1A, IL2RA, MME, CD33, CD7, CD55, IL5, CD59
KEGG: 01524	Platinum drug resistance	1.3 2e- 07	6,9	70	435	20	28,57	AKT1, MAPK3, TP53, CDKN1A, MAPK1, CASP3, ERBB2, CYCS, ATM, CASP8, FASLG, MDM2, CASP9, MAP3K5, FAS, APAF1, BIRC3, FADD, PDPK1, ATP7A
KEGG: 05218	Melanoma	1.3 2e- 07	6,9	70	435	20	28,57	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, EGF, IGF1,

								HRAS, RAF1, FGF2, KRAS, MAP2K1, PTEN, CDH1, MET, MDM2, FGFR1, FGF7, E2F1
KEGG: 04613	Neutrophil extracellular trap formation	3.9 2e-07	6,4	184	435	33	17,93	AKT1, MAPK3, MAPK1, MAPK14, RAF1, MTOR, SRC, MAP2K1, RELA, TLR4, MPO, HMGB1, TLR2, CASP1, HDAC1, FPR2, CYBB, ATG7, ITGAM, NFKB1, C5AR1, TLR7, C3, C5, FCGR2A, RAC1, FCGR1A, MAP3K7, AZU1, RAC2, PADI4, HDAC2, ELANE
KEGG: 04917	Prolactin signaling pathway	3.9 7e-07	6,4	67	435	19	28,36	AKT1, MAPK3, ESR1, MAPK1, MAPK14, STAT3, FOS, INS, HRAS, RAF1, KRAS, SRC, MAP2K1, RELA, MAPK8, STAT1, SOCS3, NFKB1, IRF1
KEGG: 04935	Growth hormone synthesis, secretion and action	4.0 3e-07	6,4	113	435	25	22,12	AKT1, MAPK3, MAPK1, MAPK14, STAT3, CRK, IGF1, FOS, HRAS, JUNB, RAF1, MTOR, KRAS, MAP2K1, CREB1, MAPK8, STAT1, IGFBP3, PTK2, MAP3K1, SOCS3, MAP2K4, MAP2K3, MAP2K6, CREBBP
KEGG: 05222	Small cell lung cancer	4.9 7e-07	6,3	90	435	22	24,44	AKT1, TP53, PTGS2, CDKN1A, CASP3, PTEN, RELA, NOS2, CYCS, FN1, CASP9, PTK2, TRAF1, APAF1, NFKB1, TRAF3, E2F1, TRAF6,

								BIRC3, IKBKB, RARB, IKBKG
KEGG: 05208	Chemical carcinogenesis - reactive oxygen species	5.72e-07	6,2	206	435	35	16,99	AKT1, MAPK3, NFE2L2, EGFR, JUN, MAPK1, MAPK14, EGF, FOS, HIF1A, HRAS, HMOX1, MT-CO2, RAF1, KRAS, SRC, MAP2K1, PTEN, RELA, MAPK8, ABL1, SOD1, MET, KEAP1, MAP3K5, PTK2, NFKB1, MAP2K4, PTPN1, NDUFA2, PTPN11, PDPK1, RAC1, IKBKB, IKBKG
KEGG: 05320	Autoimmune thyroid disease	7.29e-07	6,1	49	435	16	32,65	IL10, CD40LG, IL4, FASLG, CD40, IL2, IFNA1, FAS, CD80, GZMB, HLA-A, PRF1, CD28, CD86, IL5
KEGG: 04140	Autophagy - animal	9.81e-07	6	135	435	27	20	AKT1, MAPK3, MAPK1, INS, HIF1A, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, HMGB1, MAPK8, EIF2AK3, BECN1, SQSTM1, CFLAR, DAPK2, TSC2, ATG7, CTSB, ATG5, TRAF6, RPTOR, PDPK1, MAP3K7, ERN1

KEGG: 05010	Alzheimer disease	1.6 3e- 06	5,8	35 3	435	48	13,6	AKT1, MAPK3, PTGS2, IL6, TNF, MAPK1, INS, CASP3, HRAS, MT-CO2, RAF1, MTOR, KRAS, APOE, MAP2K1, IL1B, RELA, APP, NOS2, CYCS, MAPK8, BACE1, PSMD9, CASP8, EIF2AK3, CASP9, BECN1, MAP3K5, PSMD1, IL1A, SNCA, FAS, CYBB, EIF2AK2, APAF1, XBP1, NFKB1, LRP1, TNFRSF1A, GAPDH, FADD, NDUFA2, MME, IKBKB, WNT3A, GRM5, ERN1, IKBKG
KEGG: 05146	Amoebiasis	2.2 0e- 06	5,7	97	435	22	22,68	IL6, TNF, CASP3, CXCL8, IL1B, RELA, TLR4, IL10, NOS2, FN1, TLR2, IFNG, CXCL1, PTK2, RAB5A, ITGAM, CSF2, NFKB1, ARG1, COL1A1, ARG2, CD14
KEGG: 05224	Breast cancer	3.5 6e- 06	5,4	14 3	435	27	18,88	AKT1, MAPK3, TP53, EGFR, CDKN1A, JUN, ESR1, MAPK1, EGF, IGF1, FOS, ERBB2, HRAS, RAF1, MTOR, FGF2, KRAS, MAP2K1, PTEN, SP1, FGFR1, FGF7, HES1, HEY2, E2F1, JAG1, WNT3A

KEGG: 05207	Chemical carcinogenesis - receptor activation	4.3 2e- 06	5,4	20 2	435	33	16,34	AKT1, MAPK3, EGFR, JUN, ESR1, MAPK1, STAT3, EGF, FOS, HRAS, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, RELA, CREB1, PPARA, HSP90AA1, RPS6KA3, RPS6KA1, UGT1A1, UGT1A8, AIP, UGT1A6, RPS6KA2, FGF7, NFKB1, VDR, E2F1, JAG1, BCL6
KEGG: 05230	Central carbon metabolism in cancer	4.3 7e- 06	5,4	69	435	18	26,09	AKT1, MAPK3, TP53, EGFR, MAPK1, ERBB2, HIF1A, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, MET, FGFR2, HK2, FGFR1, PKM
KEGG: 04520	Adherens junction	4.3 7e- 06	5,4	69	435	18	26,09	MAPK3, EGFR, MAPK1, ERBB2, SRC, CDH1, MET, SMAD3, TJP1, FGFR1, FYN, RHOA, CDC42, PTPN1, RAC1, MAP3K7, RAC2, CREBBP
KEGG: 04931	Insulin resistance	7.0 3e- 06	5,2	10 3	435	22	21,36	AKT1, IL6, TNF, STAT3, INS, MTOR, PTEN, RELA, CREB1, PPARA, MAPK8, RPS6KA3, RPS6KA1, FOXO1, RPS6KA2, SOCS3, NFKB1, TNFRSF1A, PTPN1, PTPN11, PDPK1, IKBKB
KEGG: 04370	VEGF signaling pathway	8.2 2e- 06	5,1	57	435	16	28,07	AKT1, MAPK3, PTGS2, MAPK1, MAPK14, HRAS, RAF1, KRAS, SRC, MAP2K1, CASP9,

								SPHK1, PTK2, CDC42, RAC1, RAC2
KEGG: 05213	Endometrial cancer	8.2 2e-06	5,1	57	435	16	28,07	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, EGF, ERBB2, HRAS, RAF1, KRAS, MAP2K1, PTEN, CDH1, CASP9, PDPK1
KEGG: 04115	p53 signaling pathway	8.9 5e-06	5	72	435	18	25	TP53, CDKN1A, IGF1, CASP3, PTEN, TNFRSF10B, CYCS, SERPINE1, ATM, CASP8, MDM2, CASP9, CDK1, IGFBP3, TNFRSF10A, FAS, TSC2, APAF1
KEGG: 05211	Renal cell carcinoma	1.0 1e-05	5	65	435	17	26,15	AKT1, MAPK3, CDKN1A, JUN, MAPK1, CRK, HIF1A, HRAS, RAF1, KRAS, MAP2K1, MET, PAK1, CDC42, PTPN11, RAC1, CREBBP
KEGG: 05310	Asthma	1.3 1e-05	4,9	27	435	11	40,74	TNF, IL10, CD40LG, IL4, RNASE3, CD40, IL13, CCL11, EPX, IL3, IL5
KEGG: 04510	Focal adhesion	1.5 0e-05	4,8	19 2	435	31	16,15	AKT1, MAPK3, EGFR, JUN, MAPK1, EGF, CRK, IGF1, ERBB2, HRAS, RAF1, SRC, MAP2K1, PTEN, CAV1, SPP1, MAPK8, FN1, MET, PTK2, PAK1, FYN, RHOA, CDC42, BIRC3, COL1A1, COL2A1, PDPK1, RAC1, VASP, RAC2

KEGG: 04015	Rap1 signaling pathway	1.6 5e- 05	4,8	20 3	435	32	15,76	AKT1, MAPK3, EGFR, MAPK1, MAPK14, EGF, CRK, IGF1, INS, HRAS, RAF1, FGF2, KRAS, SRC, MAP2K1, CDH1, MET, FGFR2, F2R, ID1, FGFR1, FGF7, RHOA, CDC42, ITGAM, RAPGEF3, MAP2K3, F2RL3, RAC1, MAP2K6, VASP, RAC2
KEGG: 05143	African trypanoso miasis	3.2 4e- 05	4,5	35	435	12	34,29	IL6, TNF, IL1B, ICAM1, IL10, IL18, FASLG, VCAM1, IFNG, FAS, MYD88, IDO1
KEGG: 04071	Sphingolip id signaling pathway	4.6 6e- 05	4,3	11 4	435	22	19,3	AKT1, MAPK3, TP53, TNF, MAPK1, MAPK14, HRAS, RAF1, KRAS, MAP2K1, PTEN, RELA, MAPK8, SPHK1, MAP3K5, FYN, RHOA, NFKB1, TNFRSF1A, PDPK1, RAC1, RAC2
KEGG: 04014	Ras signaling pathway	5.9 3e- 05	4,2	22 5	435	33	14,67	AKT1, MAPK3, EGFR, MAPK1, EGF, IGF1, INS, BDNF, HRAS, RAF1, FGF2, KRAS, MAP2K1, RELA, MAPK8, ABL1, MET, FASLG, FGFR2, FGFR1, PAK1, FGF7, RAB5A, RHOA, CDC42, NFKB1, RALBP1, PTPN11, RAC1, STK4, IKBKB, RAC2, IKBKG
KEGG: 04672	Intestinal immune network for IgA	7.3 4e- 05	4,1	44	435	13	29,55	IL6, IL10, CXCR4, CD40LG, IL4, CXCL12, CD40, IL2, TNFSF13B, CD80, CD28, CD86, IL5

	production							
KEGG: 04919	Thyroid hormone signaling pathway	8.6 7e- 05	4,1	11 8	435	22	18,64	AKT1, MAPK3, TP53, ESR1, MAPK1, HIF1A, HRAS, RAF1, MTOR, KRAS, SRC, MAP2K1, MDM2, CASP9, STAT1, FOXO1, HDAC1, TSC2, PDPK1, MED12, CREBBP, HDAC2
KEGG: 04670	Leukocyte transendothelial migration	1.0 3e- 04	4	11 0	435	21	19,09	MMP9, MAPK14, MMP2, ICAM1, CXCR4, CXCL12, VCAM1, PECAM1, PTK2, OCLN, CYBB, CLDN1, RHOA, CDC42, ITGAM, RAPGEF3, CLDN7, PTPN11, RAC1, VASP, RAC2
KEGG: 05022	Pathways of neurodegeneration - multiple diseases	1.1 7e- 04	3,9	44 2	435	51	11,54	MAPK3, PTGS2, IL6, TNF, MAPK1, MAPK14, CASP3, BDNF, HRAS, MT-CO2, RAF1, MTOR, KRAS, MAP2K1, IL1B, RELA, APP, NOS2, CYCS, MAPK8, SOD1, DCTN6, PSMD9, CASP8, FASLG, EIF2AK3, CASP9, BECN1, PRNP, SQSTM1, MAP3K5, PSMD1, IL1A, SNCA, FAS, CYBB, DCTN4, RAB5A, UBE2L3, APAF1, XBP1, NFKB1, TNFRSF1A, FADD, MAP2K3, NDUFA2,

								RAC1, MAP2K6, WNT3A, GRM5, ERN1
KEGG: 05231	Choline metabolism in cancer	1.39e-04	3,9	94	435	19	20,21	AKT1, MAPK3, EGFR, JUN, MAPK1, EGF, FOS, HIF1A, HRAS, RAF1, MTOR, KRAS, MAP2K1, MAPK8, SP1, TSC2, PDPK1, RAC1, RAC2
KEGG: 04211	Longevity regulating pathway	1.56e-04	3,8	86	435	18	20,93	AKT1, TP53, IGF1, INS, HRAS, SIRT1, MTOR, KRAS, RELA, PPARG, CREB1, FOXO1, TSC2, NFKB1, ATG5, EIF4E, RPTOR, EHMT1
KEGG: 04150	mTOR signaling pathway	1.57e-04	3,8	151	435	25	16,56	AKT1, MAPK3, TNF, MAPK1, IGF1, INS, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, RPS6KA3, RPS6KA1, RPS6KA2, TSC2, RHOA, TNFRSF1A, EIF4E, RICTOR, RPTOR, PDPK1, IKBKB, WNT3A, MAPKAP1
KEGG: 04926	Relaxin signaling pathway	1.81e-04	3,7	123	435	22	17,89	AKT1, MAPK3, MMP9, EGFR, JUN, MAPK1, MAPK14, FOS, MMP2, HRAS, RAF1, KRAS, SRC, MAP2K1, RELA, CREB1, NOS2, MAPK8, MMP13, NFKB1, MAP2K4, COL1A1

