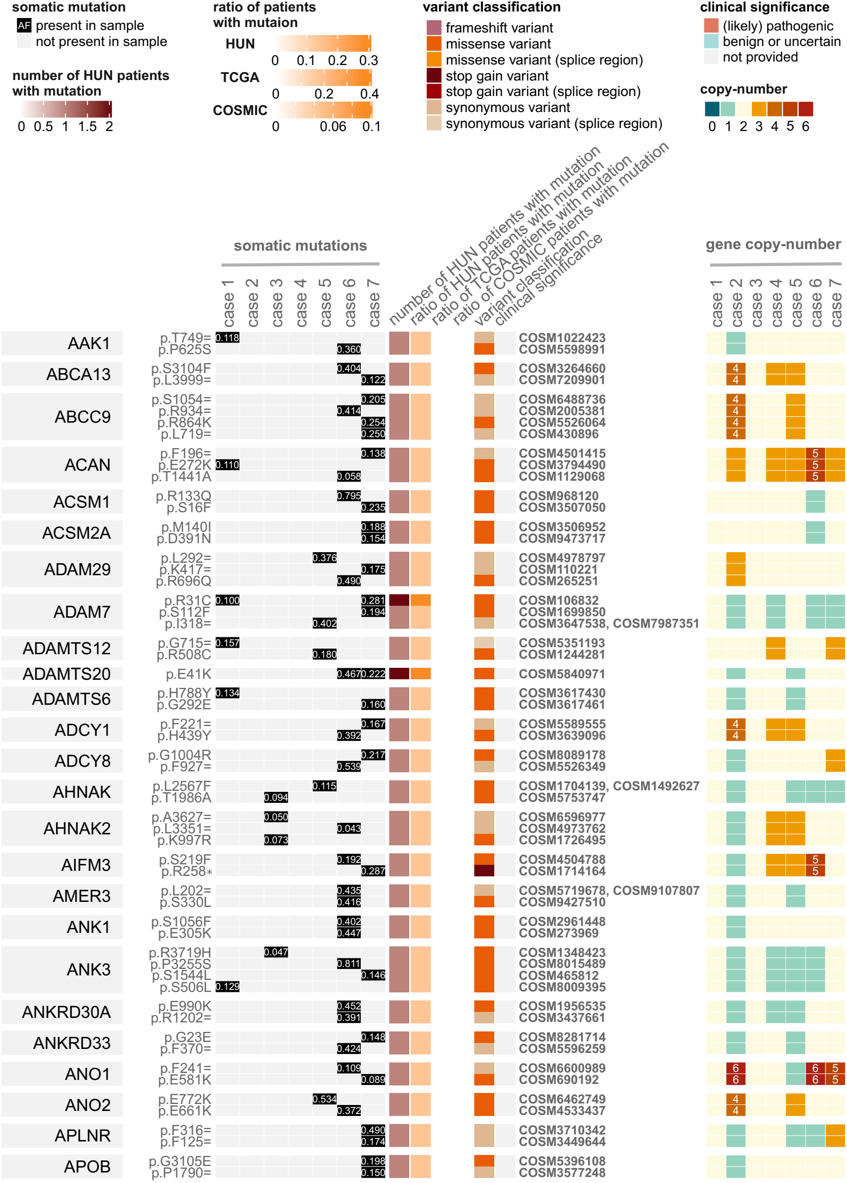

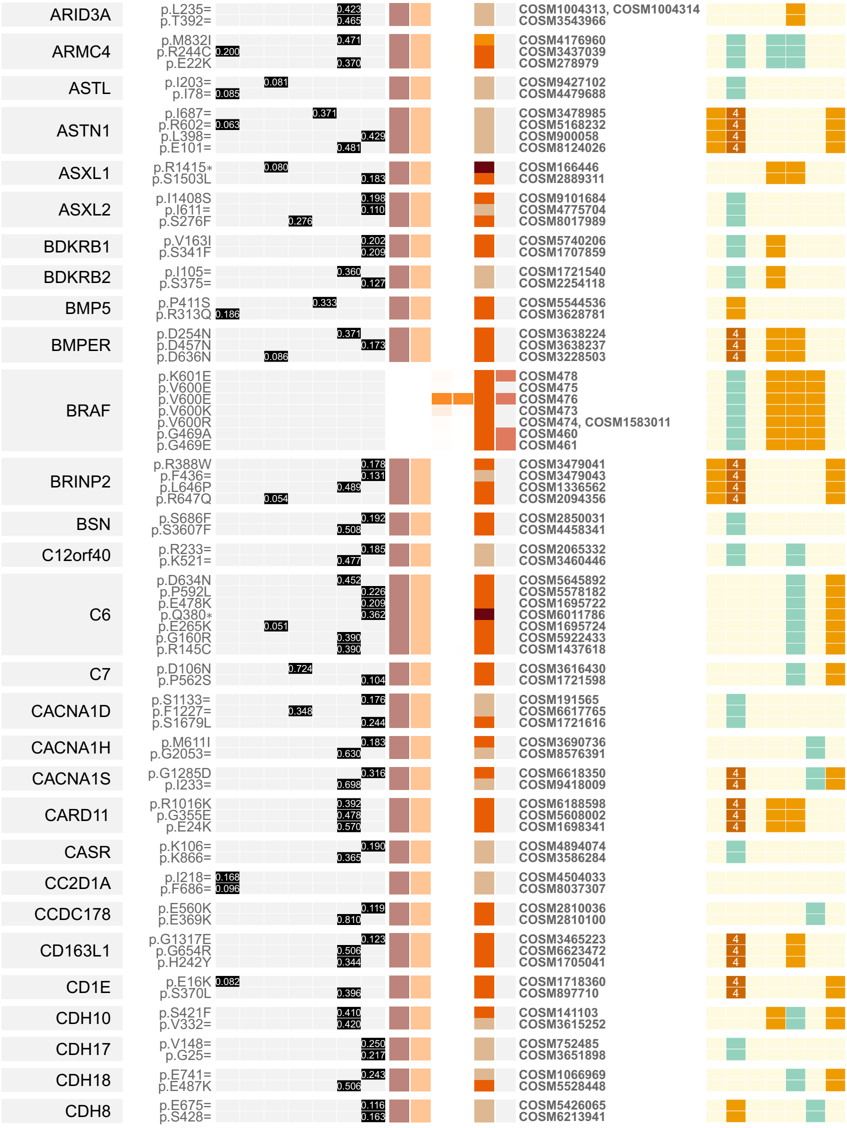

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	p.E22K	0.370	COSM278979
ASTL	p.I203=	0.081	COSM9427102
	p.I78=	0.085	COSM4479688
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	p.R602=	0.063	COSM5168232
	p.L398=	0.429	COSM900058
	p.E101=	0.481	COSM8124026
ASXL1	p.R1415*	0.080	COSM166446
	p.S1503L	0.183	COSM2889311
ASXL2	p.I1408S	0.198	COSM9101684
	p.I611=	0.110	COSM4775704
	p.S276F	0.276	COSM8017989
BDKRB1	p.V163I	0.202	COSM5740206
	p.S341F	0.209	COSM1707859
BDKRB2	p.I105=	0.360	COSM1721540
	p.S375=	0.127	COSM2254118
BMP5	p.P411S	0.333	COSM5544536
	p.R313Q	0.186	COSM3628781
BMPER	p.D254N	0.371	COSM3638224
	p.D457N	0.173	COSM3638237
	p.D636N	0.086	COSM3228503
BRAF	p.K601E		COSM478
	p.V600E		COSM475
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	p.V600R		COSM474, COSM1583011
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BRINP2	p.R388W	0.178	COSM3479041
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	p.S3607F	0.508	COSM4458341
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	p.K521=	0.477	COSM3460446
C6	p.D634N	0.452	COSM5645892
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	p.P562S	0.104	COSM1721598
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	p.F1227=	0.348	COSM6617765
	p.S1679L	0.244	COSM1721616
CACNA1H	p.M611I	0.183	COSM3690736
	p.G2053=	0.630	COSM8576391
CACNA1S	p.G1285D	0.316	COSM6618350
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CARD11	p.R1016K	0.392	COSM6188598
	p.G355E	0.478	COSM5608002
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CASR	p.K106=	0.190	COSM4894074
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CC2D1A	p.I218=	0.168	COSM4504033
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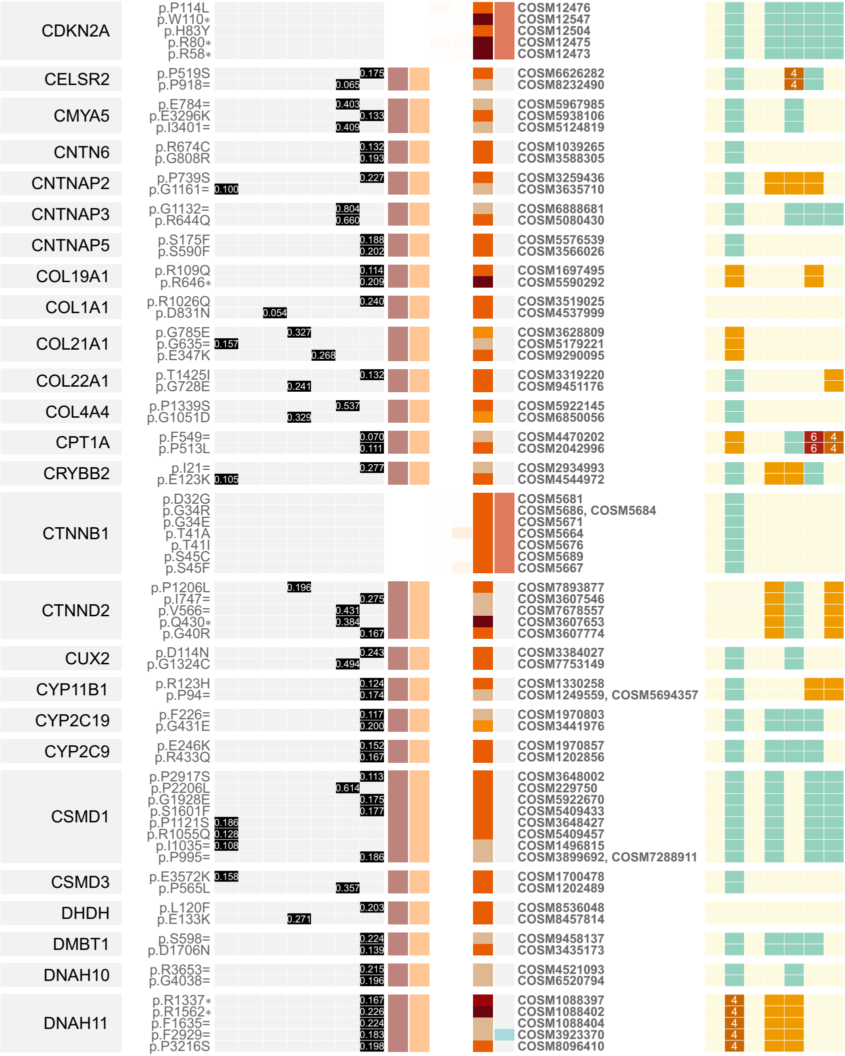

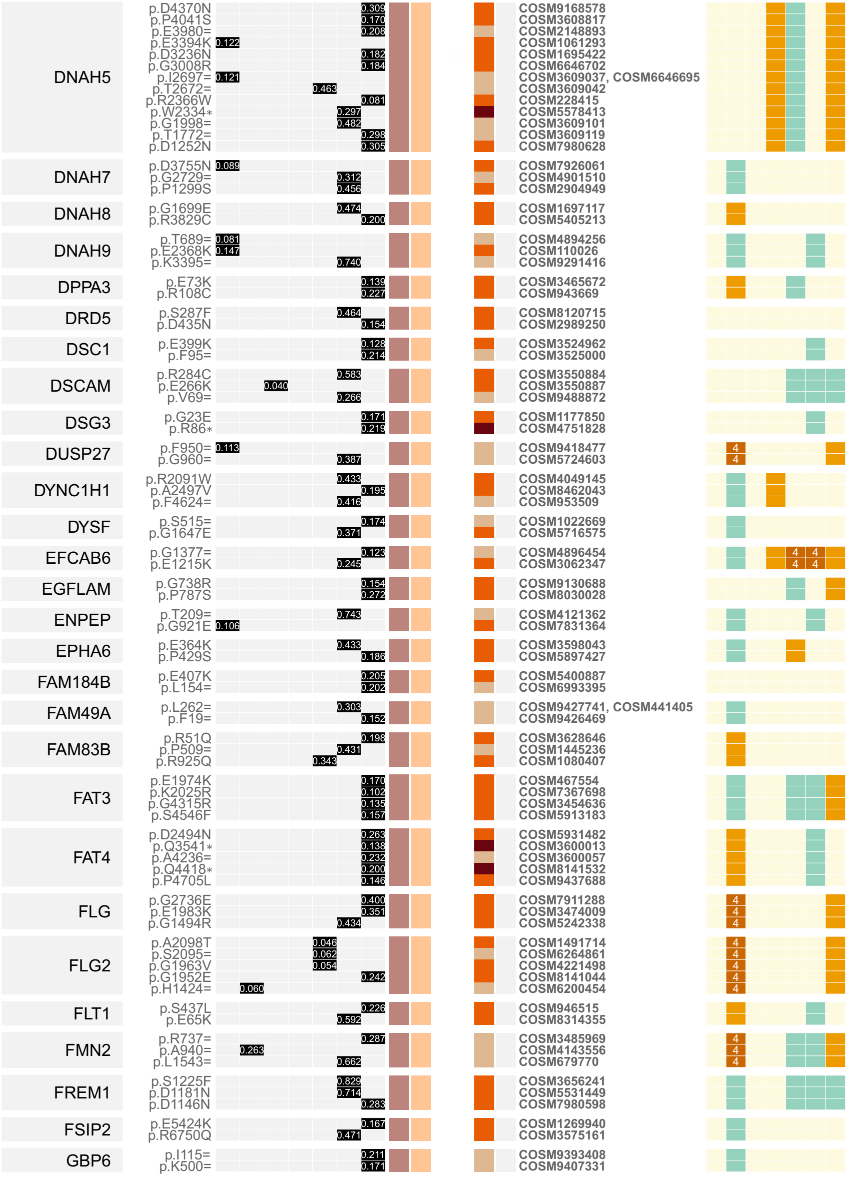

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	p.E3394K	0.122							🟧	COSM1061293				🟧	🟩		🟧
