Supplementary Table S3: Comparison of the mutational frequencies in metaplastic breast cancers, metaplastic breast cancers of triple-negative phenotpe and triple-negative invasive ductal carcinomas of no special type Genes with non-synonymous mutations in >5% of either group of each comparison are included.

	Metaplastic breast cancers (n=35)				Triple-negative IDC-NSTs (n=69)				Fisher's exact test comparing metaplastic breast cancers to triple-negative IDC-NSTs with non-synonymous mutations		Fisher's exact test comparing metaplastic breast cancers to triple-negative IDC-NSTs with likely pathogenic mutations	
Gene	Number of cases with non-synonymous mutation	% of cases with non-synonymous mutation	Number of cases with likely pathogenic mutation	% of cases with likely pathogenic mutation	Number of cases with non-synonymous mutation	% of cases with non-synonymous mutation	Number of cases with likely pathogenic mutation	% of cases with likely pathogenic mutation	p-value	Odds ratio (95% confidence interval)	p-value	Odds ratio (95% confidence interval)
TP53	24	69%	24	69%	56	81%	56	81%	0.2174	0.51 (0.1967-1.319)	0.2174	0.51 (0.1967-1.319)
TTN	11	31%	0	0%	17	25%	0	0%	0.4892	1.397 (0.564-3.559)	1.0000	0 (0-Inf)
PIK3CA	10	29%	10	29%	5	7%	5	7%	0.0064	5.028 (1.567-16.68)	0.0064	5.028 (1.567-16.68)
FAT3	7	20%	0	0%	6	9%	0	0%	0.1218	2.598 (0.7784-9.041)	1.0000	0 (0-Inf)
ABCA13	5	14%	0	0%	4	6%	0	0%	0.1601	2.68 (0.6725-11.29)	1.0000	0 (0-Inf)
MUC4	5	14%	0	0%	3	4%	0	0%	0.1152	3.616 (0.828-18.41)	1.0000	0 (0-Inf)
PCLO	5	14%	0	0%	0	0%	0	0%	0.0035	Inf (2.032-Inf)	1.0000	0 (0-Inf)
HMCN1	4	11%	0	0%	2	3%	0	0%	0.1758	4.256 (0.7514-33.25)	1.0000	0 (0-Inf)
RELN	4	11%	1	3%	2	3%	0	0%	0.1758	4.256 (0.7514-33.25)	0.3365	Inf (0.1038-Inf)
RYR1	4	11%	1	3%	2	3%	0	0%	0.1758	4.256 (0.7514-33.25)	0.3365	Inf (0.1038-Inf)
ARID1A	4	11%	4	11%	1	1%	1	1%	0.0428	8.584 (1.068-215.7)	0.0428	8.584 (1.068-215.7)
FAT1	4	11%	4	11%	1	1%	1	1%	0.0428	8.584 (1.068-215.7)	0.0428	8.584 (1.068-215.7)
KMT2C	4	11%	4	11%	1	1%	1	1%	0.0428	8.584 (1.068-215.7)	0.0428	8.584 (1.068-215.7)
LRP1B	4	11%	0	0%	1	1%	0	0%	0.0428	8.584 (1.068-215.7)	1.0000	0 (0-Inf)
PCDHB2	4	11%	0	0%	1	1%	0	0%	0.0428	8.584 (1.068-215.7)	1.0000	0 (0-Inf)
PTEN	4	11%	4	11%	1	1%	1	1%	0.0428	8.584 (1.068-215.7)	0.0428	8.584 (1.068-215.7)
CHERP	4	11%	1	3%	0	0%	0	0%	0.0114	Inf (1.867-Inf)	0.3365	Inf (0.1038-Inf)
PIK3R1	4	11%	4	11%	0	0%	0	0%	0.0114	Inf (1.867-Inf)	0.0114	Inf (1.867-Inf)
USH2A	3	9%	0	0%	7	10%	1	1%	1.0000	0.8318 (0.1747-3.364)	1.0000	0 (0-37.46)
MUC17	3	9%	0	0%	4	6%	0	0%	0.6852	1.517 (0.2832-7.37)	1.0000	0 (0-Inf)
ZFHX4	3	9%	0	0%	4	6%	0	0%	0.6852	1.517 (0.2832-7.37)	1.0000	0 (0-Inf)
DNAH9	3	9%	0	0%	3	4%	1	1%	0.4018	2.047 (0.3519-11.92)	1.0000	0 (0-37.46)
NEB	3	9%	0	0%	3	4%	0	0%	0.4018	2.047 (0.3519-11.92)	1.0000	0 (0-Inf)
SPTA1	3	9%	0	0%	3	4%	0	0%	0.4018	2.047 (0.3519-11.92)	1.0000	0 (0-Inf)
HSPG2	3	9%	0	0%	2	3%	0	0%	0.3320	3.103 (0.461-26.09)	1.0000	0 (0-Inf)
NOTCH3	3	9%	0	0%	2	3%	1	1%	0.3320	3.103 (0.461-26.09)	1.0000	0 (0-37.46)
PCNXL2	3	9%	0	0%	2	3%	0	0%	0.3320	3.103 (0.461-26.09)	1.0000	0 (0-Inf)
PKHD1L1	3	9%	0	0%	2	3%	0	0%	0.3320	3.103 (0.461-26.09)	1.0000	0 (0-Inf)
ABCA4	3	9%	0	0%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-Inf)
ANK3	3	9%	1	3%	1	1%	1	1%	0.1096	6.255 (0.6631-166.9)	1.0000	1.986 (0.0505-78.08)
CDKL5	3	9%	2	6%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	0.1111	Inf (0.5747-Inf)
DNAH6	3	9%	0	0%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-Inf)
ERN2	3	9%	1	3%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	0.3365	Inf (0.1038-Inf)
MUC6	3	9%	0	0%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-Inf)
RYR3	3	9%	0	0%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-Inf)
SVEP1	3	9%	0	0%	1	1%	0	0%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-Inf)
TENM4	3	9%	0	0%	1	1%	1	1%	0.1096	6.255 (0.6631-166.9)	1.0000	0 (0-37.46)
BCLAF1	3	9%	3	9%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	0.0359	Inf (1.186-Inf)
CD84	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
CFH	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
COL4A6	3	9%	1	3%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	0.3365	Inf (0.1038-Inf)
DOCK8	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
EME1	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
FANCM	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
GPR112	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
LAMA5	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
MDN1	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
MROH2B	3	9%	1	3%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	0.3365	Inf (0.1038-Inf)
MTUS2	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
OLFML2B	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
PKDREJ	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
PRKD3	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
