

SUPPLEMENTARY INFORMATION

Detection of plant miRNAs abundance in human breast milk

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SUPPLEMENTARY FIGURES

Supplementary Figure S1. Results of the GO term annotation for plant miRNAs targets.

The GO terms (“Biological Process” category) annotation was performed by the Blast2GO software. The human targets predicted for 5 evaluated plant miRNAs were used. Figure represents the pie chart graph of certain GO terms distribution – numbers in brackets represent number of annotated human targets.

Supplementary Figure S2. Results of the GO term enrichment analysis for plant miRNA targets.

The GO terms annotation was performed by the Blast2GO software. The human targets predicted for 5 evaluated plant miRNAs were used. Figure represent hierarchical tree graph of enriched GO terms in the “Biological Process” and “Molecular Function” categories. The darker the colour, the higher GO term enrichment. The arrow colours indicate type of relationship between the GO terms, with black signifying “is a”, blue signifying “part of” and green signifying “regulates”.

Figure S1.

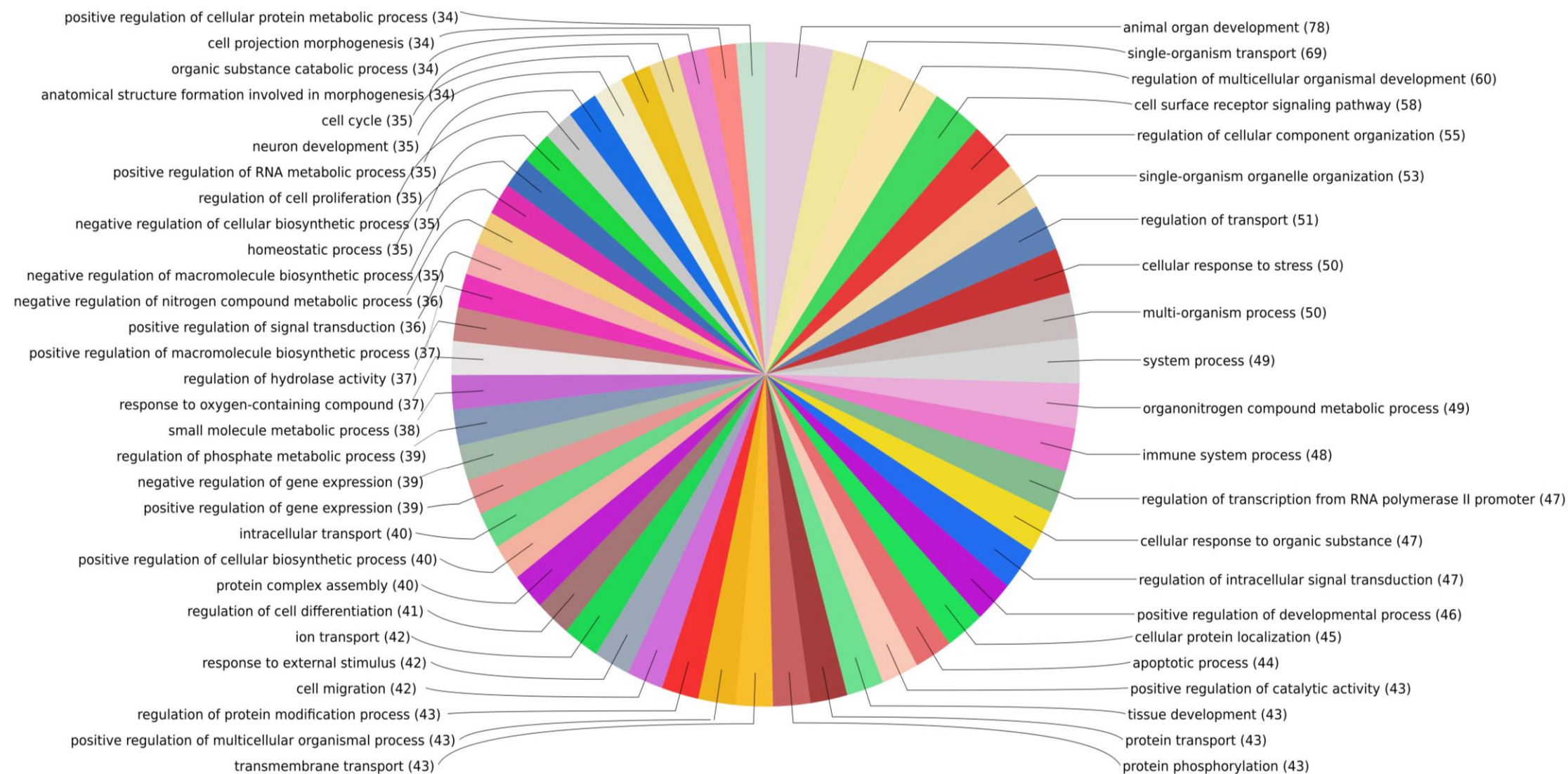
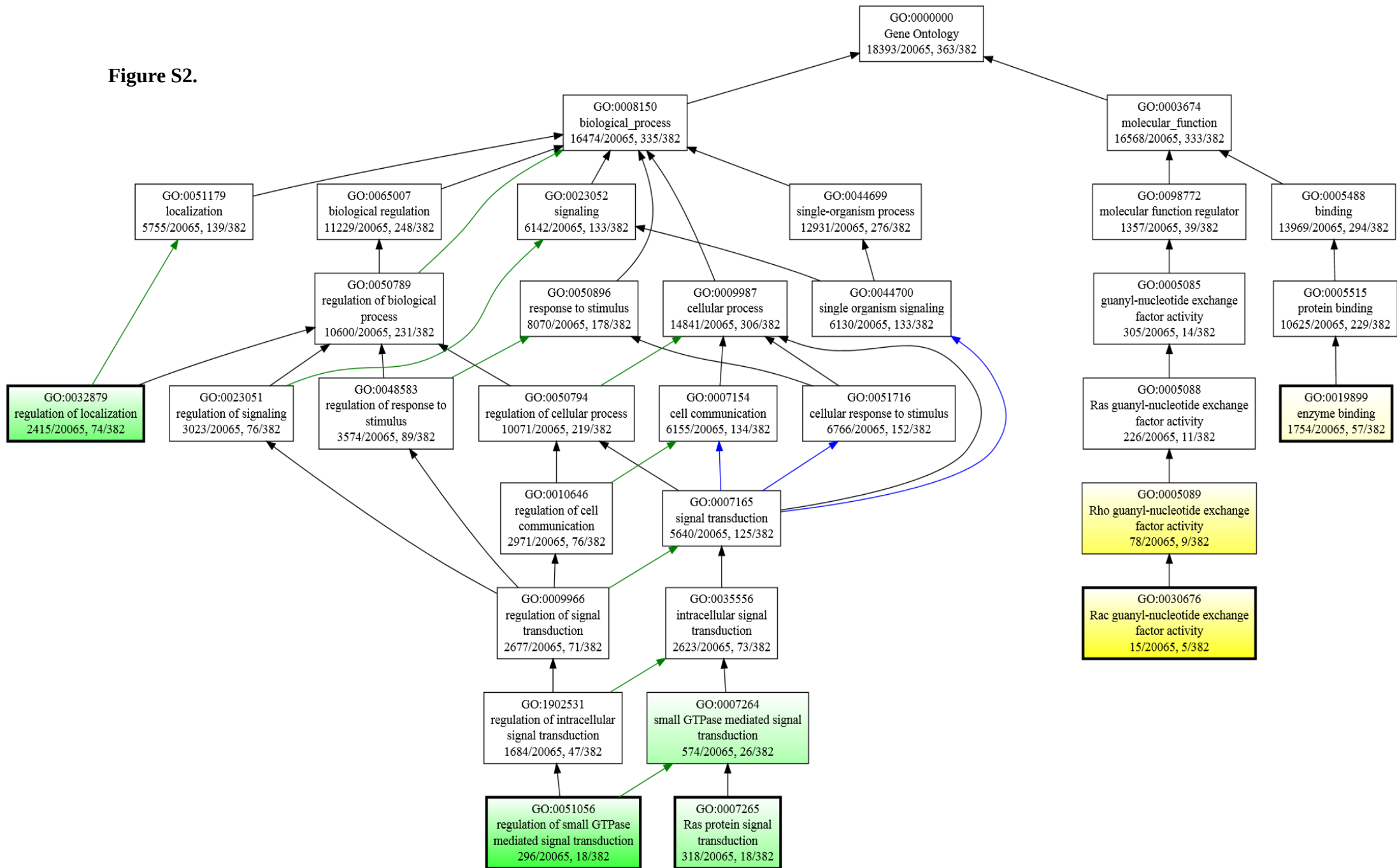


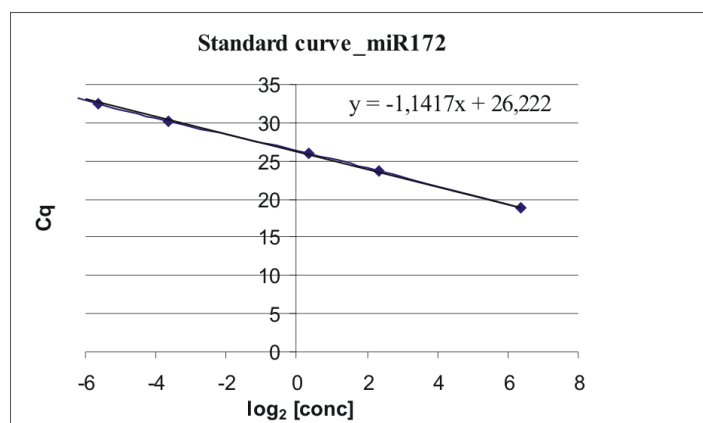
Figure S2.



a

Mic Bio Molecular Systems

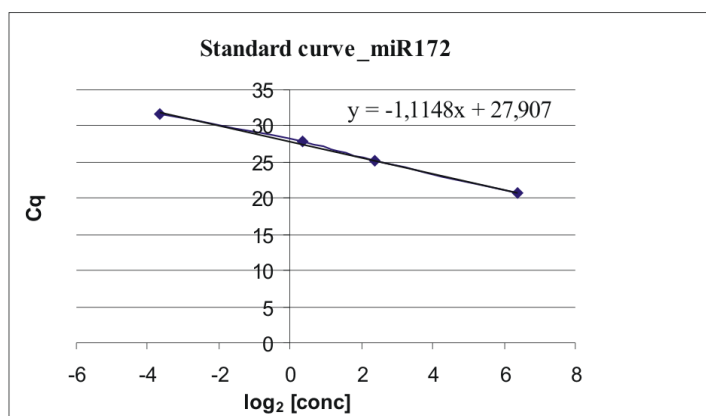
standard	conc [pM]	log ₂ [conc]	mean Cq
S1	82	6,358	18,90
S3	5,125	2,358	23,58
S4	1,28	0,356	26,04
S6	0,08	-3,644	30,15
S7	0,02	-5,644	32,43
S8	0,005	-7,644	35,21
S10	0,0003125	-11,644	37,42
S11	0,000078	-13,646	0,00



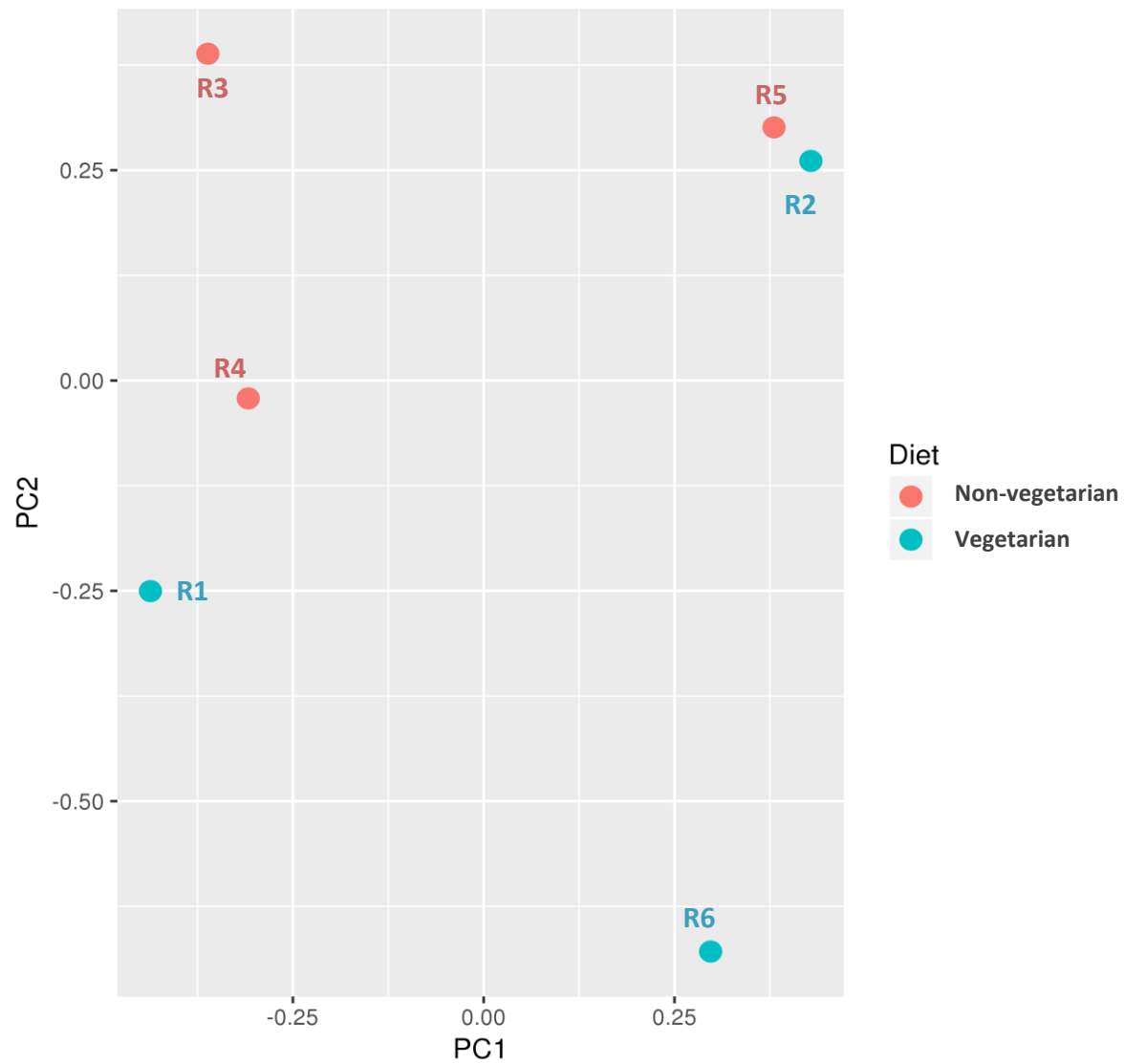
b

LightCycler 480 Roche

standard	conc [pM]	log ₂ [conc]	mean Cq
S1	82	6,358	20,69
S3	5,125	2,358	25,28
S4	1,28	0,356	27,85
S6	0,08	-3,644	31,77
S7	0,02	-5,644	34,78
S8	0,005	-5,644	35,00
S10	0,0003125	-5,644	35,00
S11	0,000078	-5,644	35,00



Supplementary Figure S3. Standard curves generated in qRT-PCR analysis for synthetic miR172a molecule using Mic instrument (a) and LightCycler480 (b). Values marked in red were excluded from the analysis.



Supplementary Figure S4. Clustering of the individual human breast milk samples. The Principal Component Analysis (PCA) was performed based on relative quantification data of 5 plant miRNAs, which levels were measured by qRT-PCR in the whole breast milk samples collected from healthy human volunteers.

SUPPLEMENTARY TABLES

Supplementary Table S1. Results of the target prediction for evaluated plant miRNAs. The targets prediction for 5 plant miRNAs was performed with the use of tools4miRs service which incorporated into analysis five different target prediction algorithms. As an initial target set all collected human 3'UTR, 5'UTR and coding sequences were used.