KEGG: 05226	Gastric cancer	2.0 0e- 04	3,7	14 3	435	24	16,78	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, EGF, ERBB2, HRAS, RAF1, MTOR, FGF2, KRAS, MAP2K1, CDH1, ABCB1, MET, SMAD3, FGFR2, FGF7, TERT, E2F1, WNT3A, RARB
KEGG: 05214	Glioma	2.1 5e- 04	3,7	71	435	16	22,54	AKT1, MAPK3, TP53, EGFR, CDKN1A, MAPK1, EGF, IGF1, HRAS, RAF1, MTOR, KRAS, MAP2K1, PTEN, MDM2, E2F1
KEGG: 04915	Estrogen signaling pathway	2.4 0e- 04	3,6	12 5	435	22	17,6	AKT1, MAPK3, MMP9, EGFR, JUN, ESR1, MAPK1, FOS, MMP2, HRAS, RAF1, KRAS, SRC, MAP2K1, CREB1, SP1, HSP90AA1, HSPA1A, OPRM1, FKBP4, RARA, FKBP5
KEGG: 04213	Longevity regulating pathway - multiple species	4.0 0e- 04	3,4	58	435	14	24,14	AKT1, IGF1, INS, HRAS, SIRT1, MTOR, KRAS, SOD1, HSPA1A, FOXO1, HDAC1, ATG5, RPTOR, HDAC2
KEGG: 04072	Phospholipase D signaling pathway	4.2 2e- 04	3,4	13 9	435	23	16,55	AKT1, MAPK3, EGFR, MAPK1, EGF, INS, HRAS, CXCL8, RAF1, MTOR, KRAS, MAP2K1, F2R, AGTR1, SPHK1, TSC2, FYN, RHOA, RAPGEF3, CXCR2, PTPN11, CXCR1, GRM5

KEGG: 04920	Adipocytokine signaling pathway	7.2 7e-04	3,1	69	435	15	21,74	AKT1, TNF, STAT3, LEP, MTOR, RELA, PPARA, MAPK8, SOCS3, NFKB1, TNFRSF1A, NPY, PTPN11, IKBKB, IKBKG
KEGG: 04810	Regulation of actin cytoskeleton	7.5 2e-04	3,1	20 7	435	29	14,01	MAPK3, EGFR, MAPK1, EGF, CRK, INS, HRAS, RAF1, FGF2, KRAS, SRC, MAP2K1, CXCR4, CXCL12, FN1, FGFR2, F2R, FGFR1, PTK2, PAK1, FGF7, ARHGEF7, RHOA, CDC42, ITGAM, RAC1, CFL1, RAC2, ITGAX
KEGG: 04215	Apoptosis - multiple species	8.4 7e-04	3,1	32	435	10	31,25	CASP3, CYCS, MAPK8, CASP8, CASP9, BECN1, APAF1, TNFRSF1A, BIRC3, FADD
KEGG: 04912	GnRH signaling pathway	1.7 9e-03	2,7	92	435	17	18,48	MAPK3, EGFR, JUN, MAPK1, MAPK14, MMP2, HRAS, RAF1, KRAS, SRC, MAP2K1, MAPK8, MAP3K1, CDC42, MAP2K4, MAP2K3, MAP2K6
KEGG: 04610	Complement and coagulation cascades	1.8 3e-03	2,7	83	435	16	19,28	SERPINE1, F2R, PROC, F3, ITGAM, C5AR1, C3, C5, F2RL3, THBD, SERPINA1, PLG, CD46, CD55, CD59, ITGAX
KEGG: 04910	Insulin signaling pathway	1.8 5e-03	2,7	13 1	435	21	16,03	AKT1, MAPK3, MAPK1, CRK, INS, HRAS, RAF1, MTOR, KRAS, MAP2K1, MAPK8, FOXO1, HK2, TSC2, PKLR, SOCS3, EIF4E, RPTOR, PTPN1,

								PDPK1, IKBKB
KEGG: 04666	Fc gamma R- mediated phagocyto sis	2.4 1e- 03	2,6	94	435	17	18,09	AKT1, MAPK3, MAPK1, CRK, RAF1, MAP2K1, SPHK1, PAK1, CDC42, PTPRC, FCGR2A, RAC1, FCGR1A, AMPH, CFL1, VASP, RAC2
KEGG: 04662	B cell receptor signaling pathway	2.5 1e- 03	2,6	76	435	15	19,74	AKT1, MAPK3, JUN, MAPK1, FOS, HRAS, RAF1, KRAS, MAP2K1, RELA, NFKB1, RAC1, IKBKB, RAC2, IKBKG
KEGG: 05415	Diabetic cardiomyo pathy	2.6 0e- 03	2,6	18 7	435	26	13,9	AKT1, MMP9, MAPK14, INS, MMP2, MT-CO2, MTOR, PTEN, RELA, PARP1, PPARA, MAPK8, SP1, SMAD3, ACE, AGTR1, CYBB, NFKB1, REN, GAPDH, COL1A1, NDUFA2, TNNI3, RAC1, CPT2, RAC2
KEGG: 04914	Progesterone- mediated oocyte maturation	3.6 8e- 03	2,4	97	435	17	17,53	AKT1, MAPK3, MAPK1, MAPK14, IGF1, INS, RAF1, KRAS, MAP2K1, MAPK8, HSP90AA1, RPS6KA3, RPS6KA1, PLK1, CDK1, RPS6KA2, CCNA1
KEGG: 04930	Type II diabetes mellitus	3.9 7e- 03	2,4	45	435	11	24,44	MAPK3, TNF, MAPK1, INS, MTOR, MAPK8, HK2, PKLR, SOCS3, PKM, IKBKB
KEGG: 04137	Mitophagy - animal	4.0 3e- 03	2,4	70	435	14	20	TP53, JUN, HIF1A, HRAS, KRAS, SRC, RELA, MAPK8, SP1,

								EIF2AK3, BECN1, SQSTM1, E2F1, ATG5
KEGG: 04514	Cell adhesion molecules	7.1 2e-03	2,1	14 3	435	21	14,69	CDH1, ICAM1, CD40LG, CD40, VCAM1, CD274, CD4, PECAM1, OCLN, CD8A, CLDN1, SDC1, ITGAM, PDCD1, PTPRC, CD80, CLDN7, HLA-A, CD28, CADM1, CD86
KEGG: 05168	Herpes simplex virus 1 infection	9.7 6e-03	2	47 7	435	48	10,06	AKT1, TP53, IL6, TNF, CASP3, MTOR, SRC, CCL2, IL1B, RELA, CYCS, CASP8, FASLG, EIF2AK3, TLR2, CASP9, STAT1, IFNG, JAK1, IFNA1, FAS, TSC2, EIF2AK2, SOCS3, IRAK1, MYD88, APAF1, CCL5, NFKB1, TNFRSF1A, TRAF3, C3, TRAF6, C5, BIRC3, FADD, HLA-A, CALR, PTPN11, MAP3K7, STAT2, LTA, IKBKB, SRSF1, TAP1, IFNB1, IKBKG
KEGG: 04550	Signaling pathways regulating pluripotency of stem cells	1.8 8e-02	1,7	13 1	435	19	14,5	AKT1, MAPK3, MAPK1, MAPK14, STAT3, IGF1, HRAS, RAF1, FGF2, KRAS, MAP2K1, SMAD3, FGFR2, JAK1, ID1, FGFR1, JAK3, IL6ST, WNT3A
KEGG: 05216	Thyroid cancer	2.1 5e-02	1,7	37	435	9	24,32	MAPK3, TP53, CDKN1A, MAPK1, HRAS, KRAS, MAP2K1, CDH1, PPARG

KEGG: 04720	Long-term potentiation	3.2 2e- 02	1,5	65	435	12	18,46	MAPK3, MAPK1, HRAS, RAF1, KRAS, MAP2K1, RPS6KA3, RPS6KA1, RPS6KA2, RAPGEF3, GRM5, CREBBP
KEGG: 05020	Prion disease	3.6 5e- 02	1,4	24 3	435	28	11,52	MAPK3, IL6, TNF, MAPK1, MAPK14, CASP3, MT-CO2, IL1B, CAV1, CREB1, CYCS, MAPK8, SOD1, PSMD9, EIF2AK3, CASP9, HSPA1A, PRNP, PSMD1, IL1A, CYBB, FYN, APAF1, CCL5, C5, NDUFA2, RAC1, RAC2
KEGG: 04612	Antigen processing and presentation	4.3 2e- 02	1,4	67	435	12	17,91	TNF, CREB1, HSP90AA1, HSPA1A, IFNG, CD4, CD8A, CTSB, KIR3DL2, HLA-A, CALR, TAP1
KEGG: 04360	Axon guidance	4.4 5e- 02	1,4	17 4	435	22	12,64	MAPK3, MAPK1, HRAS, RAF1, KRAS, SRC, CXCR4, CXCL12, ABL1, MET, PTK2, PAK1, FYN, RHOA, NRP1, CDC42, PTPN11, PDPK1, RAC1, RHOD, CFL1, RAC2

TABLE S8: Pathways enriched (Reactome)

Term_ID	Function	P-value	-log10 Pvalue	Term Size	Query size	Intersection Size	Enrichment Score %	Positive Hits
REACT:R-HSA-1280215	Cytokine Signaling in Immune system	8.85e-61	60,1	705	491	150	21,28	AKT1, MAPK3, TP53, PTGS2, IL6, MMP9, TNF, CDKN1A, JUN, MAPK1, MAPK14, STAT3, CRK, GRAP2, FOS, MMP2, CASP3, HIF1A, HRAS, JUNB, CXCL8, HMOX1, FGF2, KRAS, CCL2, MAP2K1, IL1B, RELA, CD44, ICAM1, APP, CREB1, IL10, NOS2, CD40LG, IL4, HMGB1, MAPK8, SOD1, IL18, TIMP1, FN1, PSMD9, IFI27, FASLG, SMAD3, HSP90AA1, RPS6KA3, VCAM1, STAT1, RPS6KA1, IL13, FOXO1, CCL11, CASP1, OSM, IFNG, CD4, SQSTM1, CXCL10, JAK1, EIF4G1, IL2, CCR5, CXCL1, STAT6, PSMD1, IL1A, AIP, TNFSF13B, IFNA1, IL24, RPS6KA2, NUP62, EIF2AK2, IL17C, MX2, FYN, CSF3, RPS6KA5, SOCS3, IRAK1, JAK3, MYD88, CCL5, IL1RL1, SDC1, IL6ST, IL33, CDC42, OPRM1, ITGAM,

								CSF2, P4HB, NFKB1, IL7, TNFRSF1A, CCL22, IRF1, TNFRSF25, MAP2K4, TRAF3, IL3, IL17RA, SUMO1, EIF4E, TRAF6, IL22, MUC1, BIRC3, CD80, TSLP, MAP2K3, PTPN1, PIK3R2, HLA-A, CCL4, PTPN11, FCGR1A, MAP3K7, TNFSF12, ISG20, STAT2, ANXA2, IL2RA, BCL6, LTA, IFNL3, IKBKB, IL32, CFL1, MAP2K6, CCL3, MIF, TNFSF8, DUSP4, TNFSF9, CD70, CD86, CCL20, GBP1, IL5, IL1RN, ANXA1, IL1RAPL1, IFNB1, MX1, ITGAX, IKBKG
REA C:R- HSA - 4491 47	Signaling by Interleukins	1.4 6e- 56	55,8	46 0	491	119	25,87	AKT1, MAPK3, TP53, PTGS2, IL6, MMP9, TNF, CDKN1A, JUN, MAPK1, MAPK14, STAT3, CRK, FOS, MMP2, CASP3, HIF1A, JUNB, CXCL8, HMOX1, FGF2, CCL2, MAP2K1, IL1B, RELA, ICAM1, APP, CREB1, IL10, NOS2, IL4, HMGB1, MAPK8, SOD1, IL18, TIMP1, FN1, PSMD9, FASLG, SMAD3, HSP90AA1, RPS6KA3, VCAM1, STAT1, RPS6KA1, IL13, FOXO1, CCL11, CASP1, OSM, IFNG, CD4, SQSTM1,