SACS	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
TANGO2	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
TMPRSS13	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
TNRC6C	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
TTC34	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
USP5	3	9%	0	0%	0	0%	0	0%	0.0359	Inf (1.186-Inf)	1.0000	0 (0-Inf)
AKAP9	2	6%	0	0%	5	7%	1	1%	1.0000	0.7776 (0.1045-3.977)	1.0000	0 (0-37.46)
GOLGB1	2	6%	0	0%	5	7%	2	3%	1.0000	0.7776 (0.1045-3.977)	0.5491	0 (0-6.861)
OBSCN	2	6%	0	0%	5	7%	0	0%	1.0000	0.7776 (0.1045-3.977)	1.0000	0 (0-Inf)
APOB	2	6%	0	0%	4	6%	0	0%	1.0000	0.985 (0.1263-5.577)	1.0000	0 (0-Inf)
CSMD2	2	6%	0	0%	4	6%	0	0%	1.0000	0.985 (0.1263-5.577)	1.0000	0 (0-Inf)
DNAH11	2	6%	0	0%	4	6%	1	1%	1.0000	0.985 (0.1263-5.577)	1.0000	0 (0-37.46)
PEG3	2	6%	0	0%	4	6%	1	1%	1.0000	0.985 (0.1263-5.577)	1.0000	0 (0-37.46)
CNTNAP2	2	6%	0	0%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	1.0000	0 (0-Inf)
DNAH3	2	6%	0	0%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	1.0000	0 (0-Inf)
KIAA2026	2	6%	0	0%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	1.0000	0 (0-Inf)
KIF13A	2	6%	1	3%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	0.3365	Inf (0.1038-Inf)
LAMA1	2	6%	0	0%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	1.0000	0 (0-Inf)
SCN3A	2	6%	0	0%	3	4%	0	0%	1.0000	1.329 (0.1582-8.948)	1.0000	0 (0-Inf)
ARHGAP29	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
ATP1A3	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
CACNA1E	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
CHD9	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
CUBN	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
CUL7	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
DYNC2H1	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
DYSF	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
HERC2	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
KIAA1109	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
KMT2D	2	6%	2	6%	2	3%	2	3%	0.6012	2.015 (0.2099-19.36)	0.6012	2.015 (0.2099-19.36)

MAGEC1	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
NBEA	2	6%	1	3%	2	3%	1	1%	0.6012	2.015 (0.2099-19.36)	1.0000	1.986 (0.0505-78.08)
PABPC1	2	6%	1	3%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	0.3365	Inf (0.1038-Inf)
PCSK9	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
RGS22	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
RIMS1	2	6%	0	0%	2	3%	1	1%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-37.46)
RYR2	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
SLIT2	2	6%	0	0%	2	3%	1	1%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-37.46)
SRRT	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
TAOK1	2	6%	2	6%	2	3%	1	1%	0.6012	2.015 (0.2099-19.36)	0.2614	4.061 (0.3081-121.2)
USPL1	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
UTRN	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
ZNF536	2	6%	0	0%	2	3%	0	0%	0.6012	2.015 (0.2099-19.36)	1.0000	0 (0-Inf)
ABCC11	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
ADCY10	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
ADNP	2	6%	2	6%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.1111	Inf (0.5747-Inf)
ALS2CR11	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
ASXL1	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
AXIN1	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
BAHCC1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
BIRC6	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
BRCA2	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
CDH9	2	6%	1	3%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.3365	Inf (0.1038-Inf)
CES5A	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
CHD6	2	6%	1	3%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.3365	Inf (0.1038-Inf)
CMYA5	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
COL20A1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
CPS1	2	6%	1	3%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.3365	Inf (0.1038-Inf)
CTNNA2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
DLC1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
DNAH8	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
DOPEY1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
DSCAML1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
FCGBP	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
FOCAD	2	6%	1	3%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.3365	Inf (0.1038-Inf)
FREM3	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
GLG1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
HECTD4	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
HRNR	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
IKZF2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
KIAA1551	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