Target mRNA	miRNA	binding site	GUUGle (length of miRNA:mRNA match)	miRanda (binding free energy)	miRmap ($\Delta\Delta G$)	PITA (binding free energy)	RNA22 (binding free energy)	#tools
3utr ENST00000005995 PRSS21	ath-miR156a-5p	43:62	13	-23,65			-19,00	3
3utr ENST00000157600 LMCD1	ath-miR156a-5p	6430:6451	12	-25,52			-21,60	3
3utr ENST00000216133 CBX7	ath-miR167a-5p	2049:2070	12	-28,52		-28,60		3
3utr ENST00000216187 FOXRED2	ath-miR156a-5p	793:812		-20,20	-19,20	-22,16		3
3utr ENST00000219478 ZNF500	ath-miR166a-3p	69:81	12		-25,40	-25,10		3
3utr ENST00000220509 VPS18	ath-miR156a-5p	289:307		-21,82	-20,50	-21,20		3
3utr ENST00000220597 PAG1	ath-miR156a-5p	643:662		-20,29	-19,60	-19,20		3
3utr ENST00000223368 BCL7B	ath-miR167a-5p	310:329	13	-27,06		-26,70		3
3utr ENST00000231368 LNPEP	ath-miR156a-5p	5039:5059		-20,21	-18,60		-19,30	3
3utr ENST00000231656 CDX1	ath-miR166a-3p	72:86	14		-26,60	-29,70		3
3utr ENST00000233202 SLC11A1	ath-miR166a-3p	824:836	12		-21,00	-20,70		3
3utr ENST00000238477 ALG2	ath-miR156a-5p	1271:1291		-20,28	-19,00	-19,30		3
3utr ENST00000238789 ATAD2B	ath-miR156a-5p	928:941	13		-20,00	-20,40		3
3utr ENST00000242108 EEPD1	ath-miR167a-5p	634:657		-25,55	-24,60	-21,90		3
3utr ENST00000248633 PEX1	ath-miR167a-5p	374:395		-19,79	-21,50	-19,50		3
3utr ENST00000249786 SERF2	ath-miR156a-5p	682:695	13		-26,80	-27,20		3
3utr ENST00000251038 ZC3H14	ath-miR156a-5p	14282:14300		-22,09	-21,50	-21,60		3
3utr ENST00000252660 MAS1	ath-miR156a-5p	1274:1293		-21,02	-20,60	-21,70		3

3utr ENST00000254963 HSPA12B	ath-miR166a-3p	183:204		-29,04	-27,60	-27,60		3
3utr ENST00000255078 IGHMBP2	ath-miR156a-5p	488:507		-23,26	-22,50	-22,80		3
3utr ENST00000256031 ATP13A3	ath-miR156a-5p	2029:2049		-20,92	-20,90	-21,30		3
3utr ENST00000256186 MICALCL	ath-miR167a-5p	142:163		-21,77	-22,50	-19,40		3
3utr ENST00000259021 KAT7	ath-miR156a-5p	4931:4943	12		-18,30	-20,99		3
3utr ENST00000259050 MARCH7	ath-miR156a-5p	1043:1056	13		-17,70	-20,21		3
3utr ENST00000259392 SLC31A2	ath-miR156a-5p	436:454		-21,99	-21,00	-20,70		3
3utr ENST00000260276 C11orf1	ath-miR156a-5p	645:664		-19,35	-16,50	-20,00		3
3utr ENST00000260327 CTDSP12	ath-miR156a-5p	1954:1973		-21,31	-19,90	-20,60		3
3utr ENST00000260364 NOX5	ath-miR166a-3p	2606:2626		-26,97	-22,80	-23,30		3
3utr ENST00000260662 CENPO	ath-miR156a-5p	1076:1096		-19,75	-19,00	-22,40		3
3utr ENST00000261263 RAB21	ath-miR156a-5p	1009:1030		-20,47	-20,00	-20,30		3
3utr ENST00000261381 XYLT1	ath-miR156a-5p	6427:6442	15		-23,30	-23,40		3
3utr ENST00000262238 YY1	ath-miR156a-5p	2356:2374		-23,19	-23,30	-22,90		3
3utr ENST00000262502 SLC12A3	ath-miR156a-5p	598:620		-22,87	-16,40	-22,40		3
3utr ENST00000262710 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000263095 ZNF264	ath-miR156a-5p	6440:6458		-20,07	-20,40	-20,30		3
3utr ENST00000264344 FAM13A	ath-miR156a-5p	1581:1595	14		-26,20	-26,80		3
3utr ENST00000264607 ASB1	ath-miR156a-5p	793:812		-21,93	-21,30	-21,90		3
3utr ENST00000264658 FBXL20	ath-miR156a-5p	7032:7045	13		-20,00	-21,43		3
3utr ENST00000266544 NDUFA9	ath-miR156a-5p	2083:2101		-22,44	-20,50	-20,80		3
3utr ENST00000267890 TTBK2	ath-miR156a-5p	4139:4157		-21,87	-19,10	-19,10		3
3utr ENST00000271620 PRUNE	ath-miR156a-5p	624:642		-22,44	-22,40	-22,40		3
3utr ENST00000272647 AMMECR1L	ath-miR156a-5p	1562:1577	15		-21,40	-21,50		3
3utr ENST00000273853 CENPC	ath-miR156a-5p	2426:2445		-24,57	-22,70	-23,50		3
3utr ENST00000274773 TRIM7	ath-miR166a-3p	57:77		-25,25	-24,20	-29,97		3
3utr ENST00000279024 KIAA1755	ath-miR156a-5p	1401:1420		-20,79	-19,80	-19,50		3
3utr ENST00000280241 DLG2	ath-miR156a-5p	3285:3305		-22,94	-20,90	-20,90		3

3utr ENST00000281938 HSPB8	ath-miR156a-5p	657:669	12		-18,30	-19,30		3
3utr ENST00000283426 PLEKHG4B	ath-miR156a-5p	3910:3932		-21,05	-18,80	-19,10		3
3utr ENST00000283946 FBXO36	ath-miR156a-5p	54:73		-20,15	-21,10	-23,60		3
3utr ENST00000285397 AK9	ath-miR156a-5p	277:298		-24,68	-23,80	-23,80		3
3utr ENST00000285599 MAN2B2	ath-miR156a-5p	224:244		-24,07	-21,60	-22,30		3
3utr ENST00000287675 EXOG	ath-miR156a-5p	684:707		-25,77	-20,10	-24,30		3
3utr ENST00000288050 PDPR	ath-miR156a-5p	3022:3042		-19,28	-16,70	-20,93		3
3utr ENST00000297323 ADCY1	ath-miR166a-3p	3909:3922	13		-25,00	-24,80		3
3utr ENST00000300176 AGFG2	ath-miR156a-5p	2009:2030		-23,51	-21,70	-22,10		3
3utr ENST00000302475 MCC	ath-miR156a-5p	2214:2233		-20,55	-20,50	-19,60		3
3utr ENST00000302506 CDC25A	ath-miR156a-5p	178:197		-24,99	-24,30	-24,60		3
3utr ENST00000302824 STARD5	ath-miR156a-5p	3523:3541		-23,11	-20,50	-21,10		3
3utr ENST00000302851 ZNF561	ath-miR156a-5p	605:625		-23,20	-18,80	-20,00		3
3utr ENST00000303077 SIX2	ath-miR156a-5p	419:441		-24,27	-19,50	-23,70		3
3utr ENST00000303391 MECP2	ath-miR156a-5p	5657:5675		-22,75	-22,90	-22,40		3
3utr ENST00000304987 SIK2	ath-miR156a-5p	3026:3046		-23,00	-20,60	-21,00		3
3utr ENST00000308910 GCSAM	ath-miR156a-5p	305:323		-25,04	-22,80	-24,90		3
3utr ENST00000309859 GGA2	ath-miR156a-5p	1064:1083		-21,67	-19,80	-19,40		3
3utr ENST00000311565 PPARD	ath-miR156a-5p	469:487		-20,20	-19,70	-20,80		3
3utr ENST00000311601 SH3PXD2B	ath-miR156a-5p	4284:4303		-26,41	-25,50	-26,50		3
3utr ENST00000315599 CD209	ath-miR156a-5p	2211:2223	12		-18,70	-19,20		3
3utr ENST00000315792 C8orf4	ath-miR156a-5p	105:118	13		-21,40	-22,50		3
3utr ENST00000317802 TSPYL6	ath-miR156a-5p	941:960		-22,61	-22,40	-22,50		3
3utr ENST00000318282 MKL2	ath-miR156a-5p	1113:1126	13		-22,70	-23,30		3
3utr ENST00000319033 ALG2	ath-miR156a-5p	278:298		-20,28	-19,00	-19,30		3
3utr ENST00000324262 CNDP2	ath-miR156a-5p	807:826		-20,30	-21,40	-20,30		3
3utr ENST00000324301 CNDP2	ath-miR156a-5p	807:826		-20,30	-21,40	-20,30		3
3utr ENST00000324685 RNF40	ath-miR166a-3p	1329:1352		-29,60	-20,00	-25,80		3

3utr ENST00000324727 SCN4B	ath-miR156a-5p	1997:2014		-24,80	-24,10	-24,40		3
3utr ENST00000325134 ZNF550	ath-miR156a-5p	2596:2615		-22,13	-20,80	-21,00		3
3utr ENST00000328554 C22orf29	ath-miR156a-5p	469:490		-19,38	-19,40	-19,70		3
3utr ENST00000329203 FAM181B	ath-miR156a-5p	586:600	14		-19,30	-24,81		3
3utr ENST00000330276 SV2B	ath-miR156a-5p	1791:1811		-29,60	-26,60	-27,00		3
3utr ENST00000330634 INF2	ath-miR156a-5p	1427:1448		-19,88	-20,60	-21,20		3
3utr ENST00000331194 CCDC88C	ath-miR156a-5p	1019:1035	16		-27,60	-28,00		3
3utr ENST00000332129 KIF21B	ath-miR166a-3p	2268:2288	16	-30,73		-33,24		3
3utr ENST00000332411 KRT76	ath-miR156a-5p	461:480		-21,39	-20,80	-20,50		3
3utr ENST00000333209 GPRIN3	ath-miR156a-5p	2009:2029		-23,22	-19,20	-20,10		3
3utr ENST00000334218 CDC42BPA	ath-miR156a-5p	2167:2187		-22,09	-21,60	-22,50		3
3utr ENST00000334801 BCL9L	ath-miR156a-5p	458:478		-19,98	-20,50	-21,00		3
3utr ENST00000335185 CCDC73	ath-miR156a-5p	136:156		-22,90	-22,00	-22,60		3
3utr ENST00000335251 INTU	ath-miR156a-5p	5136:5154		-20,69	-20,10	-19,90		3
3utr ENST00000337990 ZC4H2	ath-miR156a-5p	576:596		-20,60	-21,10	-21,30		3
3utr ENST00000338631 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000339854 MEFV	ath-miR156a-5p	348:368		-24,83	-24,20	-24,60		3
3utr ENST00000342665 SOX12	ath-miR166a-3p	2268:2281	13		-22,40	-24,79		3
3utr ENST00000343003 SPATA13	ath-miR156a-5p	485:504	15	-26,45		-26,00		3
3utr ENST00000343110 PRELP	ath-miR156a-5p	2633:2652		-19,74	-19,10	-21,20		3
3utr ENST00000343218 DPYSL3	ath-miR156a-5p	909:928		-22,18	-20,20	-20,90		3
3utr ENST00000343968 MS4A4A	ath-miR166a-3p	320:333	13		-25,20	-25,82		3
3utr ENST00000345496 UBE2G2	ath-miR156a-5p	2476:2496		-20,83	-17,60	-20,67		3
3utr ENST00000348831 ADARB1	ath-miR156a-5p	2064:2082		-21,45	-19,30	-19,70		3
3utr ENST00000349139 WDR3	ath-miR156a-5p	5058:5077		-22,13	-17,90	-19,60		3
3utr ENST00000349384 RREB1	ath-miR156a-5p	1013:1026	13		-19,80	-22,35		3
3utr ENST00000351231 CDC25A	ath-miR156a-5p	178:197		-24,99	-24,30	-24,60		3
3utr ENST00000351989 DGCR8	ath-miR156a-5p	1394:1413		-19,82	-19,10	-20,50		3

3utr ENST00000354200 TBC1D20	ath-miR156a-5p	2300:2318		-25,38	-22,70	-23,30		3
3utr ENST00000355209 POLR3H	ath-miR156a-5p	3393:3405	12		-22,70	-22,50		3
3utr ENST00000355327 THSD4	ath-miR156a-5p	2789:2802	13		-22,60	-22,70		3
3utr ENST00000356003 WWP2	ath-miR156a-5p	1510:1529		-21,15	-22,40	-21,90		3
3utr ENST00000357260 FAM212B	ath-miR156a-5p	4169:4187		-21,01	-21,00	-23,06		3
3utr ENST00000357481 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000357947 TLL2	ath-miR156a-5p	193:212		-19,38	-18,80	-19,00		3
3utr ENST00000358246 MS4A7	ath-miR156a-5p	1064:1079	15		-19,30	-21,10		3
3utr ENST00000359062 PDE3A	ath-miR156a-5p	4012:4031		-22,43	-18,80	-21,30		3
3utr ENST00000359154 WWP2	ath-miR156a-5p	1510:1529		-21,15	-22,40	-21,90		3
3utr ENST00000360694 PPARD	ath-miR156a-5p	469:487		-20,20	-19,70	-20,80		3
3utr ENST00000360697 ADARB1	ath-miR156a-5p	2064:2082		-21,45	-19,30	-19,70		3
3utr ENST00000360835 SCUBE1	ath-miR166a-3p	21:39		-33,80	-31,00	-31,10		3
3utr ENST00000361642 ZEB1	ath-miR156a-5p	2227:2246		-22,90	-20,40	-21,40		3
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3utr ENST00000366766 CDC42BPA	ath-miR156a-5p	2167:2187		-22,09	-21,60	-22,50		3
3utr ENST00000366767 CDC42BPA	ath-miR156a-5p	2167:2187		-22,09	-21,60	-22,50		3
3utr ENST00000366769 CDC42BPA	ath-miR156a-5p	2167:2187		-22,09	-21,60	-22,50		3
3utr ENST00000366847 FGFR1OP	ath-miR156a-5p	6604:6622		-20,17	-20,10	-20,10		3
3utr ENST00000366898 PARK2	ath-miR156a-5p	1916:1935		-22,27	-22,00	-21,80		3
3utr ENST00000367080 PFKFB2	ath-miR156a-5p	1321:1341		-22,80	-18,50	-19,45		3
3utr ENST00000367467 SASH1	ath-miR156a-5p	363:382		-22,86	-22,60	-23,20		3
3utr ENST00000367615 NPHS2	ath-miR156a-5p	405:426		-22,22	-19,90	-19,90		3
3utr ENST00000367616 NPHS2	ath-miR156a-5p	405:426		-22,22	-19,90	-19,90		3
3utr ENST00000368614 LRRC27	ath-miR156a-5p	3319:3331	12		-22,60	-23,82		3
3utr ENST00000368614 LRRC27	ath-miR156a-5p	1020:1039		-20,64	-20,00	-20,50		3
3utr ENST00000368934 PRUNE	ath-miR156a-5p	624:642		-22,44	-22,40	-22,40		3
3utr ENST00000368935 PRUNE	ath-miR156a-5p	624:642		-22,44	-22,40	-22,40		3