	p.D3236N							0.182	🟧	COSM1695422				🟧	🟩		🟧
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	p.W2334*						0.297		⬛	COSM5578413				🟧	🟩		🟧
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	p.D1252N							0.305	🟧	COSM7980628				🟧	🟩		🟧
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	p.P1299S						0.456		🟧	COSM2904949		🟩					
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	p.E2368K	0.147							🟧	COSM110026		🟩				🟩	
	p.K3395=						0.740		🟫	COSM9291416		🟩				🟩	
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	p.R108C							0.227	🟧	COSM943669		🟧			🟩		
DRD5	p.S287F						0.464		🟧	COSM8120715							
	p.D435N							0.154	🟧	COSM2989250							
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DSCAM	p.R284C						0.583		🟧	COSM3550884					🟩	🟩	🟩
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	p.V69=						0.266		🟫	COSM9488872					🟩	🟩	🟩
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	p.R86*							0.219	⬛	COSM4751828						🟩	
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DYNC1H1	p.R2091W						0.433		🟧	COSM4049145		🟩		🟧			
	p.A2497V							0.195	🟧	COSM8462043		🟩		🟧			
	p.F4624=						0.416		🟫	COSM953509		🟩		🟧			
DYSF	p.S515=							0.174	🟫	COSM1022669		🟩					
	p.G1647E						0.371		🟧	COSM5716575		🟩					
EFCAB6	p.G1377=							0.123	🟫	COSM4896454		🟩		🟧	4	4	🟧
	p.E1215K						0.245		🟧	COSM3062347		🟩		🟧	4	4	🟧
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	p.P787S							0.272	🟧	COSM8030028					🟩		🟧
ENPEP	p.T209=						0.743		🟫	COSM4121362		🟩				🟩	
	p.G921E	0.106							🟧	COSM7831364		🟩				🟩	
EPHA6	p.E364K						0.433		🟧	COSM3598043		🟩			🟧		
	p.P429S							0.186	🟧	COSM5897427		🟩			🟧		
FAM184B	p.E407K							0.205	🟧	COSM5400887							
	p.L154=							0.202	🟫	COSM6993395							
FAM49A	p.L262=						0.303		🟫	COSM9427741, COSM441405		🟩					
	p.F19=							0.152	🟫	COSM9426469		🟩					
FAM83B	p.R51Q							0.198	🟧	COSM3628646		🟧					
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	p.R925Q					0.343			🟧	COSM1080407		🟧					