								CXCL10, JAK1, IL2, CCR5, CXCL1, STAT6, PSMD1, IL1A, AIP, IL24, RPS6KA2, IL17C, FYN, CSF3, RPS6KA5, SOCS3, IRAK1, JAK3, MYD88, CCL5, IL1RL1, SDC1, IL6ST, IL33, CDC42, OPRM1, ITGAM, CSF2, P4HB, NFKB1, IL7, TNFRSF1A, CCL22, MAP2K4, IL3, IL17RA, TRAF6, IL22, MUC1, CD80, TSLP, MAP2K3, PIK3R2, CCL4, PTPN11, MAP3K7, STAT2, ANXA2, IL2RA, BCL6, IFNL3, IKBKB, IL32, CFL1, MAP2K6, CCL3, MIF, DUSP4, CD86, CCL20, IL5, IL1RN, ANXA1, IL1RAPL1, ITGAX, IKBKG
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REA C:R- HSA - 1682 56	Immune System	3.1 7e- 56	55,5	20 41	491	248	12,15	AKT1, MAPK3, TP53, PTGS2, IL6, MMP9, TNF, CDKN1A, JUN, MAPK1, MAPK14, STAT3, CRK, GRAP2, RNF19A, FOS, MMP2, CASP3, HIF1A, HRAS, JUNB, CXCL8, HMOX1, RAF1, MTOR, FGF2, KRAS, CCL2, MAP2K1, PTEN, IL1B, CDH1, RELA, CD44, ICAM1, APP, CREB1, TLR4, IL10, NOS2, CD40LG, IL4, CRP, MPO, HMGB1, MAPK8, ABL1, SOD1, IL18, NLRP3, TIMP1, FN1, HP, DCTN6, PSMD9, IFI27, RNASE3, CASP8, FASLG, SMAD3, HSP90AA1, RPS6KA3, TLR2, CASP9, VCAM1, STAT1, RPS6KA1, IL13, HSPA1A, FOXO1, CCL11, CASP1, TTR, CD274, OSM, IFNG, CD4, SQSTM1, MUC5AC, CXCL10, JAK1, EIF4G1, KEAP1, IL2, CCR5, AIM2, CXCL1, MUC5B, STAT6, PSMD1, KIF2A, PECAM1, IL1A, AIP, TNFSF13B, PTK2, RIPK3, IFNA1, PAK1, FPR2, CYBB, IL24, MAP3K1, DCTN4, RPS6KA2, NUP62, EIF2AK2, IL17C, MX2, FYN, CD8A, MUC15, CSF3, ATG7,
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							RPS6KA5, SOCS3, IRAK1, CAP1, JAK3, RHOA, UBE2L3, MYD88, APAF1, CCL5, GRN, IL1RL1, SDC1, IL6ST, IL33, CDC42, OPRM1, ITGAM, CSF2, DEFB1, PKM, P4HB, CTSB, NFKB1, IL7, TNFRSF1A, CCL22, IRF1, TNFRSF25, MAP2K4, TLR5, TRAF3, C5AR1, ARG1, ATG5, TLR7, EPX, C3, RIPK1, IL3, IL17RA, PDCD1, SUMO1, RAPGEF3, PTPRC, EIF4E, TRAF6, IL22, MUC1, C5, BIRC3, CD80, RICTOR, FADD, RBBP6, CXCR2, KIR3DL2, TSLP, MAP2K3, PTPN1, PIK3R2, COL1A1, FCGR2A, COL2A1, HLA- A, CCL4, CD14, CALR, PTPN11, PDPK1, RAC1, FCGR1A, MAP3K7, TNFSF12, CXCR1, ISG20, STAT2, LAMP1, ATP7A, ANXA2, CTSE, PTPN22, TXN, IL2RA, BCL6, NLRC4, CYLD, LTA, IFNL3, SERPINA1, MME, IKBKB, IL32, CFL1, MRC1, MAP2K6, CCL3, MIF, TNFSF8, DUSP4, TNFSF9, CD70, PYCARD, CD33, PPBP, CD46, CD28, CD86,
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								TAP1, KLRG1, CCL20, CD55, GBP1, SFTPA2, VTN, IL5, AZU1, VASP, RAC2, LGALS3, IL1RN, CREBBP, MAPKAP1, ANXA1, IL1RAPL1, IFNB1, TIRAP, CD59, MX1, SFTPA1, ITGAX, ELANE, IKBKG
REA C:R- HSA - 6785 807	Interleukin-4 and Interleukin- 13 signaling	5.4 0e- 28	27,3	11 0	491	44	40	AKT1, TP53, PTGS2, IL6, MMP9, TNF, CDKN1A, STAT3, FOS, MMP2, HIF1A, JUNB, CXCL8, HMOX1, FGF2, CCL2, IL1B, ICAM1, IL10, NOS2, IL4, IL18, TIMP1, FN1, FASLG, HSP90AA1, VCAM1, STAT1, IL13, FOXO1, CCL11, OSM, JAK1, STAT6, IL1A, SOCS3, JAK3, OPRM1, ITGAM, CCL22, MUC1, BCL6, ANXA1, ITGAX

REA C:R- HSA - 1625 82	Signal Transduction	2.7 8e- 26	25,6	25 23	491	225	8,92	AKT1, MAPK3, TP53, IL6, MMP9, EGFR, TNF, CDKN1A, JUN, ESR1, MAPK1, MAPK14, STAT3, EGF, CRK, GRAP2, IGF1, FOS, INS, MMP2, CASP3, BDNF, JUND, ERBB2, HIF1A, HRAS, LEP, JUNB, CXCL8, FOSB, CFTR, RAF1, MTOR, FGF2, KRAS, SRC, APOE, CCL2, MAP2K1, PTEN, CDH1, RELA, APP, PPARG, TNFRSF10B, CAV1, CREB1, CXCR4, PARP1, SPP1, AREG, CXCL12, MAPK8, ABL1, YBX1, SP1, SERPINE1, FN1, ABCA1, PSMD9, MET, CASP8, FASLG, GAST, SMAD3, COL11A2, HSP90AA1, RPS6KA3, MDM2, CASP9, TNFSF10, CCR7, STAT1, RPS6KA1, GLI1, ALK, FOXO1, CCL11, CD274, EZH2, GRP, SQSTM1, CXCL10, PLK1, CFLAR, F2R, JAK1, EIF4G1, IL2, CCR5, TJP1, ID1, CDK1, CXCL1, AGTR1, STAT6, SPHK1, KLK3, PSMD1, KLK2, TAC1, HDAC1, KIF2A, PTK2, TNFRSF10A, PAK1, FPR2, FAS, CYBB, RPS6KA2, TSC2, FGF7,
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							KHDRBS1, FYN, HES1, KDM1A, RPS6KA5, TERT, SOCS3, HEY2, IRAK1, F3, TRAF1, ARHGEF7, JAK3, RHOA, MYD88, CCL5, IL1RL1, NRP1, IL33, CDC42, NRG1, OPRM1, CSF2, P4HB, ALDH1A3, FKBP4, NFKB1, TNFRSF1A, CCL22, E2F1, C5AR1, HTR2A, NR3C1, C3, RIPK1, RHO, IL3, GRK2, CDK9, CXCR3, MDK, RAPGEF3, EIF4E, TRAF6, NR4A1, PHB, RALBP1, C5, BIRC3, CD80, RICTOR, FADD, RPTOR, RBBP6, CXCR2, PTPN1, GZMB, PIK3R2, C1QBP, COL1A1, F2RL3, JAG1, CTTN, COL2A1, NPY, XPO1, CCL4, ALDH1A1, PTPN11, PDPK1, RAC1, MAP3K7, CXCR1, RHOD, XCR1, CXCL9, STK4, IL2RA, STAG1, CYLD, IKBKB, IL32, CFL1, HNRNPC, CCL3, CCL4L2, DUSP4, GAL, WNT3A, PPBP, GRM5, PLG, CD28, CD86, RARB, CCL20, CD55, XCL2, CCL17, IL5, ID2, RAC2, RARA, CREBBP, MAPKAP1, IGF2BP1, ANXA1, GPS1, HDAC2,
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								CCR3, FKBP5, SPRY1, IKBKG
REA C:R- HSA - 6783 783	Interleukin- 10 signaling	1.2 9e- 22	21,9	45	491	27	60	PTGS2, IL6, TNF, STAT3, CXCL8, CCL2, IL1B, ICAM1, IL10, IL18, TIMP1, CXCL10, JAK1, CCR5, CXCL1, IL1A, CSF3, CCL5, CSF2, TNFRSF1A, CCL22, CD80, CCL4, CCL3, CD86, CCL20, IL1RN

REA C:R- HSA - 1682 49	Innate Immune System	2.5 0e- 22	21,6	10 94	491	128	11,7	MAPK3, MMP9, JUN, MAPK1, MAPK14, CRK, GRAP2, FOS, HRAS, HMOX1, RAF1, MAP2K1, IL1B, RELA, CD44, APP, CREB1, TLR4, NOS2, CRP, MPO, HMGB1, MAPK8, ABL1, NLRP3, HP, PSMD9, RNASE3, CASP8, HSP90AA1, RPS6KA3, TLR2, CASP9, RPS6KA1, HSPA1A, CASP1, TTR, CD4, MUC5AC, AIM2, CXCL1, MUC5B, STAT6, PSMD1, PECAM1, PTK2, RIPK3, IFNA1, PAK1, FPR2, CYBB, MAP3K1, RPS6KA2, FYN, MUC15, ATG7, RPS6KA5, IRAK1, CAP1, RHOA, MYD88, APAF1, GRN, CDC42, ITGAM, DEFB1, PKM, CTSB, NFKB1, MAP2K4, TLR5, TRAF3, C5AR1, ARG1, ATG5, TLR7, EPX, C3, RIPK1, PTPRC, TRAF6, MUC1, C5, BIRC3, FADD, CXCR2, MAP2K3, PIK3R2, FCGR2A, CD14, PTPN11, PDPK1, RAC1, FCGR1A, MAP3K7, CXCR1, LAMP1, ATP7A, ANXA2, TXN, NLRC4, CYLD, SERPINA1, MME, IKBKB, CFL1, MAP2K6, MIF, DUSP4, PYCARD,
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								CD33, PPBP, CD46, CD55, SFTPA2, VTN, AZU1, RAC2, LGALS3, CREBBP, IFNB1, TIRAP, CD59, SFTPA1, ITGAX, ELANE, IKBKG
REA C:R- HSA - 1688 98	Toll-like Receptor Cascades	5.7 1e- 21	20,2	15 4	491	44	28,57	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, CASP8, RPS6KA3, TLR2, RPS6KA1, RIPK3, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, ITGAM, CTSB, NFKB1, MAP2K4, TLR5, TRAF3, TLR7, RIPK1, TRAF6, BIRC3, FADD, MAP2K3, CD14, PTPN11, MAP3K7, IKBKB, MAP2K6, DUSP4, SFTPA2, TIRAP, SFTPA1, IKBKG
REA C:R- HSA - 1660 16	Toll Like Receptor 4 (TLR4) Cascade	5.7 2e- 21	20,2	13 2	491	41	31,06	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, CASP8, RPS6KA3, TLR2, RPS6KA1, RIPK3,

								MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, ITGAM, NFKB1, MAP2K4, TRAF3, RIPK1, TRAF6, BIRC3, FADD, MAP2K3, CD14, PTPN11, MAP3K7, IKBKB, MAP2K6, DUSP4, SFTPA2, TIRAP, SFTPA1, IKBKG
REA C:R- HSA - 1661 66	MyD88- independent TLR4 cascade	3.3 6e- 19	18,5	96	491	34	35,42	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, CASP8, RPS6KA3, RPS6KA1, RIPK3, RPS6KA2, RPS6KA5, IRAK1, NFKB1, MAP2K4, TRAF3, RIPK1, TRAF6, BIRC3, FADD, MAP2K3, CD14, PTPN11, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 9370 61	TRIF(TICA M1)- mediated TLR4 signaling	3.3 6e- 19	18,5	96	491	34	35,42	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, CASP8, RPS6KA3, RPS6KA1, RIPK3, RPS6KA2, RPS6KA5, IRAK1, NFKB1, MAP2K4, TRAF3, RIPK1, TRAF6, BIRC3, FADD, MAP2K3, CD14, PTPN11, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG

REA C:R- HSA - 1814 38	Toll Like Receptor 2 (TLR2) Cascade	4.9 9e- 17	16,3	10 3	491	33	32,04	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, TLR2, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, SFTPA2, TIRAP, SFTPA1, IKBKG
REA C:R- HSA - 1681 79	Toll Like Receptor TLR1:TLR2 Cascade	4.9 9e- 17	16,3	10 3	491	33	32,04	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, TLR2, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, SFTPA2, TIRAP, SFTPA1, IKBKG
REA C:R- HSA - 2219 528	PI3K/AKT Signaling in Cancer	1.2 4e- 16	15,9	92	491	31	33,7	AKT1, EGFR, CDKN1A, ESR1, EGF, ERBB2, MTOR, FGF2, SRC, PTEN, CREB1, AREG, MET, MDM2, CASP9, FOXO1, TSC2, FGF7, FYN, NRG1, NR4A1, CD80, RICTOR, PIK3R2, PTPN11, PDPK1, RAC1, CD28, CD86, RAC2,

								MAPKAP1
REA C:R- HSA - 1681 64	Toll Like Receptor 3 (TLR3) Cascade	1.2 4e- 16	15,9	92	491	31	33,7	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, HMGB1, MAPK8, CASP8, RPS6KA3, RPS6KA1, RIPK3, RPS6KA2, RPS6KA5, IRAK1, NFKB1, MAP2K4, TRAF3, RIPK1, TRAF6, BIRC3, FADD, MAP2K3, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 9006 934	Signaling by Receptor Tyrosine Kinases	1.3 3e- 16	15,9	50 2	491	73	14,54	AKT1, MAPK3, MMP9, EGFR, ESR1, MAPK1, MAPK14, STAT3, EGF, CRK, GRAP2, IGF1, FOS, INS, BDNF, JUND, ERBB2, HIF1A, HRAS, JUNB, FOSB, MTOR, FGF2, SRC, APOE, MAP2K1, CAV1, CREB1, SPP1, AREG, CXCL12, FN1, MET, COL11A2, HSP90AA1, RPS6KA3, STAT1, RPS6KA1, ALK, CD274, ID1, STAT6, SPHK1, HDAC1, PTK2, PAK1, CYBB, RPS6KA2, FGF7, FYN, RPS6KA5, F3, ARHGEF7, JAK3, RHOA, NRP1, CDC42, NRG1, MDK, RICTOR, PTPN1, PIK3R2, COL1A1, COL2A1,

								PTPN11, PDPK1, RAC1, DUSP4, PLG, ID2, MAPKAP1, HDAC2, SPRY1
REA C:R- HSA - 9751 38	TRAF6 mediated induction of NFkB and MAP kinases upon TLR7/8 or 9 activation	4.7 4e- 16	15,3	89	491	30	33,71	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR7, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 9751 55	MyD88 dependent cascade initiated on endosome	6.8 1e- 16	15,2	90	491	30	33,33	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR7, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG

REA C:R- HSA - 1643 685	Disease	7.5 3e- 16	15,1	16 94	491	153	9,03	AKT1, MAPK3, TP53, IL6, EGFR, CDKN1A, JUN, ESR1, MAPK1, MAPK14, STAT3, EGF, CRK, ERBB2, HRAS, JUNB, HMOX1, CFTR, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, PTEN, IL1B, CDH1, RELA, APP, SYT1, CREB1, TLR4, IL10, CXCR4, NOS2, PARP1, AREG, HMGB1, MAPK8, ABL1, IL18, NLRP3, FN1, ABCA1, PSMD9, MET, ATM, CASP8, FASLG, EIF2AK3, SMAD3, NPM1, HSP90AA1, MDM2, TLR2, CASP9, DNMT1, STAT1, BECN1, HSPA1A, ALK, FOXO1, CASP1, TTR, EZH2, CD4, SQSTM1, FGFR2, MUC5AC, JAK1, CCR5, UGT1A1, FGFR1, MUC5B, PSMD1, HDAC1, IL1A, CD9, BGN, PTK2, NUP62, TSC2, EIF2AK2, GTF2H1, FGF7, FYN, MUC15, HES1, RAB5A, ATG7, KDM1A, CEBPB, BSG, HEY2, HNRNPK, JAK3, MYD88, SDC1, CDC42, NRG1, ABCA3, FKBP4, NFKB1, MAP2K4, TLR5, TRAF3, DNMT3B, E2F1, TLR7, NR3C1, C3, RIPK1,
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								PDCD1, CDK9, SUMO1, NR4A1, PHB, MUC1, CD80, RICTOR, FADD, PIK3R2, C1QBP, JAG1, DNMT3A, FCGR2A, XPO1, CD14, CALR, PTPN11, PDPK1, RAC1, FCGR1A, STAT2, TXN, MPRIP, IKBKB, MRC1, PYCARD, WNT3A, CD28, CD86, CD163, SFTPA2, RAC2, CREBBP, MAPKAP1, TIRAP, SFTPB, SFTPA1, HDAC2, DPEP2, IKBKG
REA C:R- HSA - 1681 81	Toll Like Receptor 7/8 (TLR7/8) Cascade	9.7 4e- 16	15	91	491	30	32,97	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR7, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 1257 604	PIP3 activates AKT signaling	1.0 6e- 15	15	25 2	491	49	19,44	AKT1, MAPK3, TP53, EGFR, CDKN1A, JUN, ESR1, MAPK1, EGF, INS, ERBB2, MTOR, FGF2, SRC, PTEN, PPARG, CREB1, AREG, PSMD9, MET, MDM2, CASP9, FOXO1, EZH2, PSMD1,

								HDAC1, TSC2, FGF7, FYN, KDM1A, IRAK1, MYD88, IL1RL1, IL33, NRG1, TRAF6, NR4A1, CD80, RICTOR, RPTOR, PIK3R2, PTPN11, PDPK1, RAC1, CD28, CD86, RAC2, MAPKAP1, HDAC2
REA C:R- HSA - 5218 859	Regulated Necrosis	1.3 2e- 15	14,9	55	491	24	43,64	TP53, CASP3, IL1B, TNFRSF10B, HMGB1, CYCS, IL18, CASP8, FASLG, HSP90AA1, TNFSF10, CASP1, IL1A, RIPK3, TNFRSF10A, FAS, MLKL, IRF1, RIPK1, BIRC3, FADD, GZMB, TP63, ELANE
REA C:R- HSA - 1681 88	Toll Like Receptor TLR6:TLR2 Cascade	1.9 7e- 15	14,7	10 0	491	31	31	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, TLR2, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, TIRAP, IKBKG
REA C:R- HSA - 1660 58	MyD88:MA L(TIRAP) cascade initiated on plasma membrane	1.9 7e- 15	14,7	10 0	491	31	31	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, TLR2, RPS6KA1, MAP3K1,

								RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, TIRAP, IKBKG
REA C:R- HSA - 1681 38	Toll Like Receptor 9 (TLR9) Cascade	2.7 6e- 15	14,6	94	491	30	31,91	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, TLR4, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR7, TRAF6, MAP2K3, CD14, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 5357 801	Programmed Cell Death	7.6 1e- 15	14,1	20 5	491	43	20,98	AKT1, MAPK3, TP53, MAPK1, STAT3, CASP3, IL1B, CDH1, TNFRSF10B, TLR4, HMGB1, CYCS, MAPK8, IL18, PSMD9, CASP8, FASLG, HSP90AA1, CASP9, TNFSF10, CASP1, DNM1L, TJP1, PSMD1, IL1A, PTK2, RIPK3, TNFRSF10A, DAPK2, OCLN, FAS, APAF1, MLKL, IRF1, E2F1, RIPK1, BIRC3, FADD, GZMB, C1QBP, CD14, TP63, ELANE

REA C:R- HSA - 1681 42	Toll Like Receptor 10 (TLR10) Cascade	9.8 5e- 15	14	84	491	28	33,33	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR5, TRAF6, MAP2K3, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 1681 76	Toll Like Receptor 5 (TLR5) Cascade	9.8 5e- 15	14	84	491	28	33,33	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR5, TRAF6, MAP2K3, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 9758 71	MyD88 cascade initiated on plasma membrane	9.8 5e- 15	14	84	491	28	33,33	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, RELA, APP, CREB1, HMGB1, MAPK8, RPS6KA3, RPS6KA1, MAP3K1, RPS6KA2, RPS6KA5, IRAK1, MYD88, NFKB1, MAP2K4, TLR5, TRAF6, MAP2K3, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG

REA C:R- HSA - 5663 202	Diseases of signal transduction by growth factor receptors and second messengers	3.0 5e- 14	13,5	41 7	491	62	14,87	AKT1, MAPK3, EGFR, CDKN1A, ESR1, MAPK1, STAT3, EGF, ERBB2, HRAS, JUNB, RAF1, MTOR, FGF2, KRAS, SRC, MAP2K1, PTEN, CREB1, AREG, FN1, PSMD9, MET, EIF2AK3, SMAD3, NPM1, HSP90AA1, MDM2, CASP9, STAT1, ALK, FOXO1, SQSTM1, FGFR2, FGFR1, PSMD1, HDAC1, TSC2, FGF7, FYN, HES1, ATG7, CEBPB, HEY2, NRG1, NR4A1, PHB, CD80, RICTOR, PIK3R2, JAG1, PTPN11, PDPK1, RAC1, MPRIP, WNT3A, CD28, CD86, RAC2, CREBBP, MAPKAP1, HDAC2
REA C:R- HSA - 3801 08	Chemokine receptors bind chemokines	5.6 7e- 14	13,2	57	491	23	40,35	CXCL8, CCL2, CXCR4, CXCL12, CCR7, CCL11, CXCL10, CCR5, CXCL1, CCL5, CCL22, CXCR3, CXCR2, CCL4, CXCR1, XCR1, CXCL9, CCL3, PPBP, CCL20, XCL2, CCL17, CCR3
REA C:R- HSA - 9006 925	Intracellular signaling by second messengers	1.2 0e- 13	12,9	29 2	491	50	17,12	AKT1, MAPK3, TP53, EGFR, CDKN1A, JUN, ESR1, MAPK1, EGF, INS, ERBB2, MTOR, FGF2, SRC, PTEN, PPARG, CREB1, AREG, PSMD9, MET, MDM2, CASP9, FOXO1, EZH2, PSMD1,

								HDAC1, TSC2, FGF7, FYN, KDM1A, IRAK1, MYD88, IL1RL1, IL33, NRG1, GRK2, TRAF6, NR4A1, CD80, RICTOR, RPTOR, PIK3R2, PTPN11, PDPK1, RAC1, CD28, CD86, RAC2, MAPKAP1, HDAC2
REA C:R- HSA - 1994 18	Negative regulation of the PI3K/AKT network	1.2 2e- 12	11,9	99	491	28	28,28	AKT1, MAPK3, EGFR, ESR1, MAPK1, EGF, INS, ERBB2, FGF2, SRC, PTEN, AREG, MET, FGF7, FYN, IRAK1, MYD88, IL1RL1, IL33, NRG1, TRAF6, CD80, PIK3R2, PTPN11, RAC1, CD28, CD86, RAC2
REA C:R- HSA - 6811 558	PI5P, PP2A and IER3 Regulate PI3K/AKT Signaling	1.4 1e- 12	11,9	92	491	27	29,35	AKT1, MAPK3, EGFR, ESR1, MAPK1, EGF, INS, ERBB2, FGF2, SRC, AREG, MET, FGF7, FYN, IRAK1, MYD88, IL1RL1, IL33, NRG1, TRAF6, CD80, PIK3R2, PTPN11, RAC1, CD28, CD86, RAC2
REA C:R- HSA - 4484 24	Interleukin- 17 signaling	1.4 2e- 12	11,8	71	491	24	33,8	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, CREB1, MAPK8, RPS6KA3, RPS6KA1, RPS6KA2, IL17C, RPS6KA5, IRAK1, NFKB1, MAP2K4, IL17RA, TRAF6, MAP2K3, MAP3K7, IKBKB, MAP2K6,

								DUSP4, IKBKG
REA C:R- HSA - 1686 43	Nucleotide- binding domain, leucine rich repeat containing receptor (NLR) signaling pathways	7.2 2e- 12	11,1	56	491	21	37,5	MAPK14, HMOX1, RELA, APP, NLRP3, CASP8, CASP9, CASP1, AIM2, IRAK1, NFKB1, TRAF6, BIRC3, MAP3K7, TXN, NLRC4, CYLD, IKBKB, MAP2K6, PYCARD, IKBKG
REA C:R- HSA - 4502 94	MAP kinase activation	9.5 7e- 12	11	63	491	22	34,92	MAPK3, JUN, MAPK1, MAPK14, FOS, MAP2K1, CREB1, MAPK8, RPS6KA3, RPS6KA1, RPS6KA2, RPS6KA5, IRAK1, NFKB1, MAP2K4, TRAF6, MAP2K3, MAP3K7, IKBKB, MAP2K6, DUSP4, IKBKG
REA C:R- HSA - 3752 76	Peptide ligand- binding receptors	4.2 6e- 11	10,4	19 5	491	37	18,97	CXCL8, CCL2, APP, CXCR4, CXCL12, CCR7, CCL11, GRP, CXCL10, F2R, CCR5, CXCL1, AGTR1, TAC1, FPR2, CCL5, OPRM1, CCL22, C5AR1, C3, CXCR3, C5, CXCR2, F2RL3, NPY, CCL4, CXCR1, XCR1, CXCL9, CCL3, GAL, PPBP, CCL20, XCL2, CCL17, ANXA1, CCR3

REA C:R- HSA - 4466 52	Interleukin-1 family signaling	3.1 6e- 10	9,5	13 9	491	30	21,58	STAT3, MAP2K1, IL1B, RELA, APP, IL4, HMGB1, MAPK8, IL18, PSMD9, SMAD3, IL13, CASP1, SQSTM1, PSMD1, IL1A, IRAK1, MYD88, IL1RL1, IL33, NFKB1, MAP2K4, TRAF6, PTPN11, MAP3K7, IKBKB, MAP2K6, IL1RN, IL1RAPL1, IKBKG
REA C:R- HSA - 7388 7	Death Receptor Signalling	3.8 5e- 10	9,4	14 0	491	30	21,43	TNF, CASP3, RELA, TNFRSF10B, MAPK8, CASP8, FASLG, TNFSF10, SQSTM1, CFLAR, HDAC1, TNFRSF10A, FAS, IRAK1, TRAF1, ARHGEF7, RHOA, MYD88, NFKB1, TNFRSF1A, RIPK1, TRAF6, BIRC3, FADD, RAC1, MAP3K7, CYLD, IKBKB, HDAC2, IKBKG
REA C:R- HSA - 1095 81	Apoptosis	1.3 9e- 09	8,9	17 6	491	33	18,75	AKT1, MAPK3, TP53, MAPK1, STAT3, CASP3, CDH1, TNFRSF10B, TLR4, HMGB1, CYCS, MAPK8, PSMD9, CASP8, FASLG, CASP9, TNFSF10, DNM1L, TJP1, PSMD1, PTK2, TNFRSF10A, DAPK2, OCLN, FAS, APAF1, E2F1, RIPK1, FADD, GZMB, C1QBP, CD14, TP63

REA C:R- HSA - 5357 769	Caspase activation via extrinsic apoptotic signalling pathway	5.2 1e- 09	8,3	25	491	13	52	CASP3, TNFRSF10B, TLR4, CASP8, FASLG, CASP9, TNFSF10, TNFRSF10A, DAPK2, FAS, RIPK1, FADD, CD14
REA C:R- HSA - 3893 56	CD28 co- stimulation	9.5 4e- 09	8	31	491	14	45,16	AKT1, GRAP2, MTOR, PAK1, FYN, CDC42, CD80, RICTOR, PIK3R2, PDPK1, RAC1, CD28, CD86, MAPKAP1
REA C:R- HSA - 2124 36	Generic Transcription Pathway	9.5 9e- 09	8	12 21	491	106	8,68	AKT1, MAPK3, TP53, IL6, EGFR, CDKN1A, JUN, ESR1, MAPK1, MAPK14, FOS, INS, BDNF, ERBB2, JUNB, MT-CO2, SIRT1, MTOR, KRAS, SRC, APOE, PTEN, RELA, PPARG, TNFRSF10B, CAV1, CREB1, PARP1, PPARA, SPP1, CYCS, ABL1, SP1, SERPINE1, MMP13, PSMD9, MET, ATM, FASLG, SMAD3, NPM1, MDM2, STAT1, FOXO1, CASP1, EZH2, IFNG, GRP, IL2, TJP1, CDK1, PSMD1, HDAC1, IGFBP3, TNFRSF10A, OCLN, FAS, TSC2, GTF2H1, HES1, CEBPB, SOCS3, HEY2, IRAK1, APAF1, OPRM1, CSF2, NFKB1, LRPPRC, VDR, E2F1, FOXP3, NR3C1, IL3, CDK9, HSPD1, SUMO1,

								NR4A1, RICTOR, RPTOR, PTPN1, COL1A1, NR0B2, JAG1, NPY, NR2C2, PTPN11, PDPK1, TXN, IL2RA, BCL6, NLRC4, MAP2K6, MAF, RARB, GATA2, MED12, RARA, LGALS3, CCNA1, CREBBP, TP63, MAPKAP1, EHMT1, HDAC2, FKBP5
REA C:R- HSA - 9009 391	Extra-nuclear estrogen signaling	2.4 5e- 08	7,6	73	491	20	27,4	AKT1, MAPK3, MMP9, EGFR, ESR1, MAPK1, EGF, FOS, MMP2, HRAS, SRC, CAV1, CREB1, AREG, HSP90AA1, SPHK1, PTK2, PIK3R2, XPO1, PDPK1
REA C:R- HSA - 1405 34	Caspase activation via Death Receptors in the presence of ligand	4.5 6e- 08	7,3	15	491	10	66,67	TNFRSF10B, TLR4, CASP8, FASLG, TNFSF10, TNFRSF10A, FAS, RIPK1, FADD, CD14
REA C:R- HSA - 1665 20	Signaling by NTRKs	8.2 6e- 08	7,1	13 1	491	26	19,85	MAPK3, MAPK1, MAPK14, STAT3, CRK, FOS, BDNF, JUND, HRAS, JUNB, FOSB, SRC, MAP2K1, CREB1, RPS6KA3, RPS6KA1, ID1, RPS6KA2, RPS6KA5, F3, RHOA, PIK3R2, PTPN11, RAC1, DUSP4, ID2