3utr ENST00000368936 PRUNE	ath-miR156a-5p	624:642		-22,44	-22,40	-22,40		3
3utr ENST00000368937 PRUNE	ath-miR156a-5p	624:642		-22,44	-22,40	-22,40		3
3utr ENST00000369183 FAM204A	ath-miR156a-5p	1351:1369		-29,46	-26,90	-27,50		3
3utr ENST00000369423 IL9R	ath-miR156a-5p	509:528		-20,29	-20,10	-20,40		3
3utr ENST00000370328 GABRE	ath-miR156a-5p	1291:1305	14		-21,60	-25,50		3
3utr ENST00000370958 LRRC7	ath-miR156a-5p	1433:1452		-21,32	-18,90	-21,20		3
3utr ENST00000371873 CMPK1	ath-miR156a-5p	1201:1214	13		-18,10	-20,80		3
3utr ENST00000373471 FNDC5	ath-miR156a-5p	426:448		-21,93	-16,80	-22,10		3
3utr ENST00000373504 CHIC1	ath-miR156a-5p	6005:6026		-23,86	-20,60	-20,70		3
3utr ENST00000373652 FBXO36	ath-miR156a-5p	54:73		-20,15	-21,10	-23,60		3
3utr ENST00000373789 RTKN2	ath-miR156a-5p	2403:2423		-20,24	-19,70	-19,60		3
3utr ENST00000374220 SLC31A2	ath-miR156a-5p	699:717		-21,99	-21,00	-20,70		3
3utr ENST00000374839 ZC4H2	ath-miR156a-5p	576:596		-20,60	-21,10	-21,30		3
3utr ENST00000375604 MCF2L	ath-miR156a-5p	1846:1863	17		-24,80	-25,80		3
3utr ENST00000376230 ZNF550	ath-miR156a-5p	2010:2029		-22,13	-20,80	-21,00		3
3utr ENST00000376451 KIAA1217	ath-miR156a-5p	928:946		-19,16	-18,30	-26,61		3
3utr ENST00000376550 XYLT2	ath-miR166a-3p	324:349		-29,22	-18,10	-26,00		3
3utr ENST00000376572 KIAA2013	ath-miR156a-5p	286:298	12		-18,30	-21,52		3
3utr ENST00000377275 ARL5B	ath-miR156a-5p	2022:2036	14		-25,60	-26,00		3
3utr ENST00000379416 XDH	ath-miR156a-5p	1157:1176		-26,16	-26,90	-26,50		3
3utr ENST00000379441 BAZ2A	ath-miR156a-5p	681:700		-20,19	-20,80	-20,71		3
3utr ENST00000379472 KCNC1	ath-miR166a-3p	1054:1075		-28,86	-25,90	-25,00		3
3utr ENST00000379731 B4GALT1	ath-miR166a-3p	2335:2356		-29,39	-25,90	-27,81		3
3utr ENST00000379938 RREB1	ath-miR156a-5p	1013:1026	13		-19,80	-22,35		3
3utr ENST00000380455 NQO2	ath-miR156a-5p	3936:3955		-20,21	-17,30	-19,10		3
3utr ENST00000380620 B3GALT5	ath-miR156a-5p	8409:8428		-21,90	-19,60	-20,53		3
3utr ENST00000380672 BNC2	ath-miR156a-5p	7778:7798		-22,28	-19,90	-20,80		3
3utr ENST00000380769 WRNIP1	ath-miR156a-5p	1125:1143		-21,12	-20,20	-20,60		3

3utr ENST00000380834 CENPO	ath-miR156a-5p	1076:1096		-19,75	-19,00	-22,40		3
3utr ENST00000381024 ATAD2B	ath-miR156a-5p	928:941	13		-20,00	-20,40		3
3utr ENST00000381151 SLC5A3	ath-miR156a-5p	4747:4760	13		-18,20	-19,90		3
3utr ENST00000381359 SERF2	ath-miR156a-5p	682:695	13		-26,80	-27,20		3
3utr ENST00000382095 SPATA13	ath-miR156a-5p	485:504	15	-26,45		-26,00		3
3utr ENST00000382108 SPATA13	ath-miR156a-5p	485:504	15	-26,45		-26,00		3
3utr ENST00000382545 KCNA1	ath-miR156a-5p	5309:5328		-21,21	-19,40	-20,40		3
3utr ENST00000382850 NEDD4L	ath-miR156a-5p	3798:3817		-21,75	-20,20	-22,80		3
3utr ENST00000383024 DGCR8	ath-miR156a-5p	1394:1413		-19,82	-19,10	-20,50		3
3utr ENST00000389857 CCDC88C	ath-miR156a-5p	1019:1035	16		-27,60	-28,00		3
3utr ENST00000391741 LAIR1	ath-miR156a-5p	36:55		-22,65	-22,50	-22,40		3
3utr ENST00000393001 AMMECR1L	ath-miR156a-5p	1562:1577	15		-21,40	-21,50		3
3utr ENST00000393315 TRIM7	ath-miR166a-3p	57:77		-25,25	-24,20	-29,97		3
3utr ENST00000393319 TRIM7	ath-miR166a-3p	57:77		-25,25	-24,20	-29,97		3
3utr ENST00000394232 SV2B	ath-miR156a-5p	1791:1811		-29,60	-26,60	-27,00		3
3utr ENST00000394287 MED1	ath-miR156a-5p	278:298		-21,15	-19,90	-19,60		3
3utr ENST00000394409 PPP2R2B	ath-miR156a-5p	3054:3073		-24,02	-18,30	-20,30		3
3utr ENST00000395002 FAM13A	ath-miR156a-5p	1581:1595	14		-26,20	-26,80		3
3utr ENST00000395751 SREBF1	ath-miR166a-3p	947:967		-28,21	-24,80	-25,36		3
3utr ENST00000395756 SREBF1	ath-miR166a-3p	1009:1029		-28,21	-24,80	-25,36		3
3utr ENST00000396184 PDE1C	ath-miR156a-5p	1450:1462	12		-17,50	-19,80		3
3utr ENST00000396445 KIAA1217	ath-miR156a-5p	928:946		-19,16	-18,30	-26,61		3
3utr ENST00000396502 CLEC12B	ath-miR156a-5p	1260:1280		-26,76	-23,90	-24,30		3
3utr ENST00000396504 POLR3H	ath-miR156a-5p	3393:3405	12		-22,70	-22,50		3
3utr ENST00000397030 MCF2L	ath-miR156a-5p	2218:2235	17		-24,80	-25,80		3
3utr ENST00000397224 FOXRED2	ath-miR156a-5p	793:812		-20,20	-19,20	-22,16		3
3utr ENST00000397341 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000397554 UQCC1	ath-miR156a-5p	1520:1540	12	-19,05	-18,50			3

3utr ENST00000397980 PHACTR2	ath-miR166a-3p	78:98		-25,67	-23,90	-23,80		3
3utr ENST00000398004 SLC35E3	ath-miR156a-5p	12568:12588		-22,44	-21,20	-21,50		3
3utr ENST00000398261 WHSC1	ath-miR166a-3p	4616:4638		-36,15	-30,30	-31,70		3
3utr ENST00000398309 DLG2	ath-miR156a-5p	3285:3305		-22,94	-20,90	-20,90		3
3utr ENST00000398514 DPYSL3	ath-miR156a-5p	909:928		-22,18	-20,20	-20,90		3
3utr ENST00000398653 THADA	ath-miR156a-5p	4459:4477		-22,32	-22,80	-23,60		3
3utr ENST00000398835 XPO5	ath-miR156a-5p	664:683		-20,18	-18,50	-19,90		3
3utr ENST00000399701 HSPA12B	ath-miR166a-3p	183:204		-29,04	-27,60	-27,60		3
3utr ENST00000399949 SPATA13	ath-miR156a-5p	485:504	15	-26,45		-26,00		3
3utr ENST00000404127 ARHGAP4	ath-miR156a-5p	348:366		-19,86	-20,50	-20,60		3
3utr ENST00000405640 C22orf29	ath-miR156a-5p	469:490		-19,38	-19,40	-19,70		3
3utr ENST00000406785 SLC8A1	ath-miR156a-5p	2022:2035	13		-19,10	-19,60		3
3utr ENST00000407472 C22orf29	ath-miR156a-5p	469:490		-19,38	-19,40	-19,70		3
3utr ENST00000407755 DGCR8	ath-miR156a-5p	1394:1413		-19,82	-19,10	-20,50		3
3utr ENST00000408936 DAB2IP	ath-miR156a-5p	1739:1758		-22,18	-21,10	-21,00		3
3utr ENST00000409939 TBC1D10B	ath-miR156a-5p	490:511		-28,54	-26,40	-29,00		3
3utr ENST00000409992 FBXO36	ath-miR156a-5p	54:73		-20,15	-21,10	-23,60		3
3utr ENST00000416284 FAM19A2	ath-miR156a-5p	372:392		-19,80	-19,60	-19,60		3
3utr ENST00000416671 CHEK2	ath-miR172a	336:356	14	-21,10	-21,80			3
3utr ENST00000417588 CHEK2	ath-miR172a	143:163	14	-21,10	-21,80			3
3utr ENST00000417826 CCDC103	ath-miR156a-5p	2189:2208		-21,88	-18,70	-20,69		3
3utr ENST00000418556 LAIR1	ath-miR156a-5p	268:287		-22,65	-22,50	-22,40		3
3utr ENST00000418635 PPARD	ath-miR156a-5p	469:487		-20,20	-19,70	-20,80		3
3utr ENST00000420619 LDLRAD1	ath-miR156a-5p	850:870		-21,33	-20,60	-22,80		3
3utr ENST00000420808 NISCH	ath-miR156a-5p	514:534		-23,45	-21,50	-21,80		3
3utr ENST00000422067 TRIM7	ath-miR166a-3p	57:77		-25,25	-24,20	-29,97		3
3utr ENST00000424629 ZNF561	ath-miR156a-5p	605:625		-23,20	-18,80	-20,00		3
3utr ENST00000424834 SPATA13	ath-miR156a-5p	485:504	15	-26,45		-26,00		3

3utr ENST00000426717 DLG2	ath-miR156a-5p	3285:3305		-22,94	-20,90	-20,90		3
3utr ENST00000429136 ATP13A3	ath-miR156a-5p	2029:2049		-20,92	-20,90	-21,30		3
3utr ENST00000433028 CHEK2	ath-miR172a	571:591	14	-21,10	-21,80			3
3utr ENST00000433197 ERN1	ath-miR156a-5p	2317:2337		-25,92	-25,10	-25,40		3
3utr ENST00000435753 DDX11	ath-miR156a-5p	2085:2104		-23,76	-22,40	-21,50		3
3utr ENST00000435817 FCHSD1	ath-miR156a-5p	218:231	13		-19,80	-20,57		3
3utr ENST00000436881 C9orf172	ath-miR166a-3p	1084:1104		-22,85	-19,80	-19,74		3
3utr ENST00000437205 ABCC5	ath-miR156a-5p	3656:3674		-21,31	-21,50	-20,90		3
3utr ENST00000437844 ZEB1	ath-miR156a-5p	5742:5761		-22,90	-20,40	-21,40		3
3utr ENST00000438926 SLC12A3	ath-miR156a-5p	598:620		-22,87	-16,40	-22,40		3
3utr ENST00000439040 ATP13A3	ath-miR156a-5p	2029:2049		-20,92	-20,90	-21,30		3
3utr ENST00000439346 CHEK2	ath-miR172a	143:163	14	-21,10	-21,80			3
3utr ENST00000441020 LANCL1	ath-miR156a-5p	1598:1616		-24,30	-22,80	-24,10		3
3utr ENST00000441787 PRDM15	ath-miR166a-3p	22:41		-31,83	-28,40	-28,40		3
3utr ENST00000443276 GDPD5	ath-miR156a-5p	131:152		-24,44	-22,20	-22,10		3
3utr ENST00000443314 LANCL1	ath-miR156a-5p	1598:1616		-24,30	-22,80	-24,10		3
3utr ENST00000445816 SERF2	ath-miR156a-5p	245:258	13		-26,80	-27,20		3
3utr ENST00000446923 ZEB1	ath-miR156a-5p	2227:2246		-22,90	-20,40	-21,40		3
3utr ENST00000447096 DNAJC25	ath-miR156a-5p	1844:1864		-23,02	-21,20	-21,00		3
3utr ENST00000447310 ZNF550	ath-miR156a-5p	2596:2615		-22,13	-20,80	-21,00		3
3utr ENST00000447788 ZC4H2	ath-miR156a-5p	557:577		-20,60	-21,10	-21,30		3
3utr ENST00000448077 PPARD	ath-miR156a-5p	469:487		-20,20	-19,70	-20,80		3
3utr ENST00000448511 CHEK2	ath-miR172a	238:258	14	-21,10	-21,80			3
3utr ENST00000448940 CDC42BPA	ath-miR156a-5p	2167:2187		-22,09	-21,60	-22,50		3
3utr ENST00000449395 PRDM15	ath-miR166a-3p	22:41		-31,83	-28,40	-28,40		3
3utr ENST00000450366 LANCL1	ath-miR156a-5p	1598:1616		-24,30	-22,80	-24,10		3
3utr ENST00000452281 STAT1	ath-miR156a-5p	841:855	14		-18,20	-21,51		3
3utr ENST00000452398 KCNH8	ath-miR156a-5p	3427:3447		-24,26	-22,20	-22,20		3

3utr ENST00000456986 NEDD4L	ath-miR156a-5p	3798:3817		-21,75	-20,20	-22,80		3
3utr ENST00000457177 ZNF550	ath-miR156a-5p	1663:1682		-22,13	-20,80	-21,00		3
3utr ENST00000457367 EXOG	ath-miR156a-5p	1565:1588		-25,77	-20,10	-24,30		3
3utr ENST00000457657 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000463589 DNAJC25	ath-miR156a-5p	1906:1926		-23,02	-21,20	-21,00		3
3utr ENST00000472232 BAG1	ath-miR156a-5p	185:203		-20,43	-21,30	-20,80		3
3utr ENST00000472487 MYSM1	ath-miR156a-5p	3717:3736		-20,74	-22,70	-21,60		3
3utr ENST00000473706 CENPO	ath-miR156a-5p	1076:1096		-19,75	-19,00	-22,40		3
3utr ENST00000473758 ACIN1	ath-miR156a-5p	3278:3297		-21,64	-22,40	-22,30		3
3utr ENST00000476832 ALG2	ath-miR156a-5p	278:298		-20,28	-19,00	-19,30		3
3utr ENST00000488380 NISCH	ath-miR156a-5p	893:913		-23,45	-21,50	-21,80		3
3utr ENST00000488690 AHI1	ath-miR156a-5p	223:241		-19,31	-19,40	-20,00		3
3utr ENST00000493950 ADGB	ath-miR166a-3p	2300:2319		-28,73	-24,90	-19,95		3
3utr ENST00000495632 BTN2A2	ath-miR156a-5p	134:155		-27,36	-23,60	-25,10		3
3utr ENST00000497979 RINT1	ath-miR156a-5p	793:805	12		-19,90	-21,50		3
3utr ENST00000503128 WHSC1	ath-miR166a-3p	4616:4638		-36,15	-30,30	-31,70		3
3utr ENST00000505907 MAN2B2	ath-miR156a-5p	3966:3986		-24,07	-21,60	-22,30		3
3utr ENST00000507978 ASTE1	ath-miR156a-5p	110:128		-27,23	-25,90	-26,50		3
3utr ENST00000509756 GNPDA2	ath-miR156a-5p	2588:2601	13		-19,30	-19,30		3
3utr ENST00000517878 SLC45A4	ath-miR166a-3p	88:107		-31,36	-28,90	-28,60		3
3utr ENST00000519067 SLC45A4	ath-miR166a-3p	707:726		-31,36	-28,90	-28,60		3
3utr ENST00000521861 EIF3H	ath-miR156a-5p	836:855		-20,95	-19,60	-22,00		3
3utr ENST00000522126 FCHSD1	ath-miR156a-5p	848:861	13		-19,80	-20,57		3
3utr ENST00000522783 FCHSD1	ath-miR156a-5p	379:392	13		-19,80	-20,57		3
3utr ENST00000523756 TG	ath-miR156a-5p	1369:1387		-30,67	-29,70	-29,90		3
3utr ENST00000526143 BCL9L	ath-miR156a-5p	458:478		-19,98	-20,50	-21,00		3
3utr ENST00000527056 MS4A4A	ath-miR166a-3p	472:485	13		-25,20	-25,82		3
3utr ENST00000527820 GDPD5	ath-miR156a-5p	131:152		-24,44	-22,20	-22,10		3