FAT3	p.E1974K							0.170	🟧	COSM467554		🟩			🟩	🟩	🟧
	p.K2025R							0.102	🟧	COSM7367698		🟩			🟩	🟩	🟧
	p.G4315R							0.135	🟧	COSM3454636		🟩			🟩	🟩	🟧
	p.S4546F							0.157	🟧	COSM5913183		🟩			🟩	🟩	🟧
FAT4	p.D2494N							0.263	🟧	COSM5931482		🟧				🟩	
	p.Q3541*							0.138	⬛	COSM3600013		🟧				🟩	
	p.A4236=							0.232	🟫	COSM3600057		🟧				🟩	
	p.Q4418*							0.200	⬛	COSM8141532		🟧				🟩	
	p.P4705L							0.146	🟧	COSM9437688		🟧				🟩	
FLG	p.G2736E							0.400	🟧	COSM7911288		4					🟧
	p.E1983K							0.351	🟧	COSM3474009		4					🟧
	p.G1494R						0.434		🟧	COSM5242338		4					🟧
FLG2	p.A2098T					0.046			🟧	COSM1491714		4					🟧
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	p.G1963V					0.054			🟧	COSM4221498		4					🟧
	p.G1952E							0.242	🟧	COSM8141044		4					🟧
	p.H1424=		0.060						🟫	COSM6200454		4					🟧
FLT1	p.S437L							0.226	🟧	COSM946515		🟧				🟩	
	p.E65K						0.592		🟧	COSM8314355		🟧				🟩	
FMN2	p.R737=							0.287	🟫	COSM3485969		4			🟩	🟩	🟧
	p.A940=		0.263						🟫	COSM4143556		4			🟩	🟩	🟧
	p.L1543=						0.662		🟫	COSM679770		4			🟩	🟩	🟧
FREM1	p.S1225F						0.829		🟧	COSM3656241		🟩			🟩	🟩	🟩
	p.D1181N						0.714		🟧	COSM5531449		🟩			🟩	🟩	🟩
	p.D1146N							0.283	🟧	COSM7980598		🟩			🟩	🟩	🟩
FSIP2	p.E5424K							0.167	🟧	COSM1269940		🟩					
	p.R6750Q						0.471		🟧	COSM3575161		🟩					
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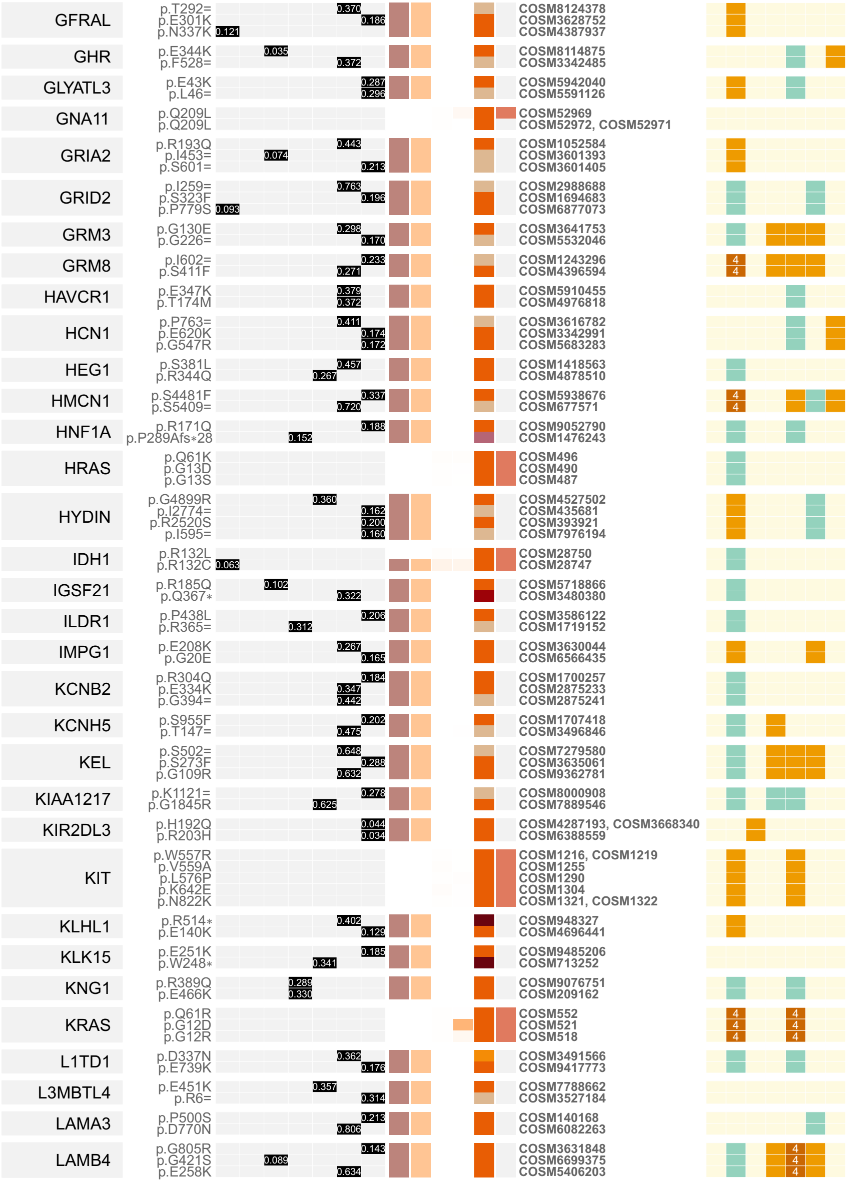

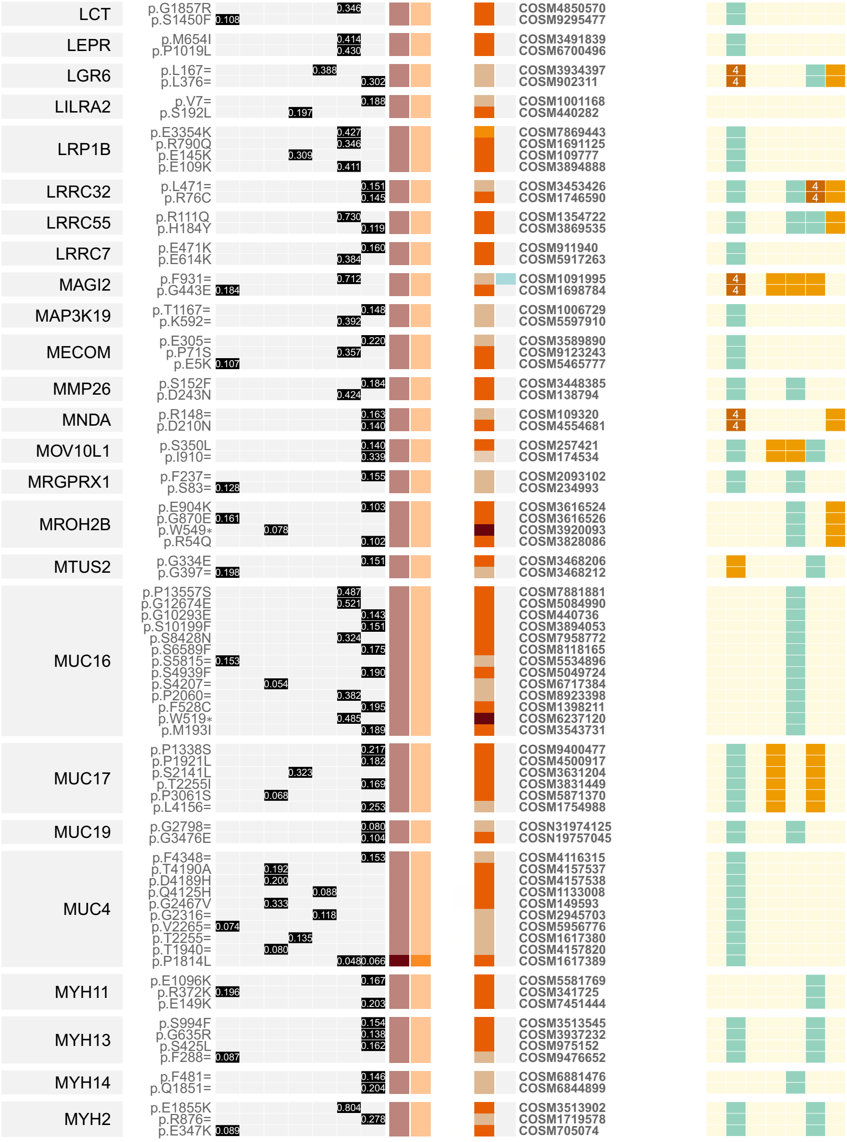

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LEPR	p.M654I						0.414		COSM3491839
	p.P1019L						0.430		COSM6700496
LGR6	p.L167=					0.388			COSM3934397
	p.L376=							0.302	COSM902311
LILRA2	p.V7=							0.188	COSM1001168
	p.S192L				0.197				COSM440282
LRP1B	p.E3354K						0.427		COSM7869443
	p.R790Q						0.346		COSM1691125
	p.E145K				0.309				COSM109777
	p.E109K						0.411		COSM3894888
LRRC32	p.L471=							0.151	COSM3453426
	p.R76C							0.145	COSM1746590
LRRC55	p.R111Q						0.730		COSM1354722
	p.H184Y							0.119	COSM3869535