REA C:R- HSA - 2559 583	Cellular Senescence	1.1 5e- 07	6,9	19 5	491	32	16,41	MAPK3, TP53, IL6, CDKN1A, JUN, MAPK1, MAPK14, STAT3, FOS, CXCL8, RELA, MAPK8, SP1, ATM, RPS6KA3, MDM2, RPS6KA1, EZH2, ID1, MAP3K5, IL1A, RPS6KA2, CEBPB, NFKB1, MAP2K4, E2F1, MAP2K3, TXN, MAP2K6, CCNA1, IFNB1, EHMT1
REA C:R- HSA - 8953 897	Cellular responses to stimuli	1.7 0e- 07	6,8	76 5	491	74	9,67	MAPK3, TP53, IL6, NFE2L2, CDKN1A, JUN, MAPK1, MAPK14, STAT3, FOS, HIF1A, CXCL8, HMOX1, MT-CO2, SIRT1, MTOR, CCL2, RELA, HSPA4, CREB1, TLR4, PPARA, CYCS, MAPK8, SOD1, NLRP3, SP1, DCTN6, PSMD9, ATM, EIF2AK3, HSP90AA1, RPS6KA3, MDM2, ALB, RPS6KA1, HSPA1A, ATF3, EZH2, KEAP1, ID1, MAP3K5, PSMD1, MBTPS1, IL1A, CYBB, DCTN4, RPS6KA2, NUP62, HERPUD1, CEBPB, P4HB, FKBP4, NFKB1, LRPPRC, MAP2K4, E2F1, NR3C1, HSPA14, RPTOR, MAP2K3, CSRP1, XPO1, CALR, ATP7A, TXN, MAP2K6, HIF1AN, CCNA1, CREBBP, IFNB1, ERN1, EHMT1, FKBP5

REA C:R- HSA - 2262 752	Cellular responses to stress	1.8 3e- 07	6,7	75 1	491	73	9,72	MAPK3, TP53, IL6, NFE2L2, CDKN1A, JUN, MAPK1, MAPK14, STAT3, FOS, HIF1A, CXCL8, HMOX1, MT- CO2, SIRT1, MTOR, CCL2, RELA, HSPA4, CREB1, TLR4, PPARA, CYCS, MAPK8, SOD1, NLRP3, SP1, DCTN6, PSMD9, ATM, EIF2AK3, HSP90AA1, RPS6KA3, MDM2, ALB, RPS6KA1, HSPA1A, ATF3, EZH2, KEAP1, ID1, MAP3K5, PSMD1, MBTPS1, IL1A, CYBB, DCTN4, RPS6KA2, NUP62, HERPUD1, CEBPB, P4HB, FKBP4, NFKB1, LRPPRC, MAP2K4, E2F1, NR3C1, HSPA14, RPTOR, MAP2K3, XPO1, CALR, ATP7A, TXN, MAP2K6, HIF1AN, CCNA1, CREBBP, IFNB1, ERN1, EHMT1, FKBP5
REA C:R- HSA - 2219 530	Constitutive Signaling by Aberrant PI3K in Cancer	1.9 0e- 07	6,7	65	491	18	27,69	EGFR, ESR1, EGF, ERBB2, FGF2, SRC, AREG, MET, FGF7, FYN, NRG1, CD80, PIK3R2, PTPN11, RAC1, CD28, CD86, RAC2
REA C:R- HSA - 5674	Constitutive Signaling by AKT1 E17K in Cancer	2.0 0e- 07	6,7	26	491	12	46,15	AKT1, CDKN1A, MTOR, CREB1, MDM2, CASP9, FOXO1, TSC2, NR4A1, RICTOR, PDPK1, MAPKAP1

400								
REA C:R- HSA - 9660 826	Purinergic signaling in leishmaniasis infection	2.0 0e- 07	6,7	26	491	12	46,15	HMOX1, IL1B, RELA, APP, IL18, NLRP3, CASP1, IL1A, NFKB1, C3, TXN, PYCARD
REA C:R- HSA - 9664 424	Cell recruitment (pro- inflammatory response)	2.0 0e- 07	6,7	26	491	12	46,15	HMOX1, IL1B, RELA, APP, IL18, NLRP3, CASP1, IL1A, NFKB1, C3, TXN, PYCARD
REA C:R- HSA - 7600 2	Platelet activation, signaling and aggregation	2.3 6e- 07	6,6	25 8	491	37	14,34	AKT1, MAPK3, MAPK1, MAPK14, EGF, CRK, IGF1, RAF1, SRC, APP, SOD1, SERPINE1, TIMP1, FN1, ALB, ANXA5, F2R, PECAM1, CD9, PTK2, FYN, CAP1, RHOA, CDC42, RAPGEF3, PTPN1, PIK3R2, COL1A1, F2RL3, PTPN11, PDPK1, RAC1, SERPINA1, CFL1, PPBP, PLG, RAC2
REA C:R- HSA - 3888 41	Costimulation by the CD28 family	3.2 9e- 07	6,5	67	491	18	26,87	AKT1, GRAP2, MTOR, CD274, CD4, PAK1, FYN, CDC42, PDCD1, CD80, RICTOR, PIK3R2, PTPN11, PDPK1, RAC1, CD28, CD86, MAPKAP1

REA C:R- HSA - 5620 971	Pyroptosis	3.4 6e- 07	6,5	27	491	12	44,44	TP53, CASP3, IL1B, HMGB1, CYCS, IL18, CASP1, IL1A, IRF1, GZMB, TP63, ELANE
REA C:R- HSA - 1095 82	Hemostasis	3.7 2e- 07	6,4	67 2	491	67	9,97	AKT1, MAPK3, TP53, MAPK1, MAPK14, EGF, CRK, IGF1, HRAS, RAF1, SRC, CD44, APP, TNFRSF10B, CAV1, NOS2, ABL1, SOD1, SERPINE1, TIMP1, FN1, ALB, ANXA5, PSG1, F2R, HDAC1, KIF2A, PECAM1, CD9, PTK2, TNFRSF10A, IFNA1, FYN, PROC, RAB5A, KDM1A, BSG, CAP1, F3, RHOA, EPCAM, SDC1, CDC42, ITGAM, IRF1, RAPGEF3, PTPN1, PIK3R2, C1QBP, COL1A1, F2RL3, PTPN11, PDPK1, RAC1, ANXA2, THBD, SERPINA1, CFL1, MIF, PPBP, PLG, GATA2, RAC2, IFNB1, HDAC2, ITGAX
REA C:R- HSA - 5218 900	CASP8 activity is inhibited	3.8 6e- 07	6,4	10	491	8	80	TNFRSF10B, CASP8, FASLG, TNFSF10, TNFRSF10A, FAS, RIPK1, FADD

REA C:R- HSA - 6941 6	Dimerization of procaspase-8	3.8 6e- 07	6,4	10	491	8	80	TNFRSF10B, CASP8, FASLG, TNFSF10, TNFRSF10A, FAS, RIPK1, FADD
REA C:R- HSA - 3371 378	Regulation by c-FLIP	3.8 6e- 07	6,4	10	491	8	80	TNFRSF10B, CASP8, FASLG, TNFSF10, TNFRSF10A, FAS, RIPK1, FADD
REA C:R- HSA - 5675 482	Regulation of necroptotic cell death	5.8 0e- 07	6,2	28	491	12	42,86	TNFRSF10B, CASP8, FASLG, HSP90AA1, TNFSF10, RIPK3, TNFRSF10A, FAS, MLKL, RIPK1, BIRC3, FADD
REA C:R- HSA - 5213 460	RIPK1- mediated regulated necrosis	5.8 0e- 07	6,2	28	491	12	42,86	TNFRSF10B, CASP8, FASLG, HSP90AA1, TNFSF10, RIPK3, TNFRSF10A, FAS, MLKL, RIPK1, BIRC3, FADD
REA C:R- HSA - 5683 057	MAPK family signaling cascades	9.2 3e- 07	6	30 8	491	40	12,99	MAPK3, IL6, EGFR, JUN, MAPK1, EGF, ERBB2, HRAS, RAF1, FGF2, KRAS, SRC, MAP2K1, AREG, FN1, PSMD9, MET, FOXO1, JAK1, IL2, CDK1, PSMD1, PTK2, PAK1, FGF7, FYN, JAK3, CDC42, NRG1, CSF2, IL3, PHB, PIK3R2, XPO1, PTPN11, RAC1, IL2RA, DUSP4, IL5, IGF2BP1

REA C:R- HSA - 7385 7	RNA Polymerase II Transcription	1.1 8e- 06	5,9	13 42	491	107	7,97	AKT1, MAPK3, TP53, IL6, EGFR, CDKN1A, JUN, ESR1, MAPK1, MAPK14, FOS, INS, BDNF, ERBB2, JUNB, MT-CO2, SIRT1, MTOR, KRAS, SRC, APOE, PTEN, RELA, PPARG, TNFRSF10B, CAV1, CREB1, PARP1, PPARA, SPP1, CYCS, ABL1, SP1, SERPINE1, MMP13, PSMD9, MET, ATM, FASLG, SMAD3, NPM1, MDM2, STAT1, FOXO1, CASP1, EZH2, IFNG, GRP, IL2, TJP1, CDK1, PSMD1, HDAC1, IGFBP3, TNFRSF10A, OCLN, FAS, TSC2, GTF2H1, HES1, CEBPB, SOCS3, HEY2, IRAK1, APAF1, OPRM1, CSF2, NFKB1, LRPPRC, VDR, E2F1, FOXP3, NR3C1, IL3, CDK9, HSPD1, SUMO1, NR4A1, RICTOR, RPTOR, PTPN1, COL1A1, NR0B2, JAG1, NPY, NR2C2, PTPN11, PDPK1, TXN, IL2RA, BCL6, NLRC4, MAP2K6, SRSF1, MAF, RARB, GATA2, MED12, RARA, LGALS3, CCNA1, CREBBP, TP63, MAPKAP1, EHMT1, HDAC2, FKBP5
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REA C:R- HSA - 1689 28	DDX58/IFIH 1-mediated induction of interferon- alpha/beta	1.6 7e- 06	5,8	82	491	19	23,17	RELA, APP, HMGB1, CASP8, HSP90AA1, IFNA1, MAP3K1, NFKB1, TRAF3, ATG5, RIPK1, TRAF6, FADD, CYLD, IKBKB, CREBBP, IFNB1, IKBKG
REA C:R- HSA - 8939 211	ESR- mediated signaling	1.8 3e- 06	5,7	21 7	491	32	14,75	AKT1, MAPK3, MMP9, EGFR, JUN, ESR1, MAPK1, EGF, FOS, MMP2, JUND, HRAS, FOSB, SRC, CAV1, CREB1, AREG, CXCL12, SP1, HSP90AA1, SPHK1, HDAC1, PTK2, KDM1A, FKBP4, CDK9, PIK3R2, XPO1, PDPK1, STAG1, CREBBP, FKBP5
REA C:R- HSA - 9006 931	Signaling by Nuclear Receptors	2.0 5e- 06	5,7	29 1	491	38	13,06	AKT1, MAPK3, MMP9, EGFR, JUN, ESR1, MAPK1, EGF, FOS, MMP2, JUND, HRAS, FOSB, SRC, APOE, CAV1, CREB1, AREG, CXCL12, SP1, ABCA1, HSP90AA1, SPHK1, HDAC1, PTK2, KDM1A, ALDH1A3, FKBP4, CDK9, PIK3R2, XPO1, ALDH1A1, PDPK1, STAG1, RARB, RARA, CREBBP, FKBP5

REA C:R- HSA - 7416 0	Gene expression (Transcriptio n)	2.1 3e- 06	5,7	14 78	491	114	7,71	AKT1, MAPK3, TP53, IL6, EGFR, CDKN1A, JUN, ESR1, MAPK1, MAPK14, FOS, INS, BDNF, ERBB2, JUNB, MT-CO2, SIRT1, MTOR, KRAS, SRC, APOE, PTEN, RELA, PPARG, TNFRSF10B, CAV1, CREB1, PARP1, PPARG, SPP1, CYCS, ABL1, SP1, SERPINE1, MMP13, PSMD9, MET, ATM, FASLG, SMAD3, NPM1, HSP90AA1, MDM2, DNMT1, STAT1, FOXO1, CASP1, EZH2, IFNG, GRP, IL2, TJP1, CDK1, PSMD1, HDAC1, IGFBP3, TNFRSF10A, OCLN, FAS, NUP62, TSC2, GTF2H1, HES1, CEBPB, SOCS3, HEY2, IRAK1, APAF1, OPRM1, CSF2, NFKB1, LRPPRC, VDR, DNMT3B, E2F1, FOXP3, NR3C1, IL3, CDK9, HSPD1, SUMO1, NR4A1, RICTOR, RPTOR, PRKRA, PTPN1, COL1A1, NR0B2, JAG1, DNMT3A, NPY, NR2C2, PTPN11, PDPK1, TXN, IL2RA, BCL6, NLRC4, MAP2K6, SRSF1, MAF, RARB, GATA2, MED12, RARA, LGALS3, CCNA1, MBD2, CREBBP, TP63,
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								MAPKAP1, EHMT1, HDAC2, FKBP5
REA C:R- HSA - 9006 927	Signaling by Non- Receptor Tyrosine Kinases	2.2 7e- 06	5,6	51	491	15	29,41	AKT1, EGFR, STAT3, EGF, CRK, ERBB2, HIF1A, HRAS, KHDRBS1, SOCS3, RHOA, NRG1, NR3C1, PTPN1, RAC1
REA C:R- HSA - 8848 021	Signaling by PTK6	2.2 7e- 06	5,6	51	491	15	29,41	AKT1, EGFR, STAT3, EGF, CRK, ERBB2, HIF1A, HRAS, KHDRBS1, SOCS3, RHOA, NRG1, NR3C1, PTPN1, RAC1
REA C:R- HSA - 5602 358	Diseases associated with the TLR signaling cascade	2.3 7e- 06	5,6	31	491	12	38,71	RELA, TLR4, HMGB1, TLR2, MYD88, NFKB1, TLR5, TRAF3, CD14, IKBKB, TIRAP, IKBKG
REA C:R- HSA - 5260 271	Diseases of Immune System	2.3 7e- 06	5,6	31	491	12	38,71	RELA, TLR4, HMGB1, TLR2, MYD88, NFKB1, TLR5, TRAF3, CD14, IKBKB, TIRAP, IKBKG