3utr ENST00000529945 PDE4DIP	ath-miR156a-5p	1927:1948		-23,37	-20,90	-20,90		3
3utr ENST00000529950 MS4A4A	ath-miR166a-3p	458:471	13		-25,20	-25,82		3
3utr ENST00000530254 MYO18A	ath-miR156a-5p	5266:5285		-22,97	-19,20	-19,10		3
3utr ENST00000531709 NXF1	ath-miR156a-5p	1714:1734		-25,09	-24,40	-25,30		3
3utr ENST00000536440 ACACB	ath-miR156a-5p	519:541		-22,40	-18,10	-21,90		3
3utr ENST00000536980 MEFV	ath-miR156a-5p	970:990		-24,83	-24,20	-24,60		3
3utr ENST00000537098 CMIP	ath-miR156a-5p	1256:1274		-21,83	-20,30	-20,80		3
3utr ENST00000537682 MEFV	ath-miR156a-5p	970:990		-24,83	-24,20	-24,60		3
3utr ENST00000538326 MEFV	ath-miR156a-5p	1319:1339		-24,83	-24,20	-24,60		3
3utr ENST00000538404 LAMTOR1	ath-miR156a-5p	120:139		-20,35	-19,40	-19,60		3
3utr ENST00000539155 CLEC12B	ath-miR156a-5p	1753:1773		-26,76	-23,90	-24,30		3
3utr ENST00000539778 CMIP	ath-miR156a-5p	1256:1274		-21,83	-20,30	-20,80		3
3utr ENST00000540176 STAT1	ath-miR156a-5p	841:855	14		-18,20	-21,51		3
3utr ENST00000541543 CEP41	ath-miR156a-5p	4222:4241		-24,42	-21,70	-22,20		3
3utr ENST00000542898 MEFV	ath-miR156a-5p	970:990		-24,83	-24,20	-24,60		3
3utr ENST00000543251 UTP15	ath-miR156a-5p	2359:2380		-25,26	-25,20	-24,90		3
3utr ENST00000543415 GTF2H3	ath-miR156a-5p	6:24		-21,72	-20,70	-21,10		3
3utr ENST00000545928 LDLRAD1	ath-miR156a-5p	850:870		-21,33	-20,60	-22,80		3
3utr ENST00000549379 FAM19A2	ath-miR156a-5p	610:630		-19,80	-19,60	-19,60		3
3utr ENST00000550003 FAM19A2	ath-miR156a-5p	372:392		-19,80	-19,60	-19,60		3
3utr ENST00000551590 TCTN1	ath-miR166a-3p	347:366		-28,16	-23,40	-23,30		3
3utr ENST00000551619 FAM19A2	ath-miR156a-5p	372:392		-19,80	-19,60	-19,60		3
3utr ENST00000551812 BAZ2A	ath-miR156a-5p	681:700		-20,19	-20,80	-20,71		3
3utr ENST00000554752 MAP3K9	ath-miR156a-5p	4703:4715	12		-19,60	-21,70		3
3utr ENST00000556726 CCDC88C	ath-miR156a-5p	2940:2956	16		-27,60	-28,00		3
3utr ENST00000557515 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000558373 CTDSPL2	ath-miR156a-5p	1954:1973		-21,31	-19,90	-20,60		3
3utr ENST00000563236 SLC12A3	ath-miR156a-5p	598:620		-22,87	-16,40	-22,40		3

3utr ENST00000566454 SLC7A6	ath-miR156a-5p	1132:1152		-23,43	-23,20	-23,90		3
3utr ENST00000568530 PDPR	ath-miR156a-5p	3022:3042		-19,28	-16,70	-20,93		3
3utr ENST00000568684 WWP2	ath-miR156a-5p	1510:1529		-21,15	-22,40	-21,90		3
3utr ENST00000571589 MKL2	ath-miR156a-5p	1113:1126	13		-22,70	-23,30		3
3utr ENST00000573331 TMEM256-PLSCR3	ath-miR166a-3p	1520:1534	14		-31,20	-30,50		3
3utr ENST00000575112 RPAIN	ath-miR156a-5p	2763:2784		-21,30	-22,40	-22,70		3
3utr ENST00000579624 CNDP2	ath-miR156a-5p	617:636		-20,30	-21,40	-20,30		3
3utr ENST00000579847 CNDP2	ath-miR156a-5p	807:826		-20,30	-21,40	-20,30		3
3utr ENST00000581104 NUP85	ath-miR156a-5p	1035:1054		-22,68	-22,10	-22,50		3
3utr ENST00000586870 FAM134C	ath-miR156a-5p	354:373		-20,25	-23,20	-23,10		3
3utr ENST00000589422 ZNF500	ath-miR166a-3p	1040:1052	12		-25,40	-25,10		3
3utr ENST00000589522 ZNF233	ath-miR156a-5p	312:331		-19,56	-19,00	-19,80		3
3utr ENST00000589797 FAM134C	ath-miR156a-5p	939:958		-20,25	-23,20	-23,10		3
3utr ENST00000591662 CNTNAP1	ath-miR166a-3p	378:398		-29,16	-25,40	-25,90		3
3utr ENST00000594030 ZNF765	ath-miR156a-5p	3891:3911		-23,26	-23,30	-24,10		3
3utr ENST00000596814 VRK3	ath-miR156a-5p	853:872		-22,97	-21,50	-21,50		3
3utr ENST00000599598 FBXO17	ath-miR156a-5p	50:71		-25,29	-22,30	-22,30		3
3utr ENST00000601341 VRK3	ath-miR156a-5p	324:343		-22,97	-21,50	-21,50		3
3utr ENST00000602307 PTPN23	ath-miR166a-3p	2954:2967	13		-24,70	-24,30		3
3utr ENST00000605057 ACIN1	ath-miR156a-5p	429:448		-21,64	-22,40	-22,30		3
3utr ENST00000606888 ANKRD34A	ath-miR156a-5p	708:731		-24,24	-19,00	-24,90		3
3utr ENST00000608192 DZANK1	ath-miR156a-5p	203:222		-21,50	-20,60	-21,00		3
3utr ENST00000609438 GPRIN3	ath-miR156a-5p	2009:2029		-23,22	-19,20	-20,10		3
3utr ENST00000610888 MED22	ath-miR156a-5p	2329:2349		-21,95	-19,80	-22,70		3
3utr ENST00000611109 RREB1	ath-miR156a-5p	1013:1026	13		-19,80	-22,35		3
3utr ENST00000611463 ZNF2	ath-miR156a-5p	1198:1218		-22,79	-22,10	-22,90		3
3utr ENST00000611725 SNX13	ath-miR156a-5p	880:893	13		-21,90	-22,40		3

3utr ENST00000611745 SRRM3	ath-miR166a-3p	1344:1359	15		-34,40	-34,60		3
3utr ENST00000611979 MAP3K9	ath-miR156a-5p	4703:4715	12		-19,60	-21,70		3
3utr ENST00000612909 LAIR1	ath-miR156a-5p	36:55		-22,65	-22,50	-22,40		3
3utr ENST00000614493 MED22	ath-miR156a-5p	2329:2349		-21,95	-19,80	-22,70		3
3utr ENST00000614977 CPEB1	ath-miR156a-5p	687:700	13		-23,60	-23,30		3
3utr ENST00000616154 CDX1	ath-miR166a-3p	72:86	14		-26,60	-29,70		3
3utr ENST00000616933 SLC12A5	ath-miR166a-3p	2614:2633		-23,14	-22,00	-21,70		3
3utr ENST00000617923 ZNF2	ath-miR156a-5p	1198:1218		-22,79	-22,10	-22,90		3
3utr ENST00000618043 SLC7A6	ath-miR156a-5p	1845:1865		-23,43	-23,20	-23,90		3
3utr ENST00000618156 PPP1R2	ath-miR156a-5p	897:916		-24,36	-20,40	-23,10		3
3utr ENST00000618524 LAIR1	ath-miR156a-5p	268:287		-22,65	-22,50	-22,40		3
3utr ENST00000619199 ATP13A3	ath-miR156a-5p	147:167		-20,92	-20,90	-21,30		3
3utr ENST00000619701 ABCG4	ath-miR156a-5p	1241:1262		-25,16	-24,70	-24,80		3
3utr ENST00000619732 MECP2	ath-miR156a-5p	5584:5602		-22,75	-22,90	-22,40		3
3utr ENST00000620340 RPS6KA6	ath-miR156a-5p	1835:1855		-23,44	-19,90	-20,50		3
3utr ENST00000621537 CMIP	ath-miR156a-5p	1256:1274		-21,83	-20,30	-20,80		3
3utr ENST00000622663 SASH1	ath-miR156a-5p	363:382		-22,86	-22,60	-23,20		3
3utr ENST00000622766 MYSM1	ath-miR156a-5p	3717:3736		-20,74	-22,70	-21,60		3
3utr ENST00000626118 MED22	ath-miR156a-5p	2329:2349		-21,95	-19,80	-22,70		3
3utr ENST00000629975 MED22	ath-miR156a-5p	2329:2349		-21,95	-19,80	-22,70		3
3utr ENST00000632883 CPEB1	ath-miR156a-5p	687:700	13		-23,60	-23,30		3
5utr ENST00000007516 NDUFAB1	ath-miR166a-3p	10:30		-29,08	-26,40	-25,90		3
5utr ENST00000083182 APPBP2	ath-miR156a-5p	66:84		-21,49	-21,70		-19,20	3
5utr ENST00000174653 AP3M2	ath-miR156a-5p	254:268	14		-20,90	-22,93		3
5utr ENST00000246949 DNASE1	ath-miR172a	1946:1965		-22,26	-22,40	-19,70		3
5utr ENST00000253109 ANGPTL6	ath-miR156a-5p	99:117		-21,39	-20,20	-20,90		3
5utr ENST00000254301 LGALS3	ath-miR166a-3p	99:111	12		-24,10	-29,70		3
5utr ENST00000262096 ZDHHC2	osa-miR168a-5p	137:157	12	-33,80			-29,60	3

5utr ENST00000262370 MGRN1	ath-miR166a-3p	80:92	12		-26,40	-27,00		3
5utr ENST00000263552 TBXAS1	ath-miR156a-5p	289:311		-24,57	-19,90	-24,30		3
5utr ENST00000276198 HTR2C	ath-miR156a-5p	146:166		-21,35	-19,30	-20,50		3
5utr ENST00000289373 TMSB15A	ath-miR166a-3p	42:63		-28,53	-25,30	-25,60		3
5utr ENST00000309784 TRIM59	ath-miR166a-3p	83:101		-28,56	-26,40	-26,70		3
5utr ENST00000312423 SWSAP1	ath-miR166a-3p	38:50	12		-32,20	-34,60		3
5utr ENST00000323289 ADGRB1	ath-miR166a-3p	114:137		-25,52	-20,20	-23,00		3
5utr ENST00000326925 NDUFAF3	ath-miR166a-3p	415:428	13		-22,30	-24,40		3
5utr ENST00000336425 TBXAS1	ath-miR156a-5p	137:159		-24,57	-19,90	-24,30		3
5utr ENST00000357736 MAFG	ath-miR166a-3p	20:33	13		-28,60	-30,60		3
5utr ENST00000359450 TIAF1	ath-miR156a-5p	4206:4225		-22,97	-19,20	-19,10		3
5utr ENST00000359963 CCT8L2	ath-miR166a-3p	87:108		-26,93	-23,70	-24,52		3
5utr ENST00000371950 HTR2C	ath-miR156a-5p	142:162		-21,35	-19,30	-20,50		3
5utr ENST00000371951 HTR2C	ath-miR156a-5p	146:166		-21,35	-19,30	-20,50		3
5utr ENST00000372043 GBGT1	ath-miR156a-5p	1:18	12	-21,76			-19,50	3
5utr ENST00000379251 SAT1	ath-miR166a-3p	133:153	13	-28,19			-25,40	3
5utr ENST00000379253 SAT1	ath-miR166a-3p	133:153	13	-28,19			-25,40	3
5utr ENST00000379254 SAT1	ath-miR166a-3p	133:153	13	-28,19			-25,40	3
5utr ENST00000379270 SAT1	ath-miR166a-3p	133:153	13	-28,19			-25,40	3
5utr ENST00000381418 HR	ath-miR166a-3p	507:519	12		-24,80	-28,91		3
5utr ENST00000383827 TTLL3	ath-miR156a-5p	969:990		-21,06	-19,30	-19,00		3
5utr ENST00000396926 AP3M2	ath-miR156a-5p	139:153	14		-20,90	-22,93		3
5utr ENST00000399510 DLG4	ath-miR156a-5p	354:373		-20,32	-19,70	-19,60		3
5utr ENST00000413454 NUP62	ath-miR156a-5p	102:121		-19,95	-20,60	-19,40		3
5utr ENST00000415496 MGRN1	ath-miR166a-3p	46:58	12		-26,40	-27,00		3
5utr ENST00000416849 TBXAS1	ath-miR156a-5p	289:311		-24,57	-19,90	-24,30		3
5utr ENST00000418878 CXCR2	ath-miR156a-5p	19:38		-19,87	-19,20	-19,90		3
5utr ENST00000444677 GARNL3	ath-miR166a-3p	29:42	13		-25,80	-28,90		3

5utr ENST00000455274 TTLL3	ath-miR156a-5p	38:59		-21,06	-19,30	-19,00		3
5utr ENST00000460265 LMNB1	ath-miR166a-3p	261:274	13		-25,30	-26,15		3
5utr ENST00000468904 XKRX	ath-miR156a-5p	382:402		-25,10	-25,00	-25,40		3
5utr ENST00000471155 TRIM59	ath-miR166a-3p	19:37		-28,56	-26,40	-26,70		3
5utr ENST00000471396 TRIM59	ath-miR166a-3p	17:35		-28,56	-26,40	-26,70		3
5utr ENST00000473661 TTLL3	ath-miR156a-5p	780:801		-21,06	-19,30	-19,00		3
5utr ENST00000474145 SLC2A5	ath-miR166a-3p	110:130		-33,91	-31,70	-31,80		3
5utr ENST00000476183 LIME1	ath-miR156a-5p	12:30	12	-20,54			-19,50	3
5utr ENST00000483754 RP11-432B6.3	ath-miR166a-3p	83:101		-28,56	-26,40	-26,70		3
5utr ENST00000495558 VWA1	ath-miR156a-5p	245:264		-19,87	-18,70	-20,01		3
5utr ENST00000496222 TRIM59	ath-miR166a-3p	14:32		-28,56	-26,40	-26,70		3
5utr ENST00000497245 LRCH4	ath-miR166a-3p	522:542			-23,90	-23,90	-23,40	3
5utr ENST00000498603 SEC61B	ath-miR166a-3p	107:119	12		-24,70	-25,58		3
5utr ENST00000502274 SH3TC2	ath-miR156a-5p	1388:1406		-22,32	-20,90	-21,31		3
5utr ENST00000511438 KIAA1257	ath-miR156a-5p	258:278		-21,76	-19,30		-20,50	3
5utr ENST00000517865 AP3M2	ath-miR156a-5p	1667:1681	14		-20,90	-22,93		3
5utr ENST00000517894 ADGRB1	ath-miR166a-3p	825:848		-25,52	-20,20	-23,00		3
5utr ENST00000518421 AP3M2	ath-miR156a-5p	263:277	14		-20,90	-22,93		3
5utr ENST00000520339 CTNNA1	ath-miR156a-5p	225:247			-21,20	-22,40	-20,40	3
5utr ENST00000521208 ADGRB1	ath-miR166a-3p	576:599		-25,52	-20,20	-23,00		3
5utr ENST00000522288 AP3M2	ath-miR156a-5p	128:142	14		-20,90	-22,93		3
5utr ENST00000530055 NADSYN1	ath-miR156a-5p	555:576			-17,10	-20,50	-19,30	3
5utr ENST00000530375 AP3M2	ath-miR156a-5p	65:79	14		-20,90	-22,93		3
5utr ENST00000531804 FAM167A	ath-miR156a-5p	417:436		-20,31	-20,40	-20,70		3
5utr ENST00000536343 MGRN1	ath-miR166a-3p	28:40	12		-26,40	-27,00		3
5utr ENST00000537729 LRRC43	ath-miR166a-3p	150:162	12		-23,50	-27,10		3
5utr ENST00000546474 BRF1	ath-miR156a-5p	7159:7180		-24,21	-24,40	-23,80		3