LRRC7	p.E471K							0.160	COSM911940
	p.E614K						0.384		COSM5917263
MAGI2	p.F931=						0.712		COSM1091995
	p.G443E	0.184							COSM1698784
MAP3K19	p.T1167=							0.148	COSM1006729
	p.K592=						0.392		COSM5597910
MECOM	p.E305=							0.220	COSM3589890
	p.P71S						0.357		COSM9123243
	p.E5K	0.107							COSM5465777
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	p.D243N						0.424		COSM138794
MNDA	p.R148=							0.163	COSM109320
	p.D210N							0.140	COSM4554681
MOV10L1	p.S350L							0.140	COSM257421
	p.I910=							0.339	COSM174534
MRGPRX1	p.F237=							0.155	COSM2093102
	p.S83=	0.128							COSM234993
MROH2B	p.E904K							0.103	COSM3616524
	p.G870E	0.161							COSM3616526
	p.W549*			0.078					COSM3920093
	p.R54Q							0.102	COSM3828086
MTUS2	p.G334E							0.151	COSM3468206
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	p.G12674E						0.521		COSM5084990
	p.G10293E							0.143	COSM440736
	p.S10199F							0.151	COSM3894053
	p.S8428N						0.324		COSM7958772
	p.S6589F							0.175	COSM8118165
	p.S5815=	0.153							COSM5534896
	p.S4939F							0.190	COSM5049724
	p.S4207=			0.054					COSM6717384
	p.P2060=						0.382		COSM8923398
	p.F528C							0.195	COSM1398211
	p.W519*						0.485		COSM6237120
	p.M193I							0.189	COSM3543731
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	p.S2141L				0.323				COSM3631204
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	p.P3061S			0.068					COSM5871370
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	p.V2265=	0.074							COSM5956776
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	p.P1814L						0.048	0.066	COSM1617389
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	p.R372K	0.196							COSM341725
	p.E149K							0.203	COSM7451444
MYH13	p.S994F							0.154	COSM3513545
	p.G635R							0.138	COSM3937232
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MYH14	p.F481=							0.146	COSM6881476
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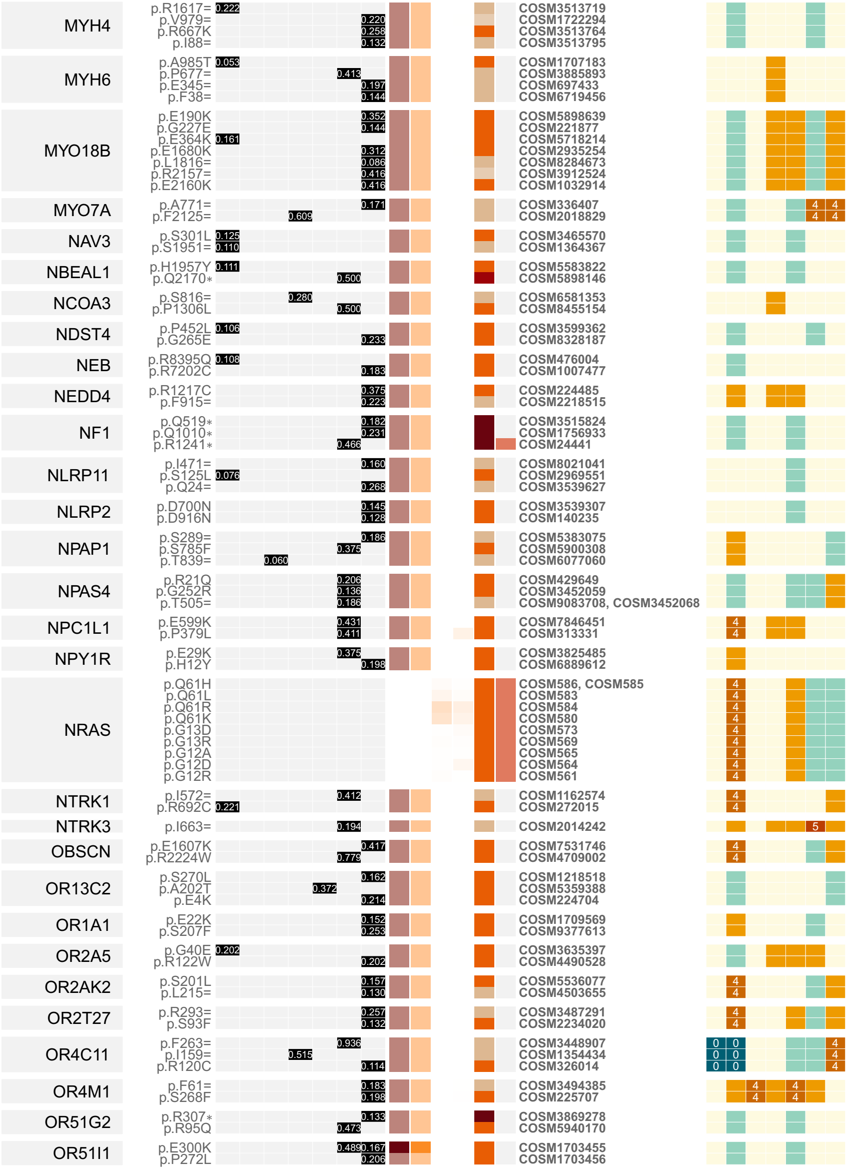