LGR6	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
MIS18BP1	2	6%	0	0%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-37.46)
MKRN2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
MYH8	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
MYO5C	2	6%	0	0%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-37.46)
MYO7A	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
MYRIP	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
NCAM2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
NCOR1	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
NRDE2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
PBRM1	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
PCM1	2	6%	1	3%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	1.0000	1.986 (0.0505-78.08)
PHIP	2	6%	1	3%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	1.0000	1.986 (0.0505-78.08)
PI4KA	2	6%	2	6%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.1111	Inf (0.5747-Inf)
PLEC	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
PPARGC1B	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
PZP	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
RBM44	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
RPRD2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SEL1L2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SEMA3A	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SETBP1	2	6%	2	6%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.1111	Inf (0.5747-Inf)
SIPA1L2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SLC11A1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SLC12A4	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SLC6A12	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SLTM	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
SPEN	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
STAG2	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
TAF1	2	6%	2	6%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	0.2614	4.061 (0.3081-121.2)
TANGO6	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
TBC1D2B	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
THBS1	2	6%	2	6%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.1111	Inf (0.5747-Inf)
TJP1	2	6%	0	0%	1	1%	1	1%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-37.46)
TOPBP1	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
TUBA1B	2	6%	1	3%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	0.3365	Inf (0.1038-Inf)
USP54	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
VWA5B2	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
ZIC4	2	6%	0	0%	1	1%	0	0%	0.2614	4.061 (0.3081-121.2)	1.0000	0 (0-Inf)
ABCB7	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ADAM21	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ADAMTS20	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ADCY2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
AHSG	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ANKHD1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
AOX1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ARHGAP35	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
ARNT2	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
ASH1L	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
ATP11B	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
AUTS2	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
BCL9L	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
BCOR	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
C1QTNF1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
C20orf194	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CACNA1H	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)

CAD	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
CAPRIN2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CCDC148	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
CCDC181	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CCDC33	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CDH13	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CDH8	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CHDC2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CHRNA3	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CLUH	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CMKLR1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
COL11A1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
CRNN	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
CYFIP1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
DBX1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
DEFB118	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
DEPDC5	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
DGAT1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
DIS3L	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
EFTUD1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