5utr ENST00000547562 BRF1	ath-miR166a-3p	70:90	13	-29,97			-25,80	3
5utr ENST00000549780 TGIF1	ath-miR156a-5p	42:61	14	-24,62			-22,30	3
5utr ENST00000561871 GANC	ath-miR156a-5p	416:435		-19,87	-20,10		-20,20	3
5utr ENST00000563788 YPEL3	ath-miR166a-3p	105:123		-31,05	-28,00	-27,60		3
5utr ENST00000566595 YPEL3	ath-miR166a-3p	102:120		-31,05	-28,00	-27,60		3
5utr ENST00000574686 MAFG	ath-miR166a-3p	14:27	13		-28,60	-30,60		3
5utr ENST00000577495 OGFOD3	ath-miR166a-3p	93:105	12		-24,60	-26,42		3
5utr ENST00000580163 KSR1	ath-miR166a-3p	156:176		-27,22	-24,60	-25,10		3
5utr ENST00000587747 MGRN1	ath-miR166a-3p	24:36	12		-26,40	-27,00		3
5utr ENST00000596217 NUP62	ath-miR156a-5p	1360:1379		-19,95	-20,60	-19,40		3
5utr ENST00000597017 KDELR1	ath-miR156a-5p	240:258		-21,89	-20,60	-22,50		3
5utr ENST00000615353 HIST1H4I	ath-miR166a-3p	635:655			-22,10	-22,20	-20,60	3
5utr ENST00000615747 DGCR2	ath-miR166a-3p	200:212	12		-24,10	-23,80		3
5utr ENST00000619071 LRCH4	ath-miR166a-3p	275:295			-23,90	-23,90	-23,40	3
5utr ENST00000630715 MICAL1	ath-miR166a-3p	42:62	13	-29,02			-25,30	3
cds ENST00000007722 ITGA3	ath-miR167a-5p	757:778		-21,76	-23,30	-21,70		3
cds ENST00000017003 XYLT2	ath-miR166a-3p	2440:2465		-29,22	-18,10	-26,00		3
cds ENST00000024061 SLC45A4	ath-miR166a-3p	2355:2374		-31,36	-28,90	-28,60		3
cds ENST00000033079 FAM13B	osa-miR168a-5p	2277:2295		-24,60		-25,60	-21,40	3
cds ENST00000038176 NSMAF	ath-miR172a	211:233	14	-24,16		-21,20		3
cds ENST00000066544 CDC27	ath-miR156a-5p	1649:1668		-21,79	-21,50		-19,70	3
cds ENST00000075430 CTDP1	ath-miR166a-3p	1777:1797		-27,07	-23,10	-23,90		3
cds ENST00000085219 CD22	ath-miR167a-5p	643:665		-23,22	-22,30	-21,20		3
cds ENST00000160298 CAMSAP3	ath-miR156a-5p	1068:1086		-20,89	-20,20	-20,80		3
cds ENST00000200181 ITGB4	ath-miR167a-5p	232:253		-22,77	-23,40	-21,40		3
cds ENST00000206765 TGM1	ath-miR167a-5p	1520:1540		-23,83	-22,10	-20,90		3
cds ENST00000216194 ADSL	ath-miR167a-5p	1259:1278		-20,09	-22,10	-20,20		3
cds ENST00000217926 H2BFWT	osa-miR168a-5p	372:390		-27,35		-23,70	-21,90	3

cds ENST00000218056 WDR13	ath-miR156a-5p	1222:1241			-21,80	-22,50	-20,10	3
cds ENST00000219611 CAPN15	ath-miR166a-3p	2229:2249		-25,05	-22,50	-21,90		3
cds ENST00000222584 SP4	ath-miR172a	2288:2310		-21,00	-23,00	-20,30		3
cds ENST00000223145 GLCCI1	ath-miR156a-5p	1040:1060		-21,26	-19,40	-19,20		3
cds ENST00000224721 CDH23	ath-miR156a-5p	9544:9563		-20,84	-19,40	-19,80		3
cds ENST00000225927 NAGLU	ath-miR166a-3p	303:315	12		-24,80	-24,80		3
cds ENST00000228955 GTF2H3	ath-miR156a-5p	632:650		-21,72	-20,70	-21,10		3
cds ENST00000230538 LAMA4	ath-miR172a	2790:2810	16	-20,87	-22,20			3
cds ENST00000231484 PCDH12	ath-miR166a-3p	2798:2812	14		-28,30	-28,70		3
cds ENST00000233099 HEATR5B	ath-miR167a-5p	3578:3597		-24,93	-24,60	-22,40		3
cds ENST00000234142 GREB1	ath-miR156a-5p	1888:1909		-28,56	-24,50	-24,40		3
cds ENST00000241256 GHSR	ath-miR156a-5p	664:683		-19,67	-19,40	-19,90		3
cds ENST00000241274 SLITRK3	ath-miR156a-5p	952:973		-21,67	-18,30	-21,71		3
cds ENST00000242351 ZC3HAV1	ath-miR156a-5p	1764:1786		-24,46	-21,10	-21,10		3
cds ENST00000243964 SLC12A5	ath-miR166a-3p	3296:3315		-23,14	-22,00	-21,70		3
cds ENST00000244007 PLCG1	ath-miR167a-5p	823:841		-21,11	-21,30	-19,40		3
cds ENST00000244174 IL9R	ath-miR156a-5p	1518:1537		-20,29	-20,10	-20,40		3
cds ENST00000245544 NUP85	ath-miR156a-5p	1667:1686		-22,68	-22,10	-22,50		3
cds ENST00000249284 TAS2R16	ath-miR156a-5p	156:176		-21,85	-21,50	-22,00		3
cds ENST00000251871 MED17	ath-miR156a-5p	1568:1581	13		-18,30	-20,70		3
cds ENST00000252015 TRPC4AP	ath-miR166a-3p	146:160	14		-27,80	-28,00		3
cds ENST00000254605 RRP8	ath-miR167a-5p	1324:1346		-19,89	-12,10	-19,00		3
cds ENST00000256646 NOTCH2	ath-miR167a-5p	4676:4696		-20,93	-21,70	-19,40		3
cds ENST00000257700 RINT1	ath-miR156a-5p	1188:1200	12		-19,90	-21,50		3
cds ENST00000259362 OR13C9	ath-miR172a	666:686		-24,09	-24,90	-22,30		3
cds ENST00000261646 SREBF1	ath-miR166a-3p	2316:2336		-28,21	-24,80	-25,36		3
cds ENST00000262318 CLCN7	ath-miR166a-3p	15:35		-25,05	-21,80	-22,10		3
cds ENST00000262410 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3

cds ENST00000262547 DZANK1	ath-miR156a-5p	664:683		-21,50	-20,60	-21,00		3
cds ENST00000264276 ALS2	ath-miR166a-3p	43:63	12	-30,19		-31,60		3
cds ENST00000264638 CNTNAP1	ath-miR166a-3p	2617:2637		-29,16	-25,40	-25,90		3
cds ENST00000264992 ASTE1	ath-miR156a-5p	1613:1631		-27,23	-25,90	-26,50		3
cds ENST00000265351 XPO5	ath-miR156a-5p	2692:2711		-20,18	-18,50	-19,90		3
cds ENST00000265562 PTPN23	ath-miR166a-3p	3277:3290	13		-24,70	-24,30		3
cds ENST00000265742 ANKIB1	ath-miR156a-5p	926:946		-26,02	-22,60	-22,70		3
cds ENST00000265806 R3HCC1	ath-miR167a-5p	176:196		-20,00	-20,50	-19,30		3
cds ENST00000265960 MAPKAP1	ath-miR166a-3p	1039:1059		-32,75	-30,60	-30,70		3
cds ENST00000269844 PRDM15	ath-miR166a-3p	2669:2688		-31,83	-28,40	-28,40		3
cds ENST00000271854 NUP210L	ath-miR172a	4661:4681	14	-21,10	-21,80			3
cds ENST00000273153 CSRNP1	ath-miR156a-5p	99:118		-19,54	-19,20	-23,20		3
cds ENST00000273814 DGKQ	ath-miR166a-3p	340:352	12		-24,90	-26,10		3
cds ENST00000274498 ARHGAP26	ath-miR166a-3p	494:513		-27,86	-24,00	-24,60		3
cds ENST00000280481 FREM2	ath-miR156a-5p	7102:7123		-20,42	-18,80	-19,10		3
cds ENST00000281416 MFSD6	ath-miR156a-5p	898:919		-22,53	-20,10	-20,20		3
cds ENST00000282406 PLEKHH2	ath-miR156a-5p	4428:4446		-23,55	-22,60	-22,70		3
cds ENST00000282516 NIPBL	ath-miR166a-3p	657:679		-19,84	-16,80	-19,90		3
cds ENST00000284311 GPR15	ath-miR156a-5p	493:513		-19,81	-20,30	-20,10		3
cds ENST00000285243 ANKRD40	ath-miR156a-5p	656:670	14		-16,20	-21,70		3
cds ENST00000286827 TIAM1	ath-miR156a-5p	304:325		-24,09	-20,40	-22,80		3
cds ENST00000288368 PREX2	ath-miR156a-5p	3956:3975		-21,48	-19,20	-19,50		3
cds ENST00000292616 LRWD1	ath-miR166a-3p	1112:1126	14		-27,50	-28,74		3
cds ENST00000293328 STAT5B	ath-miR166a-3p	302:321		-24,05	-22,00	-21,80		3
cds ENST00000293350 ALDH16A1	ath-miR166a-3p	882:902		-27,05	-25,10	-28,10		3
cds ENST00000293373 NCKAP1L	ath-miR166a-3p	1235:1257		-32,64	-23,60	-26,70		3
cds ENST00000293373 NCKAP1L	ath-miR156a-5p	418:438		-21,84	-19,00	-19,30		3
cds ENST00000294618 DOCK6	ath-miR166a-3p	3043:3055	12		-24,10	-29,90		3

cds ENST00000296452 BSN	ath-miR166a-3p	8653:8673		-24,47	-23,10	-30,15		3
cds ENST00000297183 ANKHD1	ath-miR156a-5p	1098:1117		-19,19	-19,50	-19,10		3
cds ENST00000299543 CTDP1	ath-miR166a-3p	1420:1440		-27,07	-23,10	-23,90		3
cds ENST00000300027 FANCI	ath-miR156a-5p	924:945		-21,41	-23,40	-24,00		3
cds ENST00000303921 GPR37	ath-miR156a-5p	1807:1828		-22,61	-19,60	-21,60		3
cds ENST00000304338 PPP4R4	ath-miR156a-5p	2253:2272		-20,52	-18,80	-21,80		3
cds ENST00000304613 KNDC1	ath-miR166a-3p	2189:2209		-30,50	-27,40	-27,60		3
cds ENST00000307179 USP8	ath-miR172a	619:639	13	-27,32	-9,87			3
cds ENST00000307859 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000308508 CSPG4	ath-miR166a-3p	3710:3729		-24,26	-22,60	-23,09		3
cds ENST00000308811 ZNF596	ath-miR156a-5p	1279:1300		-19,16	-17,60	-19,30		3
cds ENST00000309428 FAM134C	ath-miR156a-5p	787:806		-20,25	-23,20	-23,10		3
cds ENST00000310317 SLC4A2	ath-miR166a-3p	2182:2205		-31,16	-26,40	-26,60		3
cds ENST00000310373 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000310775 FANCI	ath-miR156a-5p	924:945		-21,41	-23,40	-24,00		3
cds ENST00000313038 LAIR1	ath-miR156a-5p	493:512		-22,65	-22,50	-22,40		3
cds ENST00000314393 ZHX2	ath-miR166a-3p	1996:2008	12		-24,50	-25,21		3
cds ENST00000320552 ZNF596	ath-miR156a-5p	1279:1300		-19,16	-17,60	-19,30		3
cds ENST00000321543 OR51L1	ath-miR156a-5p	84:104		-21,39	-19,60	-22,40		3
cds ENST00000322285 SV2C	ath-miR156a-5p	731:744	13		-24,30	-25,00		3
cds ENST00000328354 CHEK2	ath-miR172a	846:866	14	-21,10	-21,80			3
cds ENST00000328405 KCNH8	ath-miR156a-5p	3083:3103		-24,26	-22,20	-22,20		3
cds ENST00000329314 TRIM61	ath-miR156a-5p	313:327	14		-22,60	-22,70		3
cds ENST00000329524 NFATC3	ath-miR156a-5p	928:946		-21,30	-20,50	-21,40		3
cds ENST00000331433 CLCNKA	ath-miR156a-5p	890:908		-32,11	-30,00	-30,10		3
cds ENST00000333884 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000337908 MS4A4A	ath-miR166a-3p	381:394	13		-25,20	-25,82		3
cds ENST00000338316 ADCY2	ath-miR156a-5p	1280:1292	12		-26,20	-28,80		3

cds ENST00000339777 LRRC43	ath-miR166a-3p	255:267	12		-23,50	-27,10		3
cds ENST00000340381 TMEM201	ath-miR156a-5p	1473:1486	13		-22,80	-22,80		3
cds ENST00000342187 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000344290 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3
cds ENST00000345063 TPRG1	ath-miR156a-5p	521:540		-23,37	-23,30	-23,30		3
cds ENST00000345506 STAT5A	ath-miR166a-3p	343:363		-24,22	-22,90	-22,40		3
cds ENST00000346183 NFATC3	ath-miR156a-5p	928:946		-21,30	-20,50	-21,40		3
cds ENST00000347132 KCNQ4	ath-miR166a-3p	449:461	12		-20,90	-22,40		3
cds ENST00000348231 LAIR1	ath-miR156a-5p	463:482		-22,65	-22,50	-22,40		3
cds ENST00000349223 NFATC3	ath-miR156a-5p	928:946		-21,30	-20,50	-21,40		3
cds ENST00000350060 ARHGAP4	ath-miR156a-5p	974:992		-19,86	-20,50	-20,60		3
cds ENST00000355072 HTT	ath-miR156a-5p	5692:5711	15	-27,51		-24,30		3
cds ENST00000355815 SREBF1	ath-miR166a-3p	2406:2426		-28,21	-24,80	-25,36		3
cds ENST00000356385 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000357605 OR51D1	ath-miR156a-5p	560:578		-22,33	-20,70	-21,20		3
cds ENST00000358334 MYOF	ath-miR166a-3p	3016:3036		-26,84	-25,40	-24,40		3
cds ENST00000358334 MYOF	ath-miR156a-5p	4201:4224		-23,11	-17,20	-23,30		3
cds ENST00000358866 DZANK1	ath-miR156a-5p	664:683		-21,50	-20,60	-21,00		3
cds ENST00000359263 MYOF	ath-miR166a-3p	3055:3075		-26,84	-25,40	-24,40		3
cds ENST00000359263 MYOF	ath-miR156a-5p	4240:4263		-23,11	-17,20	-23,30		3
cds ENST00000360013 KALRN	ath-miR166a-3p	5047:5067		-26,32	-22,80	-21,65		3
cds ENST00000360839 ANKHD1	ath-miR156a-5p	5949:5968		-19,19	-19,50	-19,10		3
cds ENST00000361099 STAT1	ath-miR156a-5p	1515:1529	14		-18,20	-21,51		3
cds ENST00000361516 FCRL2	ath-miR156a-5p	66:85		-24,66	-22,60	-23,00		3
cds ENST00000368181 FCRL2	ath-miR156a-5p	66:85		-24,66	-22,60	-23,00		3
cds ENST00000368571 KNDC1	ath-miR166a-3p	1994:2014		-30,50	-27,40	-27,60		3
cds ENST00000368801 HRNR	ath-miR156a-5p	3828:3850		-23,11	-19,90	-23,01		3
cds ENST00000368801 HRNR	ath-miR156a-5p	5238:5260		-23,11	-19,90	-23,01		3