REA C:R- HSA - 4502 82	MAPK targets/ Nuclear events mediated by MAP kinases	2.3 7e- 06	5,6	31	491	12	38,71	MAPK3, JUN, MAPK1, MAPK14, FOS, CREB1, MAPK8, RPS6KA3, RPS6KA1, RPS6KA2, RPS6KA5, DUSP4
REA C:R- HSA - 1870 37	Signaling by NTRK1 (TRKA)	2.6 6e- 06	5,6	11 2	491	22	19,64	MAPK3, MAPK1, MAPK14, STAT3, CRK, FOS, JUND, HRAS, JUNB, FOSB, MAP2K1, CREB1, RPS6KA3, RPS6KA1, ID1, RPS6KA2, RPS6KA5, F3, RHOA, PIK3R2, DUSP4, ID2
REA C:R- HSA - 8819 07	Gastrin- CREB signalling pathway via PKC and MAPK	3.5 8e- 06	5,4	16	491	9	56,25	MAPK3, EGFR, MAPK1, HRAS, CREB1, GAST, RPS6KA3, RPS6KA1, RPS6KA2
REA C:R- HSA - 6223 12	Inflammasom es	4.1 8e- 06	5,4	21	491	10	47,62	HMOX1, RELA, APP, NLRP3, CASP1, AIM2, NFKB1, TXN, NLRC4, PYCARD
REA C:R- HSA - 1987 25	Nuclear Events (kinase and transcription factor activation)	4.3 6e- 06	5,4	61	491	16	26,23	MAPK3, MAPK1, MAPK14, FOS, JUND, JUNB, FOSB, CREB1, RPS6KA3, RPS6KA1, ID1, RPS6KA2, RPS6KA5, F3, DUSP4, ID2
REA C:R- HSA	Intrinsic Pathway for Apoptosis	5.4 4e- 06	5,3	54	491	15	27,78	AKT1, MAPK3, TP53, MAPK1, STAT3, CASP3, CYCS, MAPK8, CASP8,

- 1096 06								CASP9, APAF1, E2F1, GZMB, C1QBP, TP63
REA C:R- HSA - 3893 57	CD28 dependent PI3K/Akt signaling	7.3 5e- 06	5,1	22	491	10	45,45	AKT1, MTOR, FYN, CD80, RICTOR, PIK3R2, PDPK1, CD28, CD86, MAPKAP1
REA C:R- HSA - 6798 695	Neutrophil degranulation	1.2 5e- 05	4,9	47 6	491	50	10,5	MMP9, MAPK1, MAPK14, CD44, MPO, HMGB1, HP, RNASE3, HSP90AA1, TLR2, HSPA1A, TTR, CXCL1, PSMD1, PECAM1, FPR2, CYBB, ATG7, CAP1, RHOA, APAF1, GRN, ITGAM, PKM, CTSB, NFKB1, C5AR1, ARG1, EPX, C3, PTPRC, CXCR2, FCGR2A, CD14, RAC1, CXCR1, LAMP1, ANXA2, SERPINA1, MME, MIF, PYCARD, CD33, PPBP, CD55, AZU1, LGALS3, CD59, ITGAX, ELANE
REA C:R- HSA - 1686 38	NOD1/2 Signaling Pathway	1.7 1e- 05	4,8	36	491	12	33,33	MAPK14, CASP8, CASP9, CASP1, IRAK1, TRAF6, BIRC3, MAP3K7, CYLD, IKBKB, MAP2K6, IKBKG
REA C:R- HSA - 3730	Class A/1 (Rhodopsin- like receptors)	1.7 9e- 05	4,7	32 8	491	39	11,89	CXCL8, CCL2, APP, CXCR4, CXCL12, CCR7, CCL11, GRP, CXCL10, F2R, CCR5, CXCL1, AGTR1, TAC1, FPR2,

76								CCL5, OPRM1, CCL22, C5AR1, HTR2A, C3, RHO, CXCR3, C5, CXCR2, F2RL3, NPY, CCL4, CXCR1, XCR1, CXCL9, CCL3, GAL, PPBP, CCL20, XCL2, CCL17, ANXA1, CCR3
REA C:R- HSA - 4420 097	VEGFA- VEGFR2 Pathway	1.8 4e- 05	4,7	94	491	19	20,21	AKT1, MAPK14, CRK, HRAS, MTOR, CAV1, HSP90AA1, SPHK1, PTK2, PAK1, CYBB, FYN, RHOA, CDC42, RICTOR, PIK3R2, PDPK1, RAC1, MAPKAP1
REA C:R- HSA - 1941 38	Signaling by VEGF	1.9 4e- 05	4,7	10 4	491	20	19,23	AKT1, MAPK14, CRK, HRAS, MTOR, CAV1, HSP90AA1, SPHK1, PTK2, PAK1, CYBB, FYN, RHOA, NRP1, CDC42, RICTOR, PIK3R2, PDPK1, RAC1, MAPKAP1
REA C:R- HSA - 9634 638	Estrogen- dependent nuclear events downstream of ESR- membrane signaling	2.0 5e- 05	4,7	24	491	10	41,67	AKT1, MAPK3, EGFR, MAPK1, EGF, FOS, CREB1, AREG, PTK2, XPO1
REA C:R- HSA - 4442	RSK activation	3.0 9e- 05	4,5	7	491	6	85,71	MAPK3, MAPK1, RPS6KA3, RPS6KA1, RPS6KA2, PDPK1

57								
REA C:R- HSA - 1059 683	Interleukin-6 signaling	5.8 1e- 05	4,2	11	491	7	63,64	IL6, STAT3, STAT1, JAK1, SOCS3, IL6ST, PTPN11
REA C:R- HSA - 3893 59	CD28 dependent Vav1 pathway	5.8 1e- 05	4,2	11	491	7	63,64	PAK1, FYN, CDC42, CD80, RAC1, CD28, CD86
REA C:R- HSA - 9020 702	Interleukin-1 signaling	6.1 7e- 05	4,2	10 1	491	19	18,81	MAP2K1, IL1B, RELA, APP, HMGB1, PSMD9, SQSTM1, PSMD1, IL1A, IRAK1, MYD88, NFKB1, MAP2K4, TRAF6, MAP3K7, IKBKB, MAP2K6, IL1RN, IKBKG
REA C:R- HSA - 8444 56	The NLRP3 inflammasom e	8.6 5e- 05	4,1	16	491	8	50	HMOX1, RELA, APP, NLRP3, CASP1, NFKB1, TXN, PYCARD
REA C:R- HSA - 9135 31	Interferon Signaling	9.5 5e- 05	4	19 3	491	27	13,99	MAPK3, CD44, ICAM1, IFI27, VCAM1, STAT1, IFNG, JAK1, EIF4G1, IFNA1, NUP62, EIF2AK2, MX2, SOCS3, IRF1, SUMO1, EIF4E, PTPN1, HLA-A, PTPN11, FCGR1A, ISG20, STAT2, GBP1, IFNB1, MX1

REA C:R- HSA - 5684 996	MAPK1/MA PK3 signaling	1.0 1e- 04	4	26 9	491	33	12,27	MAPK3, IL6, EGFR, MAPK1, EGF, ERBB2, HRAS, RAF1, FGF2, KRAS, SRC, MAP2K1, AREG, FN1, PSMD9, MET, JAK1, IL2, CDK1, PSMD1, PTK2, FGF7, FYN, JAK3, NRG1, CSF2, IL3, PHB, PIK3R2, PTPN11, IL2RA, DUSP4, IL5
REA C:R- HSA - 9614 085	FOXO- mediated transcription	1.0 2e- 04	4	66	491	15	22,73	AKT1, CDKN1A, INS, SIRT1, CAV1, FASLG, SMAD3, FOXO1, HDAC1, NR3C1, NPY, TXN, BCL6, CREBBP, HDAC2
REA C:R- HSA - 5621 481	C-type lectin receptors (CLRs)	1.0 4e- 04	4	13 6	491	22	16,18	HRAS, RAF1, IL1B, RELA, PSMD9, CASP8, MUC5AC, MUC5B, PSMD1, PAK1, FYN, MUC15, RPS6KA5, NFKB1, TRAF6, MUC1, PDPK1, MAP3K7, IKBKB, PYCARD, CREBBP, IKBKG
REA C:R- HSA - 7515 8	TRAIL signaling	1.1 9e- 04	3,9	8	491	6	75	TNFRSF10B, CASP8, TNFSF10, CFLAR, TNFRSF10A, FADD
REA C:R- HSA - 8940	RUNX2 regulates osteoblast differentiation	1.9 2e- 04	3,7	23	491	9	39,13	MAPK3, MAPK1, SRC, ABL1, GRP, HES1, HEY2, COL1A1, MAF

973								
REA C:R- HSA - 5633 008	TP53 Regulates Transcription of Cell Death Genes	2.0 6e- 04	3,7	44	491	12	27,27	TP53, TNFRSF10B, ATM, CASP1, IGFBP3, TNFRSF10A, FAS, APAF1, BCL6, NLRC4, CREBBP, TP63
REA C:R- HSA - 3727 90	Signaling by GPCR	2.2 4e- 04	3,6	69 3	491	61	8,8	AKT1, MAPK3, EGFR, MAPK1, HRAS, CXCL8, SRC, CCL2, APP, CREB1, CXCR4, CXCL12, GAST, RPS6KA3, CCR7, RPS6KA1, CCL11, GRP, CXCL10, F2R, CCR5, CXCL1, AGTR1, TAC1, PAK1, FPR2, RPS6KA2, ARHGEF7, RHOA, CCL5, CDC42, OPRM1, CCL22, C5AR1, HTR2A, C3, RHO, GRK2, CXCR3, C5, CXCR2, PIK3R2, F2RL3, NPY, CCL4, PDPK1, CXCR1, XCR1, CXCL9, CCL3, CCL4L2, GAL, WNT3A, PPBP, GRM5, CCL20, CD55, XCL2, CCL17, ANXA1, CCR3
REA C:R- HSA - 3700 989	Transcription al Regulation by TP53	2.4 8e- 04	3,6	36 2	491	39	10,77	AKT1, TP53, CDKN1A, JUN, MAPK14, FOS, MT- CO2, MTOR, PTEN, TNFRSF10B, CYCS, ATM, NPM1, MDM2, CASP1, CDK1, HDAC1, IGFBP3, TNFRSF10A, FAS, TSC2, GTF2H1,

								APAF1, LRPPRC, E2F1, CDK9, RICTOR, RPTOR, PDPK1, TXN, BCL6, NLRC4, MAP2K6, CCNA1, CREBBP, TP63, MAPKAP1, EHMT1, HDAC2
REA C:R- HSA - 9725 371	Nuclear events stimulated by ALK signaling in cancer	2.7 1e- 04	3,6	18	491	8	44,44	MAPK3, MAPK1, STAT3, JUNB, FN1, NPM1, ALK, CEBPB
REA C:R- HSA - 2562 578	TRIF-mediated programmed cell death	3.4 3e- 04	3,5	9	491	6	66,67	TLR4, CASP8, RIPK3, RIPK1, FADD, CD14
REA C:R- HSA - 4487 06	Interleukin-1 processing	3.4 3e- 04	3,5	9	491	6	66,67	IL1B, RELA, IL18, CASP1, IL1A, NFKB1
REA C:R- HSA - 1100 56	MAPK3 (ERK1) activation	3.4 3e- 04	3,5	9	491	6	66,67	MAPK3, IL6, MAP2K1, JAK1, CDK1, PTPN11
REA C:R- HSA - 3108 232	SUMO E3 ligases SUMOylate target proteins	3.9 1e- 04	3,4	17 0	491	24	14,12	TP53, ESR1, RELA, PPARG, PARP1, PPARG, NPM1, MDM2, DNMT1, HDAC1, NUP62, HNRNPK, VDR, DNMT3B, NR3C1,

								SUMO1, DNMT3A, STAG1, HNRNPC, RARA, CREBBP, HDAC2, SAFB, IKBKG
REA C:R- HSA - 8854 691	Interleukin- 20 family signaling	4.4 2e- 04	3,4	25	491	9	36	STAT3, STAT1, JAK1, IL24, JAK3, IL22, PTPN11, STAT2, IFNL3
REA C:R- HSA - 2015 56	Signaling by ALK	4.4 2e- 04	3,4	25	491	9	36	STAT3, HIF1A, ALK, CD274, HDAC1, JAK3, MDK, PIK3R2, HDAC2
REA C:R- HSA - 1280 218	Adaptive Immune System	4.6 7e- 04	3,3	80 6	491	67	8,31	AKT1, GRAP2, RNF19A, HRAS, RAF1, MTOR, PTEN, CDH1, RELA, ICAM1, TLR4, CD40LG, HMGB1, DCTN6, PSMD9, TLR2, VCAM1, CD274, CD4, KEAP1, PSMD1, KIF2A, PAK1, CYBB, DCTN4, FYN, CD8A, ATG7, SOCS3, UBE2L3, MYD88, CDC42, CTSE, NFKB1, C3, PDCD1, RAPGEF3, PTPRC, TRAF6, CD80, RICTOR, RBBP6, KIR3DL2, PIK3R2, COL1A1, COL2A1, HLA-A, CD14, CALR, PTPN11, PDPK1, RAC1, FCGR1A, MAP3K7, CTSE, PTPN22, IKBKB, MRC1, CD33,