FAT4	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
FDXACB1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
GABRA6	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
GABRP	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
GANC	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
GAS2L2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
GLRA4	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
GPR98	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
HDAC7	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
HMGXB3	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
HNRNPU	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ICA1L	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
IRS4	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
IRX1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
ITGA9	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
ITIH2	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
KCNH1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KCNJ13	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KCNK3	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KDM6A	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
KIAA0232	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KIAA0556	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KIF5A	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
KLHL26	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
KLK2	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
KPNA6	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
LRRK2	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
LYST	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
MAP1S	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
MAP3K9	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
MFSD11	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
MMP16	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
MMP28	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
NFX1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
NLGN3	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
NLRP1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
NOL4	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
NOLC1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
NSD1	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
NTSR2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
NUP210L	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
OR4C3	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
OR52I1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
OR8J1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
OTOF	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PAPLN	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PCDH18	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PCMTD1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PDYN	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PLA2G4F	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PLCD1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
PRKDC	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PRMT8	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PRRC2B	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PSG6	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
PTPRT	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
RBL2	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
RET	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
RMDN1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
RPAP2	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
RSF1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
RUNX1	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
SCRIB	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
SLC15A2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
SLITRK4	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
SMCHD1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
SOX30	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
SOX5	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
STAB2	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
TAL1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
THSD7B	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
TIE1	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
TRAPPC8	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
TRIM10	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
TRIM33	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
TRPM1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
TTC28	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)

UBR5	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
USP9X	2	6%	2	6%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.1111	Inf (0.5747-Inf)
WDR87	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