cds ENST00000368801 HRNR	ath-miR156a-5p	6648:6670		-23,11	-19,90	-23,01		3
cds ENST00000369209 HSPA12A	ath-miR166a-3p	892:911		-26,35	-21,90	-22,40		3
cds ENST00000370016 ARHGAP4	ath-miR156a-5p	911:929		-19,86	-20,50	-20,60		3
cds ENST00000370028 ARHGAP4	ath-miR156a-5p	1094:1112		-19,86	-20,50	-20,60		3
cds ENST00000371149 APCDD1L	ath-miR166a-3p	580:600		-25,68	-23,70	-24,01		3
cds ENST00000373498 MAPKAP1	ath-miR166a-3p	1039:1059		-32,75	-30,60	-30,70		3
cds ENST00000373503 MAPKAP1	ath-miR166a-3p	463:483		-32,75	-30,60	-30,70		3
cds ENST00000373511 MAPKAP1	ath-miR166a-3p	1039:1059		-32,75	-30,60	-30,70		3
cds ENST00000374694 FZD8	ath-miR166a-3p	1808:1821	13		-29,20	-29,50		3
cds ENST00000375679 CLCNKB	ath-miR156a-5p	890:908		-28,42	-27,20	-27,80		3
cds ENST00000375692 CLCNKA	ath-miR156a-5p	890:908		-32,11	-30,00	-30,10		3
cds ENST00000376452 KIAA1217	ath-miR156a-5p	3847:3865		-19,16	-18,30	-26,61		3
cds ENST00000376454 KIAA1217	ath-miR156a-5p	5554:5572		-19,16	-18,30	-26,61		3
cds ENST00000376462 KIAA1217	ath-miR156a-5p	3517:3535		-19,16	-18,30	-26,61		3
cds ENST00000376724 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000378004 ARHGAP26	ath-miR166a-3p	494:513		-27,86	-24,00	-24,60		3
cds ENST00000378486 PLCH2	ath-miR166a-3p	189:201	12		-23,70	-30,55		3
cds ENST00000378858 LRRN4	ath-miR156a-5p	789:808		-21,93	-19,60	-19,80		3
cds ENST00000380217 FRY	osa-miR168a-5p	463:483	14	-31,94		-31,10		3
cds ENST00000380250 FRY	osa-miR168a-5p	8914:8934	14	-31,94		-31,10		3
cds ENST00000381486 GREB1	ath-miR156a-5p	1888:1909		-28,56	-24,50	-24,40		3
cds ENST00000382745 CLCN7	ath-miR166a-3p	15:35		-25,05	-21,80	-22,10		3
cds ENST00000383610 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000389758 MROH2A	ath-miR156a-5p	1525:1546		-22,91	-20,50	-22,00		3
cds ENST00000389793 LYST	ath-miR156a-5p	214:234		-23,37	-22,20	-21,90		3
cds ENST00000389794 LYST	ath-miR156a-5p	214:234		-23,37	-22,20	-21,90		3
cds ENST00000391742 LAIR1	ath-miR156a-5p	514:533		-22,65	-22,50	-22,40		3
cds ENST00000391743 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3

cds ENST00000392002 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000392322 STAT1	ath-miR156a-5p	1515:1529	14		-18,20	-21,51		3
cds ENST00000392323 STAT1	ath-miR156a-5p	1521:1535	14		-18,20	-21,51		3
cds ENST00000392328 MFSD6	ath-miR156a-5p	898:919		-22,53	-20,10	-20,20		3
cds ENST00000392826 SLC4A2	ath-miR166a-3p	2401:2424		-31,16	-26,40	-26,60		3
cds ENST00000393085 MTPN	ath-miR156a-5p	202:222		-22,11	-21,30	-23,02		3
cds ENST00000394063 MAPKAP1	ath-miR166a-3p	463:483		-32,75	-30,60	-30,70		3
cds ENST00000394126 MED24	ath-miR156a-5p	291:310		-23,19	-20,70	-20,70		3
cds ENST00000394128 MED24	ath-miR156a-5p	216:235		-23,19	-20,70	-20,70		3
cds ENST00000395757 SREBF1	ath-miR166a-3p	1554:1574		-28,21	-24,80	-25,36		3
cds ENST00000396581 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000397527 CEP250	ath-miR166a-3p	285:306		-26,59	-23,70	-23,04		3
cds ENST00000398548 PRDM15	ath-miR166a-3p	1682:1701		-31,83	-28,40	-28,40		3
cds ENST00000398612 ZNF596	ath-miR156a-5p	1279:1300		-19,16	-17,60	-19,30		3
cds ENST00000398788 CDH23	ath-miR156a-5p	2674:2693		-20,84	-19,40	-19,80		3
cds ENST00000400651 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000400677 HMX1	ath-miR166a-3p	821:843		-30,79	-25,00	-28,00		3
cds ENST00000401669 NRXN1	ath-miR156a-5p	2572:2584	12		-20,00	-19,22		3
cds ENST00000402717 NRXN1	ath-miR156a-5p	1717:1729	12		-20,00	-19,22		3
cds ENST00000404971 NRXN1	ath-miR156a-5p	2692:2704	12		-20,00	-19,22		3
cds ENST00000405006 THADA	ath-miR156a-5p	5543:5561		-22,32	-22,80	-23,60		3
cds ENST00000405472 NRXN1	ath-miR156a-5p	2536:2548	12		-20,00	-19,22		3
cds ENST00000405975 THADA	ath-miR156a-5p	5543:5561		-22,32	-22,80	-23,60		3
cds ENST00000406316 NRXN1	ath-miR156a-5p	2572:2584	12		-20,00	-19,22		3
cds ENST00000406859 NRXN1	ath-miR156a-5p	1762:1774	12		-20,00	-19,22		3
cds ENST00000409465 STAT1	ath-miR156a-5p	1515:1529	14		-18,20	-21,51		3
cds ENST00000409552 CLEC16A	ath-miR156a-5p	929:948		-20,98	-18,90	-21,40		3
cds ENST00000409632 ALS2	ath-miR166a-3p	43:63	12	-30,19		-31,60		3

cds ENST00000409790 CLEC16A	ath-miR156a-5p	935:954		-20,98	-18,90	-21,40		3
cds ENST00000410052 ALS2	ath-miR166a-3p	43:63	12	-30,19		-31,60		3
cds ENST00000413014 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000413384 SLC4A2	ath-miR166a-3p	2428:2451		-31,16	-26,40	-26,60		3
cds ENST00000415613 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3
cds ENST00000417454 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000418267 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000419816 PLCH2	ath-miR166a-3p	189:201	12		-23,70	-30,55		3
cds ENST00000420383 ARHGAP4	ath-miR156a-5p	974:992		-19,86	-20,50	-20,60		3
cds ENST00000421981 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000422911 PRDM15	ath-miR166a-3p	1742:1761		-31,83	-28,40	-28,40		3
cds ENST00000422918 ARHGAP4	ath-miR156a-5p	299:317		-19,86	-20,50	-20,60		3
cds ENST00000425845 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000425934 CEP250	ath-miR166a-3p	285:306		-26,59	-23,70	-23,04		3
cds ENST00000427970 GHSR	ath-miR156a-5p	664:683		-19,67	-19,40	-19,90		3
cds ENST00000429471 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000430453 KIAA1217	ath-miR156a-5p	3517:3535		-19,16	-18,30	-26,61		3
cds ENST00000430485 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000431397 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000431508 ANKHD1	ath-miR156a-5p	1917:1936		-19,19	-19,50	-19,10		3
cds ENST00000432692 TANK	ath-miR156a-5p	332:350		-21,70	-19,60	-20,50		3
cds ENST00000433049 ANKHD1	ath-miR156a-5p	1515:1534		-19,19	-19,50	-19,10		3
cds ENST00000433067 PRDM15	ath-miR166a-3p	2669:2688		-31,83	-28,40	-28,40		3
cds ENST00000433713 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000433971 TPRG1	ath-miR156a-5p	521:540		-23,37	-23,30	-23,30		3
cds ENST00000434151 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000434277 LAIR1	ath-miR156a-5p	511:530		-22,65	-22,50	-22,40		3
cds ENST00000434758 C11orf70	ath-miR156a-5p	640:658		-20,76	-20,10	-20,60		3

cds ENST00000436170 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000436951 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000437563 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000445004 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000446248 CAMSAP3	ath-miR156a-5p	1149:1167		-20,89	-20,20	-20,80		3
cds ENST00000447016 PRDM15	ath-miR166a-3p	1571:1590		-31,83	-28,40	-28,40		3
cds ENST00000447207 PRDM15	ath-miR166a-3p	1571:1590		-31,83	-28,40	-28,40		3
cds ENST00000447302 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000447611 FANCI	ath-miR156a-5p	924:945		-21,41	-23,40	-24,00		3
cds ENST00000447648 TECPR1	ath-miR166a-3p	781:804		-31,72	-27,10	-28,00		3
cds ENST00000448238 NIPBL	ath-miR166a-3p	657:679		-19,84	-16,80	-19,90		3
cds ENST00000448525 CLCN7	ath-miR166a-3p	15:35		-25,05	-21,80	-22,10		3
cds ENST00000449969 PLCH2	ath-miR166a-3p	108:120	12		-23,70	-30,55		3
cds ENST00000451813 TRPC4AP	ath-miR166a-3p	146:160	14		-27,80	-28,00		3
cds ENST00000454036 SLC12A5	ath-miR166a-3p	3365:3384		-23,14	-22,00	-21,70		3
cds ENST00000456884 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000458595 KIAA1217	ath-miR156a-5p	3772:3790		-19,16	-18,30	-26,61		3
cds ENST00000461052 ARHGAP4	ath-miR156a-5p	905:923		-19,86	-20,50	-20,60		3
cds ENST00000461735 SLC4A2	ath-miR166a-3p	2386:2409		-31,16	-26,40	-26,60		3
cds ENST00000464606 ZC3HAV1	ath-miR156a-5p	2130:2152		-24,46	-21,10	-21,10		3
cds ENST00000467448 ALS2	ath-miR166a-3p	43:63	12	-30,19		-31,60		3
cds ENST00000471652 ZC3HAV1	ath-miR156a-5p	1764:1786		-24,46	-21,10	-21,10		3
cds ENST00000474878 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000475390 SLITRK3	ath-miR156a-5p	952:973		-21,67	-18,30	-21,71		3
cds ENST00000478144 PQLC1	ath-miR156a-5p	127:146		-20,45	-20,10	-21,00		3
cds ENST00000485713 SLC4A2	ath-miR166a-3p	2428:2451		-31,16	-26,40	-26,60		3
cds ENST00000501516 MED24	ath-miR156a-5p	216:235		-23,19	-20,70	-20,70		3
cds ENST00000502753 TRPC7	ath-miR166a-3p	893:906	13		-22,70	-25,10		3

cds ENST00000502798 SV2C	ath-miR156a-5p	731:744	13		-24,30	-25,00		3
cds ENST00000503275 TRPC7	ath-miR166a-3p	893:906	13		-22,70	-25,10		3
cds ENST00000509682 KCNQ4	ath-miR166a-3p	449:461	12		-20,90	-22,40		3
cds ENST00000510286 DGKQ	ath-miR166a-3p	115:127	12		-24,90	-26,10		3
cds ENST00000513104 TRPC7	ath-miR166a-3p	893:906	13		-22,70	-25,10		3
cds ENST00000514044 ASTE1	ath-miR156a-5p	1613:1631		-27,23	-25,90	-26,50		3
cds ENST00000514182 CSRNP1	ath-miR156a-5p	99:118		-19,54	-19,20	-23,20		3
cds ENST00000524981 CFAP54	ath-miR156a-5p	6832:6852		-19,28	-19,60	-20,20		3
cds ENST00000526781 C11orf70	ath-miR156a-5p	640:658		-20,76	-20,10	-20,60		3
cds ENST00000532219 ANKHD1-EIF4EBP3	ath-miR156a-5p	5949:5968		-19,19	-19,50	-19,10		3
cds ENST00000535071 MED24	ath-miR156a-5p	66:85		-23,19	-20,70	-20,70		3
cds ENST00000535508 MED24	ath-miR156a-5p	216:235		-23,19	-20,70	-20,70		3
cds ENST00000536375 GTF2H3	ath-miR156a-5p	626:644		-21,72	-20,70	-21,10		3
cds ENST00000537121 ADCY2	ath-miR156a-5p	1274:1286	12		-26,20	-28,80		3
cds ENST00000537674 MED24	ath-miR156a-5p	291:310		-23,19	-20,70	-20,70		3
cds ENST00000539627 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000540768 NUP85	ath-miR156a-5p	476:495		-22,68	-22,10	-22,50		3
cds ENST00000541036 TIAM1	ath-miR156a-5p	304:325		-24,09	-20,40	-22,80		3
cds ENST00000542859 FRY	osa-miR168a-5p	8917:8937	14	-31,94		-31,10		3
cds ENST00000542945 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000543154 GTF2H3	ath-miR156a-5p	413:431		-21,72	-20,70	-21,10		3
cds ENST00000543341 GTF2H3	ath-miR156a-5p	755:773		-21,72	-20,70	-21,10		3
cds ENST00000544232 TMEM91	ath-miR156a-5p	330:350		-22,50	-22,50	-21,90		3
cds ENST00000545638 NCKAP1L	ath-miR166a-3p	1085:1107		-32,64	-23,60	-26,70		3
cds ENST00000545638 NCKAP1L	ath-miR156a-5p	268:288		-21,84	-19,00	-19,30		3
cds ENST00000547289 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000548221 NCKAP1L	ath-miR166a-3p	1235:1257		-32,64	-23,60	-26,70		3

cds ENST00000548672 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000549728 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000552119 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000571987 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3
cds ENST00000575270 NFATC3	ath-miR156a-5p	928:946		-21,30	-20,50	-21,40		3
cds ENST00000578161 MED24	ath-miR156a-5p	291:310		-23,19	-20,70	-20,70		3
cds ENST00000579298 NUP85	ath-miR156a-5p	1532:1551		-22,68	-22,10	-22,50		3
cds ENST00000579324 NUP85	ath-miR156a-5p	1331:1350		-22,68	-22,10	-22,50		3
cds ENST00000579900 NUP85	ath-miR156a-5p	86:105		-22,68	-22,10	-22,50		3
cds ENST00000582023 MED24	ath-miR156a-5p	354:373		-23,19	-20,70	-20,70		3
cds ENST00000585306 MED24	ath-miR156a-5p	216:235		-23,19	-20,70	-20,70		3
cds ENST00000585894 FAM134C	ath-miR156a-5p	496:515		-20,25	-23,20	-23,10		3
cds ENST00000588868 STAT5A	ath-miR166a-3p	343:363		-24,22	-22,90	-22,40		3
cds ENST00000590949 STAT5A	ath-miR166a-3p	343:363		-24,22	-22,90	-22,40		3
cds ENST00000591587 NAGLU	ath-miR166a-3p	46:58	12		-24,80	-24,80		3
cds ENST00000591598 CTDP1	ath-miR166a-3p	1573:1593		-27,07	-23,10	-23,90		3
cds ENST00000598234 CTD-3088G3.8	ath-miR166a-3p	7884:7897	13		-25,10	-26,90		3
cds ENST00000604123 TMEM91	ath-miR156a-5p	501:521		-22,50	-22,50	-21,90		3
cds ENST00000609981 PLCH2	ath-miR166a-3p	180:192	12		-23,70	-30,55		3
cds ENST00000610549 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000610596 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000610719 CPEB1	ath-miR156a-5p	1556:1569	13		-23,60	-23,30		3
cds ENST00000610746 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000610772 MROH2A	ath-miR156a-5p	1534:1555		-22,91	-20,50	-22,00		3
cds ENST00000611031 CPEB1	ath-miR156a-5p	1556:1569	13		-23,60	-23,30		3
cds ENST00000611163 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000611304 LAIR1	ath-miR156a-5p	481:500		-22,65	-22,50	-22,40		3

cds ENST00000611436 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000612096 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000612184 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000612535 MILR1	ath-miR156a-5p	38:53	15		-23,30	-23,30		3
cds ENST00000612862 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000613122 CTDP1	ath-miR166a-3p	1777:1797		-27,07	-23,10	-23,90		3
cds ENST00000613311 LAIR1	ath-miR156a-5p	511:530		-22,65	-22,50	-22,40		3
cds ENST00000613649 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000613801 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000614384 MED24	ath-miR156a-5p	216:235		-23,19	-20,70	-20,70		3
cds ENST00000614405 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000614662 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000614889 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000614918 CPEB1	ath-miR156a-5p	1637:1650	13		-23,60	-23,30		3
cds ENST00000614937 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000614946 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000615198 CPEB1	ath-miR156a-5p	1556:1569	13		-23,60	-23,30		3
cds ENST00000615220 MILR1	ath-miR156a-5p	38:53	15		-23,30	-23,30		3
cds ENST00000615407 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000616319 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000616332 TRIM61	ath-miR156a-5p	313:327	14		-22,60	-22,70		3
cds ENST00000616351 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000616413 LAIR1	ath-miR156a-5p	514:533		-22,65	-22,50	-22,40		3
cds ENST00000616456 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000616498 MILR1	ath-miR156a-5p	38:53	15		-23,30	-23,30		3
cds ENST00000616612 LAIR1	ath-miR156a-5p	514:533		-22,65	-22,50	-22,40		3
cds ENST00000616724 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000616775 CPEB1	ath-miR156a-5p	1346:1359	13		-23,60	-23,30		3