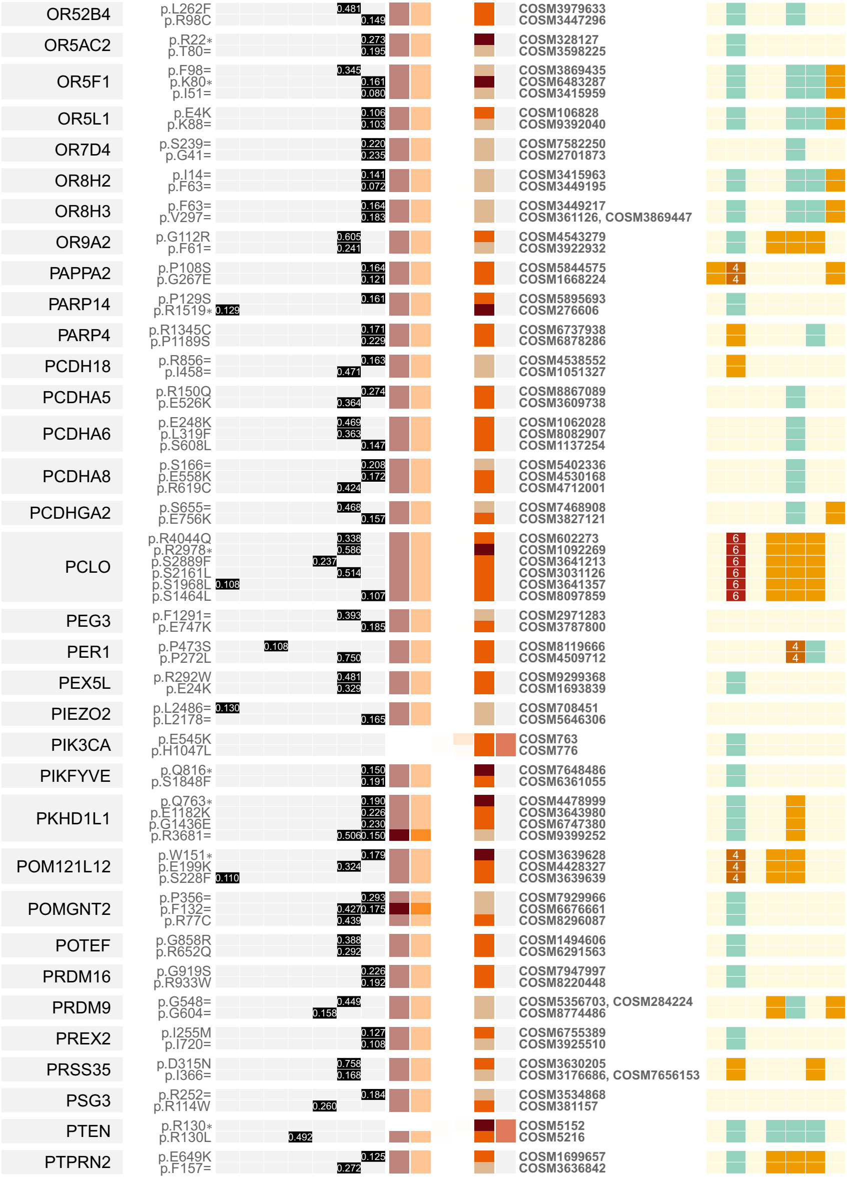

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	p.T80=	0.195	COSM3598225	
OR5F1	p.F98=	0.345	COSM3869435	
	p.K80*	0.161	COSM6483287	
	p.I51=	0.080	COSM3415959	
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	p.K88=	0.103	COSM9392040	
OR7D4	p.S239=	0.220	COSM7582250	
	p.G41=	0.235	COSM2701873	
OR8H2	p.I14=	0.141	COSM3415963	
	p.F63=	0.072	COSM3449195	
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	p.V297=	0.183	COSM361126, COSM3869447	
OR9A2	p.G112R	0.605	COSM4543279	
	p.F61=	0.241	COSM3922932	
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	p.G267E	0.121	COSM1668224	4
PARP14	p.P129S	0.161	COSM5895693	
	p.R1519*	0.129	COSM276606	
PARP4	p.R1345C	0.171	COSM6737938	
	p.P1189S	0.229	COSM6878286	
PCDH18	p.R856=	0.163	COSM4538552	
	p.I458=	0.471	COSM1051327	
PCDHA5	p.R150Q	0.274	COSM8867089	
	p.E526K	0.364	COSM3609738	
PCDHA6	p.E248K	0.469	COSM1062028	
	p.L319F	0.363	COSM8082907	
	p.S608L	0.147	COSM1137254	
PCDHA8	p.S166=	0.208	COSM5402336	
	p.E558K	0.172	COSM4530168	
	p.R619C	0.424	COSM4712001	
PCDHGA2	p.S655=	0.468	COSM7468908	
	p.E756K	0.157	COSM3827121	
PCLO	p.R4044Q	0.338	COSM602273	6
	p.R2978*	0.586	COSM1092269	6
	p.S2889F	0.237	COSM3641213	6
	p.S2161L	0.514	COSM3031126	6
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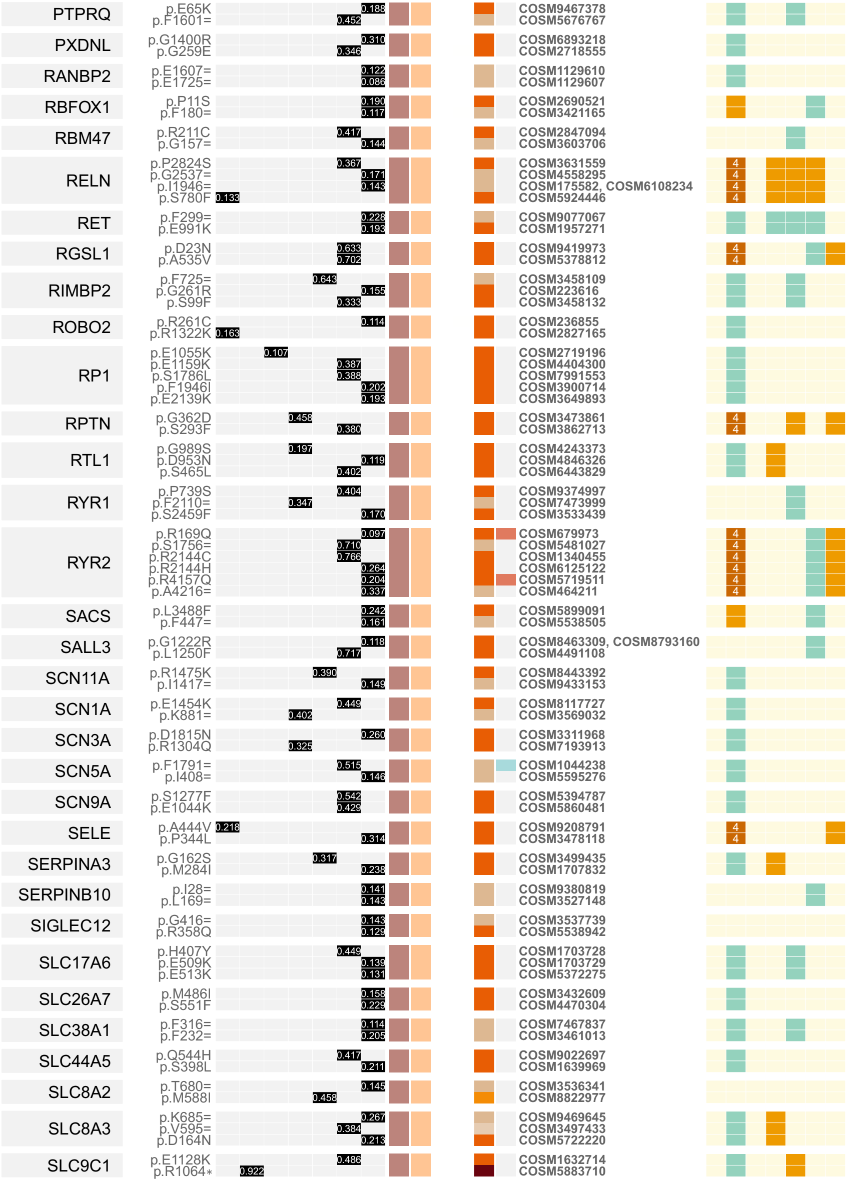
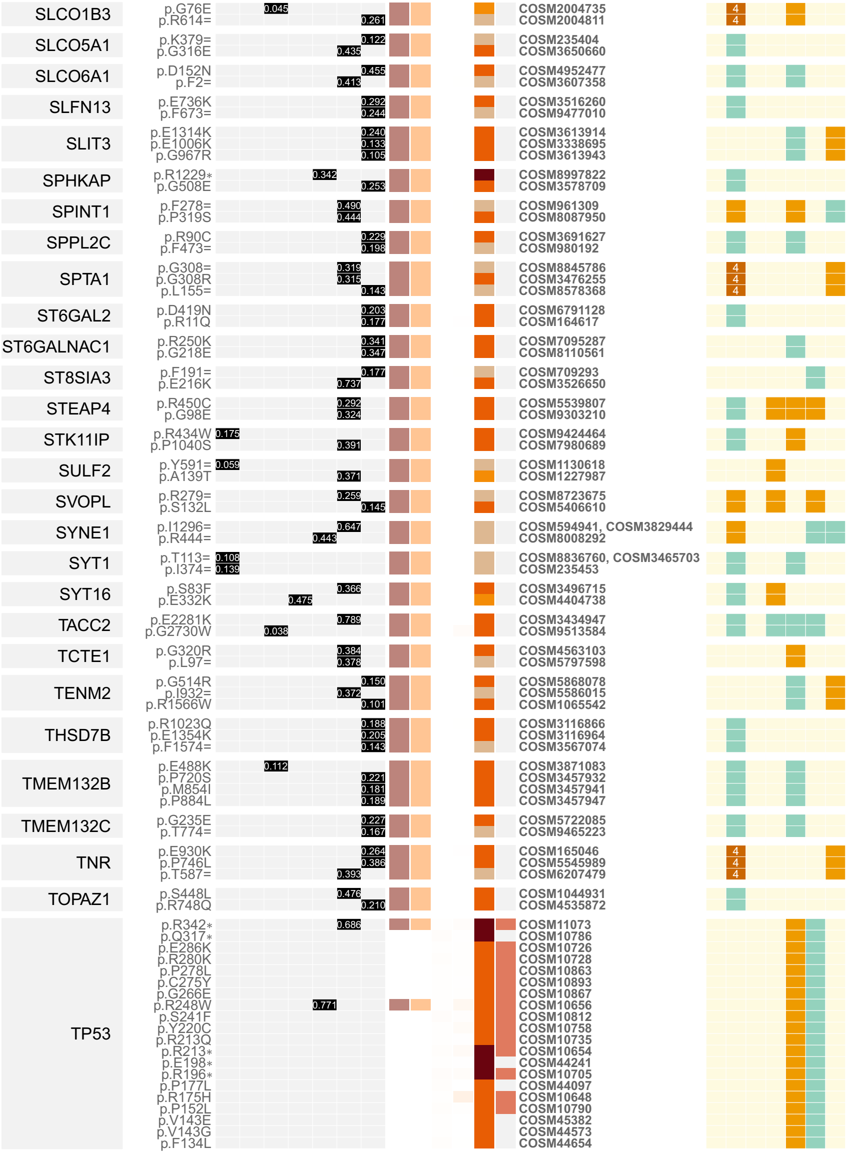
	p.S1464L	0.107	COSM8097859	6
PEG3	p.F1291=	0.393	COSM2971283	
	p.E747K	0.185	COSM3787800	
PER1	p.P473S	0.108	COSM8119666	4
	p.P272L	0.750	COSM4509712	4
PEX5L	p.R292W	0.481	COSM9299368	
	p.E24K	0.329	COSM1693839	
PIEZO2	p.L2486=	0.130	COSM708451	
	p.L2178=	0.165	COSM5646306	
PIK3CA	p.E545K		COSM763	
	p.H1047L		COSM776	
PIKFYVE	p.Q816*	0.150	COSM7648486	
	p.S1848F	0.191	COSM6361055	
PKHD1L1	p.Q763*	0.190	COSM4478999	
	p.E1182K	0.226	COSM3643980	
	p.G1436E	0.230	COSM6747380	
	p.R3681=	0.506 0.150	COSM9399252	
POM121L12	p.W151*	0.179	COSM3639628	4