								CD28, CD86, TAP1, KLRG1, VASP, MAPKAP1, TIRAP, IKBKG
REA C:R- HSA - 5660 668	CLEC7A/infl ammasome pathway	5.8 7e- 04	3,2	6	491	5	83,33	IL1B, RELA, CASP8, NFKB1, PYCARD
REA C:R- HSA - 4471 15	Interleukin- 12 family signaling	6.4 0e- 04	3,2	57	491	13	22,81	STAT3, IL10, SOD1, STAT1, IFNG, JAK1, AIP, IL6ST, CDC42, P4HB, ANXA2, CFL1, MIF
REA C:R- HSA - 5357 905	Regulation of TNFR1 signaling	6.6 8e- 04	3,2	33	491	10	30,3	TNF, CASP8, TRAF1, TNFRSF1A, RIPK1, BIRC3, FADD, CYLD, IKBKB, IKBKG
REA C:R- HSA - 5663 205	Infectious disease	7.0 8e- 04	3,2	91 6	491	73	7,97	MAPK3, IL6, EGFR, JUN, MAPK1, MAPK14, CRK, HMOX1, SRC, MAP2K1, IL1B, CDH1, RELA, APP, SYT1, CREB1, IL10, CXCR4, NOS2, PARP1, MAPK8, ABL1, IL18, NLRP3, PSMD9, MET, NPM1, HSP90AA1, TLR2, BECN1, HSPA1A, CASP1, EZH2, CD4, JAK1, CCR5, PSMD1,

								HDAC1, IL1A, CD9, PTK2, NUP62, EIF2AK2, GTF2H1, FYN, RAB5A, KDM1A, HNRNPK, JAK3, CDC42, FKBP4, NFKB1, MAP2K4, TLR7, NR3C1, C3, RIPK1, PDCD1, CDK9, SUMO1, FCGR2A, XPO1, CALR, RAC1, FCGR1A, STAT2, TXN, MRC1, PYCARD, CD28, CD163, HDAC2, DPEP2
REA C:R- HSA - 5621 575	CD209 (DC- SIGN) signaling	7.2 0e- 04	3,1	20	491	8	40	HRAS, RAF1, RELA, PAK1, FYN, RPS6KA5, NFKB1, CREBBP
REA C:R- HSA - 2990 846	SUMOylation	7.3 9e- 04	3,1	17 6	491	24	13,64	TP53, ESR1, RELA, PPARG, PARP1, PPARA, NPM1, MDM2, DNMT1, HDAC1, NUP62, HNRNPK, VDR, DNMT3B, NR3C1, SUMO1, DNMT3A, STAG1, HNRNPC, RARA, CREBBP, HDAC2, SAFB, IKBKG
REA C:R- HSA - 8878 166	Transcriptional regulation by RUNX2	7.6 0e- 04	3,1	11 8	491	19	16,1	AKT1, MAPK3, CDKN1A, ESR1, MAPK1, SRC, ABL1, MMP13, PSMD9, STAT1, GRP, CDK1, PSMD1, HES1, HEY2, NR3C1, COL1A1, MAF, LGALS3

REA C:R- HSA - 4503 41	Activation of the AP-1 family of transcription factors	8.2 3e- 04	3,1	10	491	6	60	MAPK3, JUN, MAPK1, MAPK14, FOS, MAPK8
REA C:R- HSA - 9097 33	Interferon alpha/beta signaling	9.3 4e- 04	3	68	491	14	20,59	IFI27, JAK1, IFNA1, MX2, SOCS3, IRF1, PTPN1, HLA-A, PTPN11, ISG20, STAT2, IFNB1, MX1
REA C:R- HSA - 5218 920	VEGFR2 mediated vascular permeability	9.3 5e- 04	3	27	491	9	33,33	AKT1, MTOR, CAV1, HSP90AA1, PAK1, RICTOR, PDPK1, RAC1, MAPKAP1
REA C:R- HSA - 7589 3	TNF signaling	9.8 5e- 04	3	42	491	11	26,19	TNF, CASP8, TRAF1, TNFRSF1A, RIPK1, BIRC3, FADD, MAP3K7, CYLD, IKBKB, IKBKG
REA C:R- HSA - 3883 96	GPCR downstream signalling	1.5 1e- 03	2,8	62 0	491	54	8,71	AKT1, MAPK3, EGFR, MAPK1, HRAS, CXCL8, SRC, APP, CREB1, CXCR4, CXCL12, GAST, RPS6KA3, CCR7, RPS6KA1, GRP, CXCL10, F2R, CCR5, CXCL1, AGTR1, TAC1, PAK1, FPR2, RPS6KA2, ARHGEF7, RHOA, CCL5, CDC42, OPRM1, C5AR1, HTR2A, C3, RHO, GRK2, CXCR3, C5, CXCR2,

								PIK3R2, F2RL3, NPY, CCL4, PDPK1, CXCR1, XCR1, CXCL9, CCL4L2, GAL, PPBP, GRM5, CCL20, XCL2, ANXA1, CCR3
REA C:R- HSA - 6804 757	Regulation of TP53 Degradation	1.6 2e- 03	2,8	36	491	10	27,78	AKT1, TP53, MTOR, ATM, MDM2, CDK1, RICTOR, PDPK1, CCNA1, MAPKAP1
REA C:R- HSA - 3814 26	Regulation of Insulin-like Growth Factor (IGF) transport and uptake by Insulin-like Growth Factor Binding Proteins (IGFBPs)	1.6 3e- 03	2,8	12 4	491	19	15,32	IL6, IGF1, MMP2, APOE, APP, SPP1, TIMP1, FN1, ALB, KLK3, KLK2, MBTPS1, IGFBP3, PROC, P4HB, C3, KLK1, SERPINA1, PLG
REA C:R- HSA - 1936 39	p75NTR signals via NF-kB	1.6 5e- 03	2,8	16	491	7	43,75	RELA, SQSTM1, IRAK1, MYD88, NFKB1, TRAF6, IKBKB
REA C:R- HSA - 9022 699	MECP2 regulates neuronal receptors and channels	1.6 5e- 03	2,8	16	491	7	43,75	CREB1, MET, HDAC1, OPRM1, PTPN1, HDAC2, FKBP5

REA C:R- HSA - 9370 41	IKK complex recruitment mediated by RIP1	1.6 8e- 03	2,8	22	491	8	36,36	TLR4, RIPK3, RIPK1, TRAF6, BIRC3, CD14, IKBKB, IKBKG
REA C:R- HSA - 1987 53	ERK/MAPK targets	1.6 8e- 03	2,8	22	491	8	36,36	MAPK3, MAPK1, MAPK14, RPS6KA3, RPS6KA1, RPS6KA2, RPS6KA5, DUSP4
REA C:R- HSA - 1124 09	RAF- independent MAPK1/3 activation	1.6 8e- 03	2,8	22	491	8	36,36	MAPK3, IL6, MAPK1, MAP2K1, JAK1, CDK1, PTPN11, DUSP4
REA C:R- HSA - 5673 001	RAF/MAP kinase cascade	1.8 4e- 03	2,7	26 4	491	30	11,36	MAPK3, EGFR, MAPK1, EGF, ERBB2, HRAS, RAF1, FGF2, KRAS, SRC, MAP2K1, AREG, FN1, PSMD9, MET, JAK1, IL2, PSMD1, PTK2, FGF7, FYN, JAK3, NRG1, CSF2, IL3, PHB, PIK3R2, IL2RA, DUSP4, IL5
REA C:R- HSA - 1999 20	CREB phosphorylati on	1.9 8e- 03	2,7	7	491	5	71,43	CREB1, RPS6KA3, RPS6KA1, RPS6KA2, RPS6KA5
REA C:R- HSA -	Regulation of TP53 Expression and	2.1 3e- 03	2,7	37	491	10	27,03	AKT1, TP53, MTOR, ATM, MDM2, CDK1, RICTOR, PDPK1, CCNA1, MAPKAP1

6806003	Degradation							
REA C:R- HSA - 9686 347	Microbial modulation of RIPK1-mediated regulated necrosis	2.2 5e- 03	2,6	4	491	4	100	CASP8, RIPK3, MLKL, RIPK1
REA C:R- HSA - 8941 326	RUNX2 regulates bone development	2.5 2e- 03	2,6	30	491	9	30	MAPK3, MAPK1, SRC, ABL1, GRP, HES1, HEY2, COL1A1, MAF
REA C:R- HSA - 5357 956	TNFR1-induced NFkappaB signaling pathway	2.5 2e- 03	2,6	30	491	9	30	TNF, TRAF1, TNFRSF1A, RIPK1, BIRC3, MAP3K7, CYLD, IKBKB, IKBKG
REA C:R- HSA - 1810 476	RIP-mediated NFkB activation via ZBP1	2.6 9e- 03	2,6	17	491	7	41,18	RELA, RIPK3, MYD88, NFKB1, RIPK1, IKBKB, IKBKG
REA C:R- HSA - 5129 88	Interleukin-3, Interleukin-5 and GM-CSF signaling	3.2 6e- 03	2,5	47	491	11	23,4	CRK, JAK1, IL2, FYN, JAK3, CSF2, IL3, PIK3R2, PTPN11, IL2RA, IL5
REA C:R- HSA -	TP53 Regulates Transcription of Death	3.3 5e- 03	2,5	12	491	6	50	TP53, TNFRSF10B, IGFBP3, TNFRSF10A, FAS, TP63

6803 211	Receptors and Ligands							
REA C:R- HSA - 8773 12	Regulation of IFNG signaling	3.3 5e- 03	2,5	12	491	6	50	IFNG, JAK1, SOCS3, SUMO1, PTPN1, PTPN11
REA C:R- HSA - 6803 207	TP53 Regulates Transcription of Caspase Activators and Caspases	3.3 5e- 03	2,5	12	491	6	50	TP53, ATM, CASP1, APAF1, NLRC4, TP63
REA C:R- HSA - 6783 589	Interleukin-6 family signaling	3.5 7e- 03	2,4	24	491	8	33,33	IL6, STAT3, STAT1, OSM, JAK1, SOCS3, IL6ST, PTPN11
REA C:R- HSA - 9126 94	Regulation of IFNA/IFNB signaling	3.5 7e- 03	2,4	24	491	8	33,33	JAK1, IFNA1, SOCS3, PTPN1, PTPN11, STAT2, IFNB1
REA C:R- HSA - 4459 89	TAK1- dependent IKK and NF- kappa-B activation	4.5 6e- 03	2,3	32	491	9	28,12	RELA, APP, HMGB1, IRAK1, NFKB1, TRAF6, MAP3K7, IKBKB, IKBKG
REA C:R- HSA -	TRAF6 mediated NF- kB activation	5.0 5e- 03	2,3	25	491	8	32	RELA, APP, HMGB1, MAP3K1, NFKB1, TRAF6, IKBKB, IKBKG

9335 42								
REA C:R- HSA - 5357 786	TNFR1- induced proapoptotic signaling	5.9 8e- 03	2,2	13	491	6	46,15	TNF, CASP8, TNFRSF1A, RIPK1, FADD, CYLD
REA C:R- HSA - 2095 60	NF-kB is activated and signals survival	5.9 8e- 03	2,2	13	491	6	46,15	RELA, SQSTM1, IRAK1, NFKB1, TRAF6, IKBKB
REA C:R- HSA - 1114 61	Cytochrome c-mediated apoptotic response	5.9 8e- 03	2,2	13	491	6	46,15	MAPK3, MAPK1, CASP3, CYCS, CASP9, APAF1
REA C:R- HSA - 2559 582	Senescence- Associated Secretory Phenotype (SASP)	6.1 3e- 03	2,2	11 2	491	17	15,18	MAPK3, IL6, CDKN1A, JUN, MAPK1, STAT3, FOS, CXCL8, RELA, RPS6KA3, RPS6KA1, IL1A, RPS6KA2, CEBPB, NFKB1, CCNA1, EHMT1
REA C:R- HSA - 5007 92	GPCR ligand binding	6.2 9e- 03	2,2	45 9	491	42	9,15	CXCL8, CCL2, APP, CXCR4, CXCL12, CCR7, CCL11, GRP, CXCL10, F2R, CCR5, CXCL1, AGTR1, TAC1, FPR2, CCL5, OPRM1, CCL22, C5AR1, HTR2A, C3, RHO, CXCR3, C5, CXCR2, F2RL3, NPY, CCL4, CXCR1, XCR1, CXCL9, CCL3, GAL,

								WNT3A, PPBP, GRM5, CCL20, CD55, XCL2, CCL17, ANXA1, CCR3
REA C:R- HSA - 1114 71	Apoptotic factor- mediated response	6.4 5e- 03	2,2	19	491	7	36,84	MAPK3, MAPK1, CASP3, CYCS, CASP9, APAF1, C1QBP
REA C:R- HSA - 3541 92	Integrin signaling	7.0 0e- 03	2,2	26	491	8	30,77	AKT1, CRK, SRC, FN1, PTK2, RAPGEF3, PTPN1, PDPK1
REA C:R- HSA - 9125 26	Interleukin receptor SHC signaling	7.0 0e- 03	2,2	26	491	8	30,77	JAK1, IL2, JAK3, CSF2, IL3, PIK3R2, IL2RA, IL5
REA C:R- HSA - 4427 42	CREB1 phosphorylati on through NMDA receptor- mediated activation of RAS signaling	7.0 0e- 03	2,2	26	491	8	30,77	MAPK3, MAPK1, HRAS, CREB1, RPS6KA3, RPS6KA1, RPS6KA2, PDPK1
REA C:R- HSA - 1867 63	Downstream signal transduction	7.0 0e- 03	2,2	26	491	8	30,77	STAT3, CRK, HRAS, SRC, STAT1, STAT6, PIK3R2, PTPN11