cds ENST00000616959 CPEB1	ath-miR156a-5p	1565:1578	13		-23,60	-23,30		3
cds ENST00000617029 LAIR1	ath-miR156a-5p	511:530		-22,65	-22,50	-22,40		3
cds ENST00000617071 MILR1	ath-miR156a-5p	38:53	15		-23,30	-23,30		3
cds ENST00000617386 LAIR1	ath-miR156a-5p	511:530		-22,65	-22,50	-22,40		3
cds ENST00000617462 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000617522 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000617954 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000617958 CPEB1	ath-miR156a-5p	1751:1764	13		-23,60	-23,30		3
cds ENST00000618029 MAPT	ath-miR156a-5p	1325:1337	12		-22,30	-22,90		3
cds ENST00000618160 GTF2H3	ath-miR156a-5p	317:335		-21,72	-20,70	-21,10		3
cds ENST00000618291 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000618434 LAIR1	ath-miR156a-5p	514:533		-22,65	-22,50	-22,40		3
cds ENST00000618449 CPEB1	ath-miR156a-5p	1346:1359	13		-23,60	-23,30		3
cds ENST00000618825 MAPT	ath-miR156a-5p	1325:1337	12		-22,30	-22,90		3
cds ENST00000618891 TRIM40	ath-miR156a-5p	93:105	12		-23,70	-24,40		3
cds ENST00000619136 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000619286 MILR1	ath-miR156a-5p	38:53	15		-23,30	-23,30		3
cds ENST00000619696 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000619717 LAIR1	ath-miR156a-5p	514:533		-22,65	-22,50	-22,40		3
cds ENST00000619817 LAIR1	ath-miR156a-5p	463:482		-22,65	-22,50	-22,40		3
cds ENST00000619887 CDH23	ath-miR156a-5p	2674:2693		-20,84	-19,40	-19,80		3
cds ENST00000619905 PPP4R4	ath-miR156a-5p	2253:2272		-20,52	-18,80	-21,80		3
cds ENST00000620077 LAIR1	ath-miR156a-5p	463:482		-22,65	-22,50	-22,40		3
cds ENST00000620182 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000620212 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000620357 LAIR1	ath-miR156a-5p	463:482		-22,65	-22,50	-22,40		3
cds ENST00000620687 PLCH2	ath-miR166a-3p	189:201	12		-23,70	-30,55		3
cds ENST00000620726 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3

cds ENST00000621278 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000621291 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000621769 LAIR1	ath-miR156a-5p	460:479		-22,65	-22,50	-22,40		3
cds ENST00000622097 LAIR1	ath-miR156a-5p	463:482		-22,65	-22,50	-22,40		3
cds ENST00000622279 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000622589 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000622653 GP6	ath-miR156a-5p	13:32		-21,61	-21,10	-21,60		3
cds ENST00000622827 CDH23	ath-miR156a-5p	9394:9413		-20,84	-19,40	-19,80		3
cds ENST00000625672 NRXN1	ath-miR156a-5p	2548:2560	12		-20,00	-19,22		3
cds ENST00000626246 PLCH2	ath-miR166a-3p	189:201	12		-23,70	-30,55		3
cds ENST00000627711 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3
cds ENST00000627854 PLCH2	ath-miR166a-3p	108:120	12		-23,70	-30,55		3
cds ENST00000629368 MAPT	ath-miR156a-5p	1325:1337	12		-19,90	-21,76		3
cds ENST00000630543 NRXN1	ath-miR156a-5p	2548:2560	12		-20,00	-19,22		3
cds ENST00000631674 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000632172 CPEB1	ath-miR156a-5p	1751:1764	13		-23,60	-23,30		3
cds ENST00000632301 CTDP1	ath-miR166a-3p	1777:1797		-27,07	-23,10	-23,90		3
cds ENST00000632305 CPEB1	ath-miR156a-5p	1541:1554	13		-23,60	-23,30		3
cds ENST00000632450 CTDP1	ath-miR166a-3p	1573:1593		-27,07	-23,10	-23,90		3
cds ENST00000632526 CPEB1	ath-miR156a-5p	1331:1344	13		-23,60	-23,30		3
cds ENST00000632932 CTDP1	ath-miR166a-3p	1777:1797		-27,07	-23,10	-23,90		3
cds ENST00000633054 MAPT	ath-miR156a-5p	1325:1337	12		-22,30	-22,90		3
cds ENST00000633293 CPEB1	ath-miR156a-5p	1565:1578	13		-23,60	-23,30		3
cds ENST00000633801 MAPT	ath-miR156a-5p	1325:1337	12		-22,30	-22,90		3
3utr ENST00000171887 TNS1	ath-miR156a-5p	2841:2860		-22,85	-21,40	-22,00	-20,00	4
3utr ENST00000173229 NTN1	ath-miR156a-5p	3211:3229		-21,00	-20,80	-21,00	-19,80	4
3utr ENST00000192788 UHRF1BP1	ath-miR156a-5p	869:890		-23,91	-21,60	-23,40	-22,20	4
3utr ENST00000219343 SLC7A6	ath-miR156a-5p	1132:1152		-23,43	-23,20	-23,90	-21,40	4

3utr ENST00000219596 MEFV	ath-miR156a-5p	348:368		-24,83	-24,20	-24,60	-22,70	4
3utr ENST00000223208 CEP41	ath-miR156a-5p	4222:4241		-24,42	-21,70	-22,20	-19,50	4
5utr ENST00000320717 GLS	ath-miR156a-5p	140:160		-21,52	-19,50	-20,20	-19,10	4
5utr ENST00000338435 GLS	ath-miR156a-5p	133:153		-21,52	-19,50	-20,20	-19,10	4
5utr ENST00000341947 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000360461 PLEKHG4	ath-miR156a-5p	114:133		-24,04	-23,70	-24,30	-19,40	4
5utr ENST00000361917 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000374708 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000383087 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000383088 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000383219 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000395194 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000420405 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000425729 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000435763 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000438711 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000439039 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000447349 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000447741 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000448717 COL11A2	ath-miR156a-5p	173:192		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000451040 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000452044 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000452730 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000452937 COL11A2	ath-miR156a-5p	128:147		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000457788 COL11A2	ath-miR156a-5p	141:160		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000468137 ABTB1	ath-miR156a-5p	16:37		-21,27	-20,60	-20,10	-19,10	4
5utr ENST00000508079 WDR1	ath-miR156a-5p	32:53		-22,75	-22,40	-22,70	-20,20	4
5utr ENST00000536384 SERINC2	ath-miR156a-5p	51:70		-19,62	-20,40	-22,00	-19,20	4

5utr ENST00000549491 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000549811 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000549836 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000549885 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000550998 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000551413 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000551542 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000551758 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000552134 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000552473 COL11A2	ath-miR156a-5p	142:161		-27,57	-26,50	-26,30	-25,60	4
5utr ENST00000563969 PLEKHG4	ath-miR156a-5p	114:133		-24,04	-23,70	-24,30	-19,40	4
5utr ENST00000571253 GABARAP	ath-miR156a-5p	531:550		-23,74	-22,80	-23,10	-20,20	4
5utr ENST00000593844 DAPK3	ath-miR156a-5p	74:92		-22,27	-21,40	-22,30	-19,20	4
cds ENST00000220616 TG	ath-miR156a-5p	5156:5174		-30,67	-29,70	-29,90	-27,90	4

Supplementary Table S2. Results of the KEGG pathway mapping analysis for predicted plant miRNA targets. The KEGG pathway mapping was performed by the KAAS service. The human targets predicted for 5 evaluated plant miRNAs were used.

KEGG pathway ID and name	# of targets in pathway
ko01100 Metabolic pathways	24
ko05200 Pathways in cancer	12
ko00230 Purine metabolism	9
ko05166 HTLV-I infection	8
ko03013 RNA transport	7
ko04919 Thyroid hormone signaling pathway	7
ko04120 Ubiquitin mediated proteolysis	6
ko04390 Hippo signaling pathway	6
ko04020 Calcium signaling pathway	6
ko04658 Th1 and Th2 cell differentiation	6
ko04062 Chemokine signaling pathway	6
ko04914 Progesterone-mediated oocyte maturation	6
ko04727 GABAergic synapse	6
ko01110 Biosynthesis of secondary metabolites	5
ko04141 Protein processing in endoplasmic reticulum	5
ko04072 Phospholipase D signaling pathway	5
ko04024 cAMP signaling pathway	5
ko04022 cGMP-PKG signaling pathway	5
ko04512 ECM-receptor interaction	5
ko04810 Regulation of actin cytoskeleton	5
ko04114 Oocyte meiosis	5
ko04659 Th17 cell differentiation	5
ko04724 Glutamatergic synapse	5
ko05206 MicroRNAs in cancer	5
ko05203 Viral carcinogenesis	5
ko05012 Parkinson's disease	5
ko05032 Morphine addiction	5
ko05162 Measles	5
ko04015 Rap1 signaling pathway	4
ko04630 Jak-STAT signaling pathway	4
ko04151 PI3K-Akt signaling pathway	4
ko04150 mTOR signaling pathway	4
ko04080 Neuroactive ligand-receptor interaction	4
ko04142 Lysosome	4
ko04111 Cell cycle - yeast	4

ko04611 Platelet activation	4
ko04621 NOD-like receptor signaling pathway	4
ko04261 Adrenergic signaling in cardiomyocytes	4
ko04750 Inflammatory mediator regulation of TRP channels	4
ko05010 Alzheimer's disease	4
ko05016 Huntington's disease	4
ko05414 Dilated cardiomyopathy	4
ko04932 Non-alcoholic fatty liver disease NAFLD	4
ko04933 AGE-RAGE signaling pathway in diabetic complications	4
ko05161 Hepatitis B	4
ko01522 Endocrine resistance	4
ko00240 Pyrimidine metabolism	3
ko03015 mRNA surveillance pathway	3
ko03008 Ribosome biogenesis in eukaryotes	3
ko04014 Ras signaling pathway	3
ko04010 MAPK signaling pathway	3
ko04012 ErbB signaling pathway	3
ko04310 Wnt signaling pathway	3
ko04152 AMPK signaling pathway	3
ko04514 Cell adhesion molecules CAMs	3
ko04110 Cell cycle	3
ko04210 Apoptosis	3
ko04510 Focal adhesion	3
ko04530 Tight junction	3
ko04540 Gap junction	3
ko04640 Hematopoietic cell lineage	3
ko04922 Glucagon signaling pathway	3
ko04917 Prolactin signaling pathway	3
ko04921 Oxytocin signaling pathway	3
ko04918 Thyroid hormone synthesis	3
ko04916 Melanogenesis	3
ko04970 Salivary secretion	3
ko04971 Gastric acid secretion	3
ko04972 Pancreatic secretion	3
ko04976 Bile secretion	3
ko04725 Cholinergic synapse	3
ko04723 Retrograde endocannabinoid signaling	3
ko04740 Olfactory transduction	3
ko04360 Axon guidance	3
ko05205 Proteoglycans in cancer	3
ko05221 Acute myeloid leukemia	3
ko05412 Arrhythmogenic right ventricular cardiomyopathy ARVC	3

ko04931 Insulin resistance	3
ko05110 Vibrio cholerae infection	3
ko05152 Tuberculosis	3
ko01130 Biosynthesis of antibiotics	2
ko00052 Galactose metabolism	2
ko00562 Inositol phosphate metabolism	2
ko00190 Oxidative phosphorylation	2
ko00250 Alanine aspartate and glutamate metabolism	2
ko00330 Arginine and proline metabolism	2
ko00510 N-Glycan biosynthesis	2
ko00513 Various types of N-glycan biosynthesis	2
ko00601 Glycosphingolipid biosynthesis - lacto and neolacto series	2
ko00603 Glycosphingolipid biosynthesis - globo and isoglobo series	2
ko02010 ABC transporters	2
ko04070 Phosphatidylinositol signaling system	2
ko04071 Sphingolipid signaling pathway	2
ko04060 Cytokine-cytokine receptor interaction	2
ko04144 Endocytosis	2
ko04145 Phagosome	2
ko04146 Peroxisome	2
ko04660 T cell receptor signaling pathway	2
ko04662 B cell receptor signaling pathway	2
ko04670 Leukocyte transendothelial migration	2
ko04911 Insulin secretion	2
ko04910 Insulin signaling pathway	2
ko04923 Regulation of lipolysis in adipocytes	2
ko04912 GnRH signaling pathway	2
ko04913 Ovarian steroidogenesis	2
ko04915 Estrogen signaling pathway	2
ko04924 Renin secretion	2
ko04614 Renin-angiotensin system	2
ko04925 Aldosterone synthesis and secretion	2
ko04270 Vascular smooth muscle contraction	2
ko04974 Protein digestion and absorption	2
ko04726 Serotonergic synapse	2
ko04720 Long-term potentiation	2
ko04722 Neurotrophin signaling pathway	2
ko04742 Taste transduction	2
ko04320 Dorso-ventral axis formation	2
ko04211 Longevity regulating pathway	2
ko04713 Circadian entrainment	2
ko05231 Choline metabolism in cancer	2

ko05220 Chronic myeloid leukemia	2
ko05224 Breast cancer	2
ko05222 Small cell lung cancer	2
ko05322 Systemic lupus erythematosus	2
ko05034 Alcoholism	2
ko05410 Hypertrophic cardiomyopathy HCM	2
ko05120 Epithelial cell signaling in Helicobacter pylori infection	2
ko05164 Influenza A	2
ko05160 Hepatitis C	2
ko05168 Herpes simplex infection	2
ko05169 Epstein-Barr virus infection	2
ko05146 Amoebiasis	2
ko05145 Toxoplasmosis	2
ko05142 Chagas disease American trypanosomiasis	2
ko01120 Microbial metabolism in diverse environments	1
ko00051 Fructose and mannose metabolism	1
ko00500 Starch and sucrose metabolism	1
ko00520 Amino sugar and nucleotide sugar metabolism	1
ko00620 Pyruvate metabolism	1
ko00640 Propanoate metabolism	1
ko00061 Fatty acid biosynthesis	1
ko00561 Glycerolipid metabolism	1
ko00564 Glycerophospholipid metabolism	1
ko00590 Arachidonic acid metabolism	1
ko00310 Lysine degradation	1
ko00220 Arginine biosynthesis	1
ko00340 Histidine metabolism	1
ko00410 beta-Alanine metabolism	1
ko00471 D-Glutamine and D-glutamate metabolism	1
ko00515 Mannose type O-glycan biosynthesis	1
ko00514 Other types of O-glycan biosynthesis	1
ko00532 Glycosaminoglycan biosynthesis - chondroitin sulfate / dermatan sulfate	1
ko00534 Glycosaminoglycan biosynthesis - heparan sulfate / heparin	1
ko00533 Glycosaminoglycan biosynthesis - keratan sulfate	1
ko00531 Glycosaminoglycan degradation	1
ko00511 Other glycan degradation	1
ko00760 Nicotinate and nicotinamide metabolism	1
ko00232 Caffeine metabolism	1
ko00254 Aflatoxin biosynthesis	1
ko00983 Drug metabolism - other enzymes	1
ko03020 RNA polymerase	1
ko03022 Basal transcription factors	1

ko03040 Spliceosome	1
ko03060 Protein export	1
ko03410 Base excision repair	1
ko03420 Nucleotide excision repair	1
ko03460 Fanconi anemia pathway	1
ko04330 Notch signaling pathway	1
ko04350 TGF-beta signaling pathway	1
ko04370 VEGF signaling pathway	1
ko04064 NF-kappa B signaling pathway	1
ko04668 TNF signaling pathway	1
ko04066 HIF-1 signaling pathway	1
ko04068 FoxO signaling pathway	1
ko04140 Autophagy	1
ko04115 p53 signaling pathway	1
ko04520 Adherens junction	1
ko04550 Signaling pathways regulating pluripotency of stem cells	1
ko04620 Toll-like receptor signaling pathway	1
ko04622 RIG-I-like receptor signaling pathway	1
ko04623 Cytosolic DNA-sensing pathway	1
ko04650 Natural killer cell mediated cytotoxicity	1
ko04664 Fc epsilon RI signaling pathway	1
ko04666 Fc gamma R-mediated phagocytosis	1
ko04920 Adipocytokine signaling pathway	1
ko03320 PPAR signaling pathway	1
ko04973 Carbohydrate digestion and absorption	1
ko04978 Mineral absorption	1
ko04960 Aldosterone-regulated sodium reabsorption	1
ko04964 Proximal tubule bicarbonate reclamation	1
ko04966 Collecting duct acid secretion	1
ko04728 Dopaminergic synapse	1
ko04380 Osteoclast differentiation	1
ko05230 Central carbon metabolism in cancer	1
ko05202 Transcriptional misregulation in cancer	1
ko05212 Pancreatic cancer	1
ko05214 Glioma	1
ko05217 Basal cell carcinoma	1
ko05219 Bladder cancer	1
ko05213 Endometrial cancer	1
ko05223 Non-small cell lung cancer	1
ko05320 Autoimmune thyroid disease	1
ko05321 Inflammatory bowel disease IBD	1
ko05014 Amyotrophic lateral sclerosis ALS	1

ko05030 Cocaine addiction	1
ko05033 Nicotine addiction	1
ko05100 Bacterial invasion of epithelial cells	1
ko05140 Leishmaniasis	1
ko05143 African trypanosomiasis	1
ko01521 EGFR tyrosine kinase inhibitor resistance	1
ko01523 Antifolate resistance	1

Supplementary Table S3. Results of the GO terms annotation for predicted plant miRNAs targets. The GO terms (“Biological Process” category) annotation was performed by the Blast2GO software. The human targets predicted for 5 evaluated plant miRNAs were used.