	p.E199K	0.324	COSM4428327	4
	p.S228F	0.110	COSM3639639	4
POMGNT2	p.P356=	0.293	COSM7929966	
	p.F132=	0.427 0.175	COSM6676661	
	p.R77C	0.439	COSM8296087	
POTEF	p.G858R	0.388	COSM1494606	
	p.R652Q	0.292	COSM6291563	
PRDM16	p.G919S	0.226	COSM7947997	
	p.R933W	0.192	COSM8220448	
PRDM9	p.G548=	0.449	COSM5356703, COSM284224	
	p.G604=	0.158	COSM8774486	
PREX2	p.I255M	0.127	COSM6755389	
	p.I720=	0.108	COSM3925510	
PRSS35	p.D315N	0.758	COSM3630205	
	p.I366=	0.168	COSM3176686, COSM7656153	
PSG3	p.R252=	0.184	COSM3534868	
	p.R114W	0.260	COSM381157	
PTEN	p.R130*		COSM5152	
	p.R130L	0.492	COSM5216	
PTPRN2	p.E649K	0.125	COSM1699657	
	p.F157=	0.272	COSM3636842	





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SLCO5A1	p.K379=	0.122	COSM235404	
	p.G316E	0.435	COSM3650660	
SLCO6A1	p.D152N	0.455	COSM4952477	
	p.F2=	0.413	COSM3607358	
SLFN13	p.E736K	0.292	COSM3516260	
	p.F673=	0.244	COSM9477010	
SLIT3	p.E1314K	0.240	COSM3613914	
	p.E1006K	0.133	COSM3338695	
	p.G967R	0.105	COSM3613943	
SPHKAP	p.R1229*	0.342	COSM8997822	
	p.G508E	0.253	COSM3578709	
SPINT1	p.F278=	0.490	COSM961309	
	p.P319S	0.444	COSM8087950	
SPPL2C	p.R90C	0.229	COSM3691627	
	p.F473=	0.198	COSM980192	
SPTA1	p.G308=	0.319	COSM8845786	4
	p.G308R	0.315	COSM3476255	4
	p.L155=	0.143	COSM8578368	4
ST6GAL2	p.D419N	0.203	COSM6791128	
	p.R11Q	0.177	COSM164617	
ST6GALNAC1	p.R250K	0.341	COSM7095287	
	p.G218E	0.347	COSM8110561	
ST8SIA3	p.F191=	0.177	COSM709293	
	p.E216K	0.737	COSM3526650	
STEAP4	p.R450C	0.292	COSM5539807	
	p.G98E	0.324	COSM9303210	
STK11IP	p.R434W	0.175	COSM9424464	
	p.P1040S	0.391	COSM7980689	
SULF2	p.Y591=	0.059	COSM1130618	
	p.A139T	0.371	COSM1227987	
SVOPL	p.R279=	0.259	COSM8723675	
	p.S132L	0.145	COSM5406610	
SYNE1	p.I1296=	0.647	COSM594941, COSM3829444	
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SYT1	p.T113=	0.108	COSM8836760, COSM3465703	
	p.I374=	0.139	COSM235453	
SYT16	p.S83F	0.366	COSM3496715	
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TACC2	p.E2281K	0.789	COSM3434947	