WNK3	2	6%	1	3%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	0.3365	Inf (0.1038-Inf)
WNT5A	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ZIK1	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ZNF180	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ZNF335	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
ZNF585B	2	6%	0	0%	0	0%	0	0%	0.1111	Inf (0.5747-Inf)	1.0000	0 (0-Inf)
FLG	1	3%	0	0%	6	9%	0	0%	0.4189	0.3116 (0.0133-2.304)	1.0000	0 (0-Inf)
ARID1B	1	3%	0	0%	5	7%	1	1%	0.6610	0.3794 (0.0157-2.998)	1.0000	0 (0-37.46)
F5	1	3%	0	0%	5	7%	0	0%	0.6610	0.3794 (0.0157-2.998)	1.0000	0 (0-Inf)
XIRP2	1	3%	0	0%	5	7%	2	3%	0.6610	0.3794 (0.0157-2.998)	0.5491	0 (0-6.861)
ASXL3	1	3%	0	0%	4	6%	0	0%	0.6610	0.4809 (0.0192-3.863)	1.0000	0 (0-Inf)
BRCA1	1	3%	0	0%	4	6%	4	6%	0.6610	0.4809 (0.0192-3.863)	0.2976	0 (0-2.176)
SPTBN5	1	3%	0	0%	4	6%	1	1%	0.6610	0.4809 (0.0192-3.863)	1.0000	0 (0-37.46)
SSPO	1	3%	0	0%	4	6%	1	1%	0.6610	0.4809 (0.0192-3.863)	1.0000	0 (0-37.46)
TEP1	1	3%	0	0%	4	6%	0	0%	0.6610	0.4809 (0.0192-3.863)	1.0000	0 (0-Inf)
MUC16	0	0%	0	0%	6	9%	0	0%	0.0948	0 (0-1.399)	1.0000	0 (0-Inf)
DNAH7	0	0%	0	0%	5	7%	1	1%	0.1650	0 (0-2.032)	1.0000	0 (0-37.46)
EPS8L1	0	0%	0	0%	5	7%	0	0%	0.1650	0 (0-2.032)	1.0000	0 (0-Inf)
MUC5B	0	0%	0	0%	5	7%	2	3%	0.1650	0 (0-2.032)	0.5491	0 (0-6.861)
ACTN2	0	0%	0	0%	4	6%	0	0%	0.2976	0 (0-2.176)	1.0000	0 (0-Inf)
ARHGEF1	0	0%	0	0%	4	6%	2	3%	0.2976	0 (0-2.176)	0.5491	0 (0-6.861)
CACNA1B	0	0%	0	0%	4	6%	0	0%	0.2976	0 (0-2.176)	1.0000	0 (0-Inf)
CACNA1F	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
CFAP47	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
KCNT2	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
LRP2	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
PREX1	0	0%	0	0%	4	6%	0	0%	0.2976	0 (0-2.176)	1.0000	0 (0-Inf)
PTPRZ1	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
SPEG	0	0%	0	0%	4	6%	1	1%	0.2976	0 (0-2.176)	1.0000	0 (0-37.46)
UBR4	0	0%	0	0%	4	6%	2	3%	0.2976	0 (0-2.176)	0.5491	0 (0-6.861)
ZFR	0	0%	0	0%	4	6%	0	0%	0.2976	0 (0-2.176)	1.0000	0 (0-Inf)
ZNF318	0	0%	0	0%	4	6%	0	0%	0.2976	0 (0-2.176)	1.0000	0 (0-Inf)

	Metaplastic breast cancers of triple-negative phenotype (n=33)				**Triple-negative IDC-NSTs (n=69)**				**Fisher's exact test comparing metaplastic breast cancers of triple-negative phenotype to triple-negative IDC-NSTs with non-synonymous mutations**		**Fisher's exact test comparing metaplastic breast cancers of triple-negative phenotype to triple-negative IDC-NSTs with likely pathogenic mutations**	
Gene	**Number of cases with non-synonymous mutation**	**% of cases with non-synonymous mutation**	**Number of cases with likely pathogenic mutation**	**% of cases with likely pathogenic mutation**	**Number of cases with non-synonymous mutation**	**% of cases with non-synonymous mutation**	**Number of cases with likely pathogenic mutation**	**% of cases with likely pathogenic mutation**	**p-value**	**Odds ratio (95% confidence interval)**	**p-value**	**Odds ratio (95% confidence interval)**
TP53	22	67%	22	67%	56	81%	56	81%	0.1356	0.4681 (0.181-1.225)	0.1356	0.4681 (0.181-1.225)
TTN	11	33%	0	0%	17	25%	0	0%	0.4772	1.523 (0.6117-3.963)	1.0000	0 (0-Inf)
PIK3CA	8	24%	8	24%	5	7%	5	7%	0.0250	4.031 (1.093-13.86)	0.0250	4.031 (1.093-13.86)
FAT3	7	21%	0	0%	6	9%	0	0%	0.1108	2.795 (0.8352-9.814)	1.0000	0 (0-Inf)
ABCA13	5	15%	0	0%	4	6%	0	0%	0.1445	2.868 (0.7174-12.12)	1.0000	0 (0-Inf)
MUC4	5	15%	0	0%	3	4%	0	0%	0.1081	3.869 (0.8834-19.76)	1.0000	0 (0-Inf)
PCLO	5	15%	0	0%	0	0%	0	0%	0.0028	Inf (2.163-Inf)	1.0000	0 (0-Inf)
HMCN1	4	12%	0	0%	2	3%	0	0%	0.0843	4.543 (0.8002-35.57)	1.0000	0 (0-Inf)
RELN	4	12%	1	3%	2	3%	0	0%	0.0843	4.543 (0.8002-35.57)	0.3235	Inf (0.11-Inf)
RYR1	4	12%	1	3%	2	3%	0	0%	0.0843	4.543 (0.8002-35.57)	0.3235	Inf (0.11-Inf)
ARID1A	4	12%	4	12%	1	1%	1	1%	0.0367	9.161 (1.137-230.5)	0.0367	9.161 (1.137-230.5)
FAT1	4	12%	4	12%	1	1%	1	1%	0.0367	9.161 (1.137-230.5)	0.0367	9.161 (1.137-230.5)
KMT2C	4	12%	4	12%	1	1%	1	1%	0.0367	9.161 (1.137-230.5)	0.0367	9.161 (1.137-230.5)
LRP1B	4	12%	0	0%	1	1%	0	0%	0.0367	9.161 (1.137-230.5)	1.0000	0 (0-Inf)
PCDHB2	4	12%	0	0%	1	1%	0	0%	0.0367	9.161 (1.137-230.5)	1.0000	0 (0-Inf)
PTEN	4	12%	4	12%	1	1%	1	1%	0.0367	9.161 (1.137-230.5)	0.0367	9.161 (1.137-230.5)
CHERP	4	12%	1	3%	0	0%	0	0%	0.0096	Inf (1.989-Inf)	0.3235	Inf (0.11-Inf)
PIK3R1	4	12%	4	12%	0	0%	0	0%	0.0096	Inf (1.989-Inf)	0.0096	Inf (1.989-Inf)
USH2A	3	9%	0	0%	7	10%	1	1%	1.0000	0.8867 (0.1858-3.61)	1.0000	0 (0-39.73)
MUC17	3	9%	0	0%	4	6%	0	0%	0.6787	1.617 (0.3011-7.876)	1.0000	0 (0-Inf)
ZFHX4	3	9%	0	0%	4	6%	0	0%	0.6787	1.617 (0.3011-7.876)	1.0000	0 (0-Inf)
DNAH9	3	9%	0	0%	3	4%	1	1%	0.3856	2.181 (0.3741-12.73)	1.0000	0 (0-39.73)
NEB	3	9%	0	0%	3	4%	0	0%	0.3856	2.181 (0.3741-12.73)	1.0000	0 (0-Inf)
SPTA1	3	9%	0	0%	3	4%	0	0%	0.3856	2.181 (0.3741-12.73)	1.0000	0 (0-Inf)
HSPG2	3	9%	0	0%	2	3%	0	0%	0.3254	3.306 (0.4902-27.85)	1.0000	0 (0-Inf)
NOTCH