Target Association Name	Annotated GO terms
ZNF550	GO:0005634, GO:0003677, GO:0005515, GO:0046872, GO:0006351, GO:0006355
LIME1	GO:0005615, GO:0016021, GO:0019815, GO:0019901, GO:0002250, GO:0006357, GO:0014066, GO:0042345, GO:0043405, GO:0050852, GO:0050853, GO:0051279
ZNF596	GO:0005634, GO:0003677, GO:0046872, GO:0006351, GO:0006355
SP4	GO:0005654, GO:0005737, GO:0015630, GO:0045171, GO:0000981, GO:0003677, GO:0003713, GO:0005515, GO:0046872, GO:0006351, GO:0006357
APCDD1L	GO:0016021
YPEL3	GO:0005730, GO:0046872, GO:0006915, GO:2000774
MAS1	GO:0005622, GO:0005887, GO:0009986, GO:0004945, GO:0005515, GO:0017046, GO:0001933, GO:0007250, GO:0007283, GO:0008283, GO:0008284, GO:0008584, GO:0009653, GO:0014823, GO:0021766, GO:0034698, GO:0038166, GO:0042493, GO:0045740, GO:0050727, GO:0060732, GO:0070528
GTF2H3	GO:0000439, GO:0005675, GO:0003684, GO:0003700, GO:0008094, GO:0008135, GO:0008353, GO:0046872, GO:0047485, GO:0000717, GO:0006283, GO:0006293, GO:0006294, GO:0006295, GO:0006296, GO:0006361, GO:0006362, GO:0006363, GO:0006367, GO:0006368, GO:0006370, GO:0006412, GO:0070816, GO:0070911
CD22	GO:0005886, GO:0016021, GO:0070062, GO:0005515, GO:0030246, GO:0007155
SPATA13	GO:0005654, GO:0005737, GO:0030027, GO:0030175, GO:0032587, GO:0005515, GO:0030676, GO:0016477, GO:0030032, GO:0030334, GO:0035023, GO:0043547, GO:0046847
ZNF224	GO:0017053, GO:0031965, GO:0003677, GO:0003700, GO:0005515, GO:0046872, GO:0006351, GO:0045892
CLCN7	GO:0005765, GO:0016021, GO:0031410, GO:0005247, GO:0005524, GO:0015297, GO:0009268, GO:1902476, GO:1903959
SLC12A3	GO:0005829, GO:0005887, GO:0016324, GO:0070062, GO:0015378, GO:0019899, GO:0035725, GO:1902476
SERINC2	GO:0016021, GO:0070062, GO:0015194, GO:0006658, GO:0006665, GO:0015825, GO:1904219, GO:1904222
TSPYL6	GO:0005634, GO:0006334
NRXN1	GO:0005783, GO:0005887, GO:0009986, GO:0030054, GO:0031965, GO:0031982, GO:0042734, GO:0043025, GO:0043234, GO:0004872, GO:0005246, GO:0005509, GO:0033130, GO:0050839, GO:0097109, GO:0007158, GO:0007269, GO:0007411, GO:0030534, GO:0035176, GO:0042297, GO:0050885, GO:0051965, GO:0051968, GO:0060134, GO:0061178, GO:0071625, GO:0090129, GO:0097116, GO:0097118, GO:0097119, GO:2000463, GO:2000821
TCTN1	GO:0005615, GO:0005829, GO:0005856, GO:0016020, GO:0036038, GO:0001701, GO:0001841, GO:0008589, GO:0021523, GO:0021537, GO:0021904, GO:0021956, GO:0060271
SLC26A1	GO:0005887, GO:0005254, GO:0008271, GO:0015106, GO:0015301, GO:0019531, GO:0015701, GO:0019532, GO:0042391, GO:0050428, GO:0051453,

	GO:1902358, GO:1902476
BSN	GO:0005634, GO:0005802, GO:0009986, GO:0014069, GO:0030054, GO:0030424, GO:0030425, GO:0043025, GO:0044306, GO:0048788, GO:0060077, GO:0097470, GO:0046872, GO:0007268, GO:0007416
HMX1	GO:0005634, GO:0000977, GO:0001227, GO:0000122, GO:0006351, GO:0007275
ASTE1	GO:0004518, GO:0005515, GO:0006281, GO:0090305
KAT7	GO:0000123, GO:0005730, GO:0005737, GO:0003700, GO:0004402, GO:0005515, GO:0008270, GO:0006260, GO:0006351, GO:0006355, GO:0043966, GO:0043981, GO:0043982, GO:0043983, GO:0043984, GO:1900182
AK9	GO:0005654, GO:0005829, GO:0031965, GO:0004550, GO:0005524, GO:0019206, GO:0050145, GO:0006174, GO:0006186, GO:0006756, GO:0006757, GO:0015949, GO:0061508, GO:0061565, GO:0061566, GO:0061567, GO:0061568, GO:0061569, GO:0061570, GO:0061571
SAT1	GO:0005829, GO:0004145, GO:0005515, GO:0001525, GO:0006596, GO:0009447, GO:0042127
AP3M2	GO:0005794, GO:0030131, GO:0030659, GO:1904115, GO:0006886, GO:0048490
FBXO17	GO:0019005, GO:0001948, GO:0005515
LMCD1	GO:0005615, GO:0005654, GO:0005737, GO:0031012, GO:0003714, GO:0008270, GO:0000122, GO:0002230, GO:0006351, GO:0010611, GO:0044267, GO:0070886, GO:0098779, GO:0098792
CLCNKA	GO:0005887, GO:0034707, GO:0005247, GO:0046872, GO:0007588, GO:1902476, GO:1903959
NRXN1	GO:0005783, GO:0005887, GO:0009986, GO:0030054, GO:0030139, GO:0031965, GO:0042734, GO:0043025, GO:0043234, GO:0044295, GO:0004888, GO:0005246, GO:0005509, GO:0033130, GO:0048306, GO:0050839, GO:0097109, GO:0001525, GO:0007157, GO:0007158, GO:0007269, GO:0007411, GO:0016339, GO:0021707, GO:0023041, GO:0030534, GO:0035176, GO:0042297, GO:0045184, GO:0050885, GO:0051490, GO:0051965, GO:0051968, GO:0060134, GO:0061178, GO:0071625, GO:0090004, GO:0090126, GO:0090129, GO:0097091, GO:0097105, GO:0097112, GO:0097114, GO:0097116, GO:0097117, GO:0097118, GO:0097119, GO:0097120, GO:2000310, GO:2000311, GO:2000463, GO:2000821
XKRX	GO:0005886, GO:0016021
BNC2	GO:0005634, GO:0005737, GO:0005886, GO:0003677, GO:0046872, GO:0003416, GO:0006351, GO:0006355, GO:0043586, GO:0060021, GO:0060485
LAIR1	GO:0005886, GO:0016021, GO:0070062, GO:0005515, GO:0002250, GO:0050776, GO:0002376
GREB1	GO:0016021, GO:0070062
GP6	GO:0005887, GO:0009986, GO:0070062, GO:0097197, GO:0004888, GO:0005518, GO:0007167, GO:0030168, GO:0050900
FAM13B	GO:0005829, GO:0005096, GO:0002230, GO:0007165, GO:0043547, GO:0051056, GO:0098779, GO:0098792
SLC2A5	GO:0005887, GO:0016324, GO:0042383, GO:0070062, GO:0005353, GO:0005355, GO:0070061, GO:0003044, GO:0005975, GO:0071332, GO:1904659, GO:1990539
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MS4A4A	GO:0016021
HTT	GO:0005654, GO:0005770, GO:0005776, GO:0005783, GO:0005794, GO:0005814, GO:0005829, GO:0014069, GO:0030136, GO:0030424, GO:0030425,

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LAMA4	GO:0005605, GO:0070062, GO:0005102, GO:0005201, GO:0001568, GO:0007155, GO:0030155, GO:0030198, GO:0030334, GO:0045995, GO:0050873
TRPC4AP	GO:0005886, GO:0031464, GO:0005262, GO:0019902, GO:0006511, GO:0016567, GO:0070588
ZNF765	GO:0005634, GO:0003677, GO:0003700, GO:0005515, GO:0046872, GO:0006351, GO:0006355
ATP13A3	GO:0005887, GO:0043231, GO:0005524, GO:0019829, GO:0046872, GO:0006874, GO:0098655
GABRE	GO:0005887, GO:0030054, GO:0034707, GO:0045211, GO:1902711, GO:0004890, GO:0005230, GO:0005254, GO:0007214, GO:1902476
NUP210L	GO:0005643, GO:0016021, GO:0007286, GO:0060009
CMIP	GO:0005634, GO:0005737, GO:0005515
CBX7	GO:0000790, GO:0000792, GO:0005654, GO:0005737, GO:0035102, GO:0003682, GO:0003727, GO:0035064, GO:0000122, GO:0006351, GO:0042493, GO:0048733
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IL9R	GO:0005615, GO:0005887, GO:0004919, GO:0008283, GO:0038113, GO:1903955
TLL2	GO:0005576, GO:0004222, GO:0004252, GO:0005509, GO:0008270, GO:0006508, GO:0007275, GO:0022617, GO:0030154, GO:0048632
TRIM61	GO:0005622, GO:0008270
LGALS3	GO:0001772, GO:0005615, GO:0005681, GO:0005743, GO:0031012, GO:0070062, GO:0019863, GO:0030246, GO:0042056, GO:0043236, GO:0044822, GO:0002548, GO:0006397, GO:0008380, GO:0030593, GO:0030855, GO:0042129, GO:0045087, GO:0045806, GO:0048245, GO:0048246, GO:0050860, GO:0050918, GO:0070232, GO:0071677, GO:0090280, GO:1902041, GO:2000521, GO:2001189, GO:2001200, GO:2001237
ABTB1	GO:0005730, GO:0005737, GO:0005886, GO:0003746, GO:0005515, GO:0006414
LDLRAD1	GO:0016021, GO:0005515
NEDD4L	GO:0005654, GO:0005829, GO:0005886, GO:0070062, GO:0004842, GO:0016874, GO:0019870, GO:0019871, GO:0044325, GO:0000122, GO:0003254, GO:0006513, GO:0006814, GO:0006883, GO:0007588, GO:0010038, GO:0019058, GO:0030104, GO:0034220, GO:0042787, GO:0043161, GO:0045732, GO:0060306, GO:0070936, GO:0086005, GO:1901017, GO:1903861, GO:2000009, GO:2000650, GO:2001288
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DPYSL3	GO:0005615, GO:0005829, GO:0030027, GO:0030426, GO:0031941, GO:0044297, GO:0070382, GO:0016810, GO:0017124, GO:0031005, GO:0035374, GO:0010976, GO:0010977, GO:0030336, GO:0048666, GO:0048678, GO:0051017, GO:0051260, GO:0051491, GO:0051764, GO:0071345
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GHSR	GO:0005886, GO:0009986, GO:0016021, GO:0043005, GO:0045121, GO:0001616, GO:0016520, GO:0017046, GO:0007186, GO:0008154, GO:0008343, GO:0009755, GO:0030252, GO:0032094, GO:0032100, GO:0032691, GO:0032869, GO:0040018, GO:0042536, GO:0043134, GO:0043568, GO:0045409, GO:0045923, GO:0046676, GO:0046697, GO:0050728, GO:0051963
TANK	GO:0005829, GO:0031625, GO:0046872, GO:0007249, GO:0035666
FANCI	GO:0005654, GO:0005737, GO:0016020, GO:0003677, GO:0070182, GO:0007095, GO:0031398, GO:0036297
CMPK1	GO:0005634, GO:0005829, GO:0070062, GO:0004127, GO:0004550, GO:0004849, GO:0005524, GO:0009041, GO:0050145, GO:0006165, GO:0006207, GO:0006222, GO:0009142, GO:0015949, GO:0046940
PLCG1	GO:0001726, GO:0005829, GO:0005886, GO:0005911, GO:0008180, GO:0030027, GO:0004435, GO:0005057, GO:0005168, GO:0005509, GO:0030971, GO:0035254, GO:0000186, GO:0001701, GO:0007173, GO:0009395, GO:0016032, GO:0019722, GO:0038095, GO:0038096, GO:0043536, GO:0043647, GO:0045766, GO:0050852, GO:0050900, GO:0051281, GO:0071364
SNX13	GO:0016021, GO:0031901, GO:0032266, GO:0006886, GO:0009968, GO:0043547
TBC1D10B	GO:0005829, GO:0005886, GO:0012505, GO:0005096, GO:0017137, GO:0006886, GO:0031338, GO:0042147, GO:0090630, GO:1902017
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CXCR2	GO:0005887, GO:0009986, GO:0042629, GO:0004918, GO:0019959, GO:0002407, GO:0006954, GO:0006968, GO:0007200, GO:0008284, GO:0030593, GO:0031623, GO:0038112, GO:0042119, GO:0070098
MAPKAP1	GO:0005654, GO:0005794, GO:0005829, GO:0005886, GO:0016023, GO:0031932, GO:0005546, GO:0005547, GO:0016301, GO:0017016, GO:0019901, GO:0043325, GO:0070300, GO:0080025, GO:0016310, GO:0021762, GO:0031295, GO:0046580, GO:0048015
TMEM91	GO:0016021, GO:0002244, GO:0009607
WDR13	GO:0005654, GO:0005737
TIAF1	GO:0005634, GO:0006915, GO:0007249, GO:0043066
WDR3	GO:0005654, GO:0031965, GO:0032040, GO:0034388, GO:0030515, GO:0044822, GO:0000462
DNASE1	GO:0005635, GO:0070062, GO:0003779, GO:0004530, GO:0006308, GO:0006915, GO:0090305
PHACTR2	GO:0005886, GO:0031092, GO:0003779, GO:0004864, GO:0002576, GO:0043086
C22orf29	GO:0005739, GO:0005515, GO:0051881, GO:0097345
PFKFB2	GO:0005829, GO:0003873, GO:0004331, GO:0005524, GO:0019901, GO:0006000, GO:0006003, GO:0006089, GO:0009749, GO:0016311, GO:0032024, GO:0033133, GO:0046835, GO:0061621
FAM19A2	GO:0005737
LRRN4	GO:0005887, GO:0070062, GO:0007616, GO:0008542

CEP250	GO:0005814, GO:0005829, GO:0005929, GO:0043234, GO:0048471, GO:0070062, GO:0008022, GO:0019901, GO:0019904, GO:0000086, GO:0010457, GO:0030997, GO:0033365, GO:0035058
GABARAP	GO:0000139, GO:0000421, GO:0005764, GO:0005790, GO:0005829, GO:0005874, GO:0005875, GO:0005886, GO:0005930, GO:0015629, GO:0031410, GO:0044297, GO:0048471, GO:0097225, GO:0008017, GO:0016791, GO:0031625, GO:0048487, GO:0050811, GO:0000045, GO:0000226, GO:0000422, GO:0006605, GO:0006995, GO:0007268, GO:0008625, GO:0016311
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MARCH7	GO:0008270, GO:0016874, GO:0002643, GO:0016567, GO:0042130
DOCK6	GO:0005829, GO:0048471, GO:0005085, GO:0007264, GO:0007596, GO:0043547
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