	p.G2730W	0.038	COSM9513584	
TCTE1	p.G320R	0.384	COSM4563103	
	p.L97=	0.378	COSM5797598	
TENM2	p.G514R	0.150	COSM5868078	
	p.I932=	0.372	COSM5586015	
	p.R1566W	0.101	COSM1065542	
THSD7B	p.R1023Q	0.188	COSM3116866	
	p.E1354K	0.205	COSM3116964	
	p.F1574=	0.143	COSM3567074	
TMEM132B	p.E488K	0.112	COSM3871083	
	p.P720S	0.221	COSM3457932	
	p.M854I	0.181	COSM3457941	
	p.P884L	0.189	COSM3457947	
TMEM132C	p.G235E	0.227	COSM5722085	
	p.T774=	0.167	COSM9465223	
TNR	p.E930K	0.264	COSM165046	4
	p.P746L	0.386	COSM5545989	4
	p.T587=	0.393	COSM6207479	4
TOPAZ1	p.S448L	0.476	COSM1044931	
	p.R748Q	0.210	COSM4535872	
TP53	p.R342*	0.686	COSM11073	
	p.Q317*		COSM10786	
	p.E286K		COSM10726	
	p.R280K		COSM10728	
	p.P278L		COSM10863	
	p.C275Y		COSM10893	
	p.G266E		COSM10867	
	p.R248W	0.771	COSM10656	
	p.S241F		COSM10812	
	p.Y220C		COSM10758	
	p.R213Q		COSM10735	
	p.R213*		COSM10654	
	p.E198*		COSM44241	
	p.R196*		COSM10705	
	p.P177L		COSM44097	
	p.R175H		COSM10648	
	p.P152L		COSM10790	
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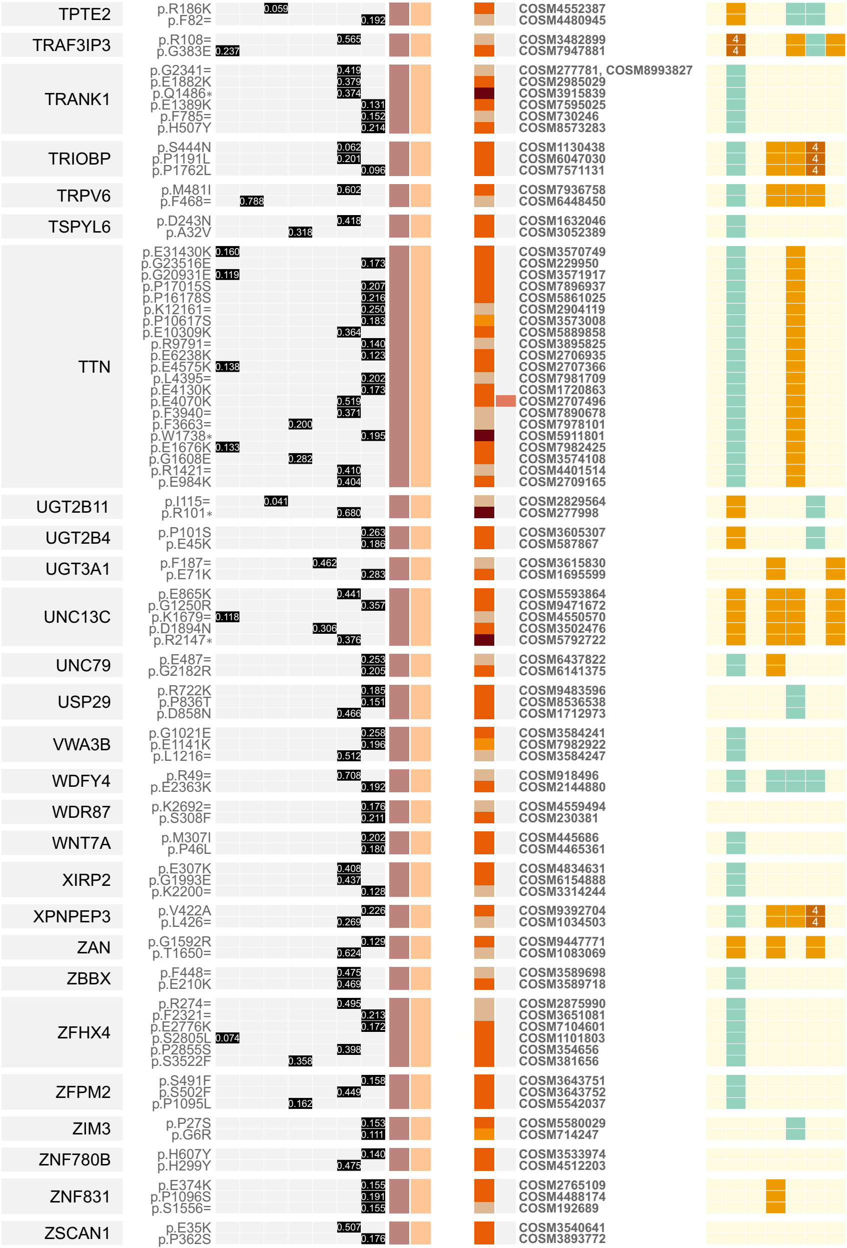

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TRAF3IP3	p.R108=	0.565	COSM3482899	4
	p.G383E	0.237	COSM7947881	4
TRANK1	p.G2341=	0.419	COSM277781, COSM8993827	
	p.E1882K	0.379	COSM2985029	
	p.Q1486*	0.374	COSM3915839	
	p.E1389K	0.131	COSM7595025	
	p.F785=	0.152	COSM730246	
	p.H507Y	0.214	COSM8573283	
TRIOBP	p.S444N	0.062	COSM1130438	4
	p.P1191L	0.201	COSM6047030	4
	p.P1762L	0.096	COSM7571131	4
TRPV6	p.M481I	0.602	COSM7936758	
	p.F468=	0.788	COSM6448450	
TSPYL6	p.D243N	0.418	COSM1632046	
	p.A32V	0.318	COSM3052389	
TTN	p.E31430K	0.160	COSM3570749	
	p.G23516E	0.173	COSM229950	
	p.G20931E	0.119	COSM3571917	
	p.P17015S	0.207	COSM7896937	
	p.P16178S	0.216	COSM5861025	
	p.K12161=	0.250	COSM2904119	
	p.P10617S	0.183	COSM3573008	
	p.E10309K	0.364	COSM5889858	
	p.R9791=	0.140	COSM3895825	
	p.E6238K	0.123	COSM2706935	
	p.E4575K	0.138	COSM2707366	