REA C:R- HSA - 4451 44	Signal transduction by L1	9.5 3e- 03	2	20	491	7	35	MAPK3, EGFR, MAPK1, MAP2K1, PAK1, NRP1, RAC1
REA C:R- HSA - 1146 04	GPVI- mediated activation cascade	1.0 2e- 02	2	35	491	9	25,71	FYN, RHOA, CDC42, PIK3R2, COL1A1, PTPN11, PDPK1, RAC1, RAC2
REA C:R- HSA - 7515 7	FasL/ CD95L signaling	1.0 8e- 02	2	5	491	4	80	CASP8, FASLG, FAS, FADD
REA C:R- HSA - 4519 27	Interleukin-2 family signaling	1.1 4e- 02	1,9	44	491	10	22,73	STAT3, STAT1, JAK1, IL2, JAK3, CSF2, IL3, PIK3R2, IL2RA, IL5
REA C:R- HSA - 1236 975	Antigen processing- Cross presentation	1.1 9e- 02	1,9	10 6	491	16	15,09	TLR4, HMGB1, PSMD9, TLR2, PSMD1, CYBB, MYD88, HLA-A, CD14, CALR, FCGR1A, IKBKB, MRC1, TAP1, TIRAP, IKBKG
REA C:R- HSA - 1867 97	Signaling by PDGF	1.3 4e- 02	1,9	54	491	11	20,37	STAT3, CRK, HRAS, SRC, SPP1, STAT1, STAT6, PIK3R2, COL2A1, PTPN11, PLG

REA C:R- HSA - 1606 322	ZBP1(DAI) mediated induction of type I IFNs	1.3 7e- 02	1,9	21	491	7	33,33	RELA, RIPK3, MYD88, NFKB1, RIPK1, IKBKB, IKBKG
REA C:R- HSA - 2454 202	Fc epsilon receptor (FCERI) signaling	1.4 3e- 02	1,8	18 2	491	22	12,09	MAPK3, JUN, MAPK1, GRAP2, FOS, HRAS, RELA, MAPK8, PSMD9, PSMD1, PAK1, MAP3K1, FYN, NFKB1, MAP2K4, TRAF6, PIK3R2, PDPK1, RAC1, MAP3K7, IKBKB, IKBKG
REA C:R- HSA - 2024 03	TCR signaling	1.5 5e- 02	1,8	12 0	491	17	14,17	GRAP2, PTEN, RELA, PSMD9, CD4, PSMD1, PAK1, NFKB1, PTPRC, TRAF6, PIK3R2, PDPK1, MAP3K7, PTPN22, IKBKB, VASP, IKBKG
REA C:R- HSA - 5669 034	TNFs bind their physiological receptors	1.7 0e- 02	1,8	29	491	8	27,59	FASLG, TNFSF13B, TNFRSF1A, TNFRSF25, LTA, TNFSF8, TNFSF9, CD70
REA C:R- HSA - 1227 986	Signaling by ERBB2	1.7 2e- 02	1,8	46	491	10	21,74	AKT1, EGFR, EGF, ERBB2, HRAS, SRC, HSP90AA1, FYN, RHOA, NRG1
REA C:R- HSA - 6806	Signaling by MET	1.8 1e- 02	1,7	76	491	13	17,11	STAT3, CRK, HRAS, SRC, FN1, MET, COL11A2, PTK2, PTPN1, COL1A1, COL2A1, PTPN11, RAC1

834								
REA C:R- HSA - 1474 244	Extracellular matrix organization	2.0 0e- 02	1,7	29 8	491	30	10,07	MMP9, MMP2, CASP3, FGF2, CDH1, CD44, ICAM1, APP, SPP1, SERPINE1, TIMP1, FN1, MMP13, COL11A2, VCAM1, TTR, KLK2, PECAM1, BGN, BSG, SDC1, ITGAM, P4HB, CTSB, COL1A1, COL2A1, PLG, VTN, ITGAX, ELANE
REA C:R- HSA - 4185 94	G alpha (i) signalling events	2.0 4e- 02	1,7	31 3	491	31	9,9	MAPK1, CXCL8, SRC, APP, CREB1, CXCR4, CXCL12, CCR7, CXCL10, CCR5, CXCL1, FPR2, CCL5, OPRM1, C5AR1, C3, RHO, GRK2, CXCR3, C5, CXCR2, NPY, CCL4, CXCR1, CXCL9, CCL4L2, GAL, PPBP, CCL20, ANXA1, CCR3
REA C:R- HSA - 8864 260	Transcription al regulation by the AP-2 (TFAP2) family of transcription factors	2.0 8e- 02	1,7	38	491	9	23,68	EGFR, CDKN1A, ESR1, ERBB2, APOE, NPM1, HSPD1, SUMO1, CREBBP
REA C:R- HSA - 7600 9	Platelet Aggregation (Plug Formation)	2.0 8e- 02	1,7	38	491	9	23,68	AKT1, CRK, SRC, FN1, PTK2, RAPGEF3, PTPN1, COL1A1, PDPK1

REA C:R- HSA - 9020 591	Interleukin- 12 signaling	2.1 0e- 02	1,7	47	491	10	21,28	IL10, SOD1, IFNG, JAK1, AIP, CDC42, P4HB, ANXA2, CFL1, MIF
REA C:R- HSA - 9701 898	STAT3 nuclear events downstream of ALK signaling	2.1 2e- 02	1,7	10	491	5	50	STAT3, HIF1A, CD274, HDAC1, HDAC2
REA C:R- HSA - 5668 541	TNFR2 non- canonical NF-kB pathway	2.3 0e- 02	1,6	10 0	491	15	15	TNF, CD40LG, PSMD9, FASLG, PSMD1, TNFSF13B, TNFRSF1A, TNFRSF25, TRAF3, BIRC3, TNFSF12, LTA, TNFSF8, TNFSF9, CD70
REA C:R- HSA - 5676 594	TNF receptor superfamily (TNFSF) members mediating non- canonical NF-kB pathway	2.4 8e- 02	1,6	16	491	6	37,5	CD40LG, TNFSF13B, TRAF3, BIRC3, TNFSF12, LTA
REA C:R- HSA - 3999 54	Sema3A PAK dependent Axon repulsion	2.4 8e- 02	1,6	16	491	6	37,5	HSP90AA1, PAK1, FYN, NRP1, RAC1, CFL1
REA C:R- HSA -	Signaling by SCF-KIT	2.5 9e- 02	1,6	39	491	9	23,08	MMP9, STAT3, GRAP2, HRAS, STAT1, FYN, PIK3R2, PTPN11, RAC1

1433 557								
REA C:R- HSA - 5689 896	Ovarian tumor domain proteases	2.5 9e- 02	1,6	39	491	9	23,08	TP53, ESR1, PTEN, CDK1, RHOA, TRAF3, RIPK1, TRAF6, IKBKG
REA C:R- HSA - 4503 02	activated TAK1 mediates p38 MAPK activation	2.6 7e- 02	1,6	23	491	7	30,43	MAPK14, IRAK1, TRAF6, MAP2K3, MAP3K7, MAP2K6, IKBKG
REA C:R- HSA - 9658 195	Leishmania infection	3.0 8e- 02	1,5	30 5	491	30	9,84	MAPK3, IL6, JUN, MAPK1, MAPK14, CRK, HMOX1, IL1B, RELA, APP, CREB1, IL10, MAPK8, ABL1, IL18, NLRP3, CASP1, IL1A, PTK2, FYN, CDC42, NFKB1, C3, FCGR2A, RAC1, FCGR1A, TXN, PYCARD, CD163, DPEP2
REA C:R- HSA - 5674 499	Negative feedback regulation of MAPK pathway	3.1 3e- 02	1,5	6	491	4	66,67	MAPK3, MAPK1, RAF1, MAP2K1
REA C:R- HSA - 1114 59	Activation of caspases through apoptosome- mediated cleavage	3.1 3e- 02	1,5	6	491	4	66,67	CASP3, CYCS, CASP9, APAF1

REA C:R- HSA - 9013 957	TLR3- mediated TICAM1- dependent programmed cell death	3.1 3e- 02	1,5	6	491	4	66,67	CASP8, RIPK3, RIPK1, FADD
REA C:R- HSA - 8986 944	Transcription al Regulation by MECP2	3.1 9e- 02	1,5	59	491	11	18,64	BDNF, PTEN, PPARG, CREB1, MET, HDAC1, IRAK1, OPRM1, PTPN1, HDAC2, FKBP5
REA C:R- HSA - 8943 724	Regulation of PTEN gene transcription	3.1 9e- 02	1,5	59	491	11	18,64	MAPK3, TP53, JUN, MAPK1, MTOR, PPARG, EZH2, HDAC1, KDM1A, RPTOR, HDAC2
REA C:R- HSA - 8875 878	MET promotes cell motility	3.2 1e- 02	1,5	40	491	9	22,5	CRK, SRC, FN1, MET, COL11A2, PTK2, COL1A1, COL2A1, RAC1
REA C:R- HSA - 4090 294	SUMOylation of intracellular receptors	3.6 3e- 02	1,4	24	491	7	29,17	ESR1, PPARG, PPARA, VDR, NR3C1, SUMO1, RARA
REA C:R- HSA - 5602 498	MyD88 deficiency (TLR2/4)	3.6 9e- 02	1,4	17	491	6	35,29	TLR4, HMGB1, TLR2, MYD88, CD14, TIRAP

REA C:R- HSA - 9627 069	Regulation of the apoptosome activity	3.7 3e- 02	1,4	11	491	5	45,45	MAPK3, MAPK1, CYCS, CASP9, APAF1
REA C:R- HSA - 1114 58	Formation of apoptosome	3.7 3e- 02	1,4	11	491	5	45,45	MAPK3, MAPK1, CYCS, CASP9, APAF1
REA C:R- HSA - 3832 80	Nuclear Receptor transcription pathway	3.9 5e- 02	1,4	41	491	9	21,95	ESR1, PPARG, PPARA, VDR, NR4A1, NR0B2, NR2C2, RARB, RARA
REA C:R- HSA - 8446 15	The AIM2 inflammasom e	4.9 6e- 02	1,3	3	491	3	100	CASP1, AIM2, PYCARD

TABLE S9: Transcription factors predicted to be regulated by P.veris metabolites and affected by influenza infection

Term_ID	Function	P-value	.-log10 Pvalue	Term Size	Query size	Intersection Size	Enrichment Score %	Positive Hits
TF:M03563_1	Factor: RelA-p65; motif: GGGANTTCCNN; match class: 1	1.07e-04	4	895	555	55	6,15	MMP9, EGF, SIRT1, ICAM1, TNFRSF10B, SYT1, CREB1, DPP4, CASP8, CD40, KCNH4, VCAM1, BECN1, FOXO1, FGFR2, CXCL10, CFLAR, EIF4G1, AIM2, CXCL1, IFNA1, EIF2AK2, IL17C, RAB5A, PTGS1, TRAF1, MYD88, MLKL, FKBP4, NFKB1, TRAF3, TLR7, KLK1, BIRC3, CXCR2, CSRP1, XCR1, CTSE, IL2RA, STAG1, MPRIP, CYLD, IKBKB, IL32, MIF, CD70, WNT3A, CADM1, TAP1, C1D, CD69, IGF2BP1, IFNB1, DPEP2

TF:M11665	Factor: IRF-2; motif: NGAAASYGAAAS	1.26e-03	2,9	2424	555	108	4,46	MMP9, MAPK1, HIF1A, CFTR, MAP2K1, TNFRSF10B, ABCB1, TLR4, CD40LG, IL4, HMGB1, FN1, ABCA1, ZNRD2, IFI27, CASP8, FASLG, TLR2, KCNH8, TNFSF10, FGF13, STAT1, SCGB2A2, FOXO1, PRNP, CASP1, CD274, MUC5AC, CXCL10, CFLAR, EIF4G1, AIM2, KLK3, MAP3K5, HDAC1, AIP, TNFSF13B, FPR2, OCLN, FAS, CYBB, NUP62, EIF2AK2, KHDRBS1, GLRX, KDM1A, RPS6KA5, F3, MYD88, APAF1, H3-2, EPCAM, IL6ST, ITGAM, IL7, C5AR1, NR3C1, RIPK1, IL3, IL17RA, MDK, MECP2, IL22, RPTOR, RBBP6, KIR3DL2, MAP2K3, CLDN7, FMR1, C1QBP, HLA-A, RNASE1, XPO1, WT1, FCGR1A, XCR1, AMPH, TXN, THBD, NLRC4, CYLD, IFNL3, HNRNPC, DUSP4, TNFSF9, PYCARD, PPBP, GRM5, PLG, CD28, TAP1, KLRG1, CCL20, CD163, XCL2, GBP1, CD69, IL5, ID2, PNO1, PSAT1, ANXA1, IL1RAPL1, RBMS3, MX1, OTUD4, IDO1, CCR3
TF:M08887	Factor: IRF; motif: NNGAAANTGAAANN	2.43e-02	1,6	1280	555	63	4,92	TNFRSF10B, ABCB1, TLR4, IL4, FN1, IFI27, FASLG, TLR2, KCNH8, TNFSF10, STAT1, SCGB2A2, PRNP, CASP1, CD274, CXCL10, CFLAR, JAK1, EIF4G1, AIM2, AIP, TNFSF13B, FPR2, FAS, CYBB, EIF2AK2, GLRX, KDM1A, F3, MYD88, IL6ST, ITGAM, MLKL, IL7, IL3, MDK, MECP2, RBBP6, C1QBP, HLA-A, RNASE1, WT1, FCGR1A, XCR1, TXN, CYLD, IFNL3, HNRNPC, DUSP4, PYCARD, PPBP, PLG, C1D, CCL20, XCL2,

								GBP1, CD69, IL5, IL1RAPL1, MX1, ERVW-1, IDO1, CCR3
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