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	p.E4130K	0.173	COSM1720863	
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	p.F3940=	0.371	COSM7890678	
	p.F3663=	0.200	COSM7978101	
	p.W1738*	0.195	COSM5911801	
	p.E1676K	0.133	COSM7982425	
	p.G1608E	0.282	COSM3574108	
	p.R1421=	0.410	COSM4401514	
	p.E984K	0.404	COSM2709165	
UGT2B11	p.I115=	0.041	COSM2829564	
	p.R101*	0.680	COSM277998	
UGT2B4	p.P101S	0.263	COSM3605307	
	p.E45K	0.186	COSM587867	
UGT3A1	p.F187=	0.462	COSM3615830	
	p.E71K	0.283	COSM1695599	
UNC13C	p.E865K	0.441	COSM5593864	
	p.G1250R	0.357	COSM9471672	
	p.K1679=	0.118	COSM4550570	
	p.D1894N	0.306	COSM3502476	
	p.R2147*	0.376	COSM5792722	
UNC79	p.E487=	0.253	COSM6437822	
	p.G2182R	0.205	COSM6141375	
USP29	p.R722K	0.185	COSM9483596	
	p.P836T	0.151	COSM8536538	
	p.D858N	0.466	COSM1712973	
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	p.L1216=	0.512	COSM3584247	
WDFY4	p.R49=	0.708	COSM918496	
	p.E2363K	0.192	COSM2144880	
WDR87	p.K2692=	0.176	COSM4559494	
	p.S308F	0.211	COSM230381	
WNT7A	p.M307I	0.202	COSM445686	
	p.P46L	0.180	COSM4465361	
XIRP2	p.E307K	0.408	COSM4834631	
	p.G1993E	0.437	COSM6154888	
	p.K2200=	0.128	COSM3314244	
XPNPEP3	p.V422A	0.226	COSM9392704	4
	p.L426=	0.269	COSM1034503	4
ZAN	p.G1592R	0.129	COSM9447771	
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ZBBX	p.F448=	0.475	COSM3589698	
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	p.F2321=	0.213	COSM3651081	
	p.E2776K	0.172	COSM7104601	
	p.S2805L	0.074	COSM1101803	
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	p.S3522F	0.358	COSM381656	
ZFPM2	p.S491F	0.158	COSM3643751	
	p.S502F	0.449	COSM3643752	
	p.P1095L	0.162	COSM5542037	
ZIM3	p.P27S	0.153	COSM5580029	
	p.G6R	0.111	COSM714247	
ZNF780B	p.H607Y	0.140	COSM3533974	
	p.H299Y	0.475	COSM4512203	
ZNF831	p.E374K	0.155	COSM2765109	
	p.P1096S	0.191	COSM4488174	
	p.S1556=	0.155	COSM192689	
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	p.P362S	0.176	COSM3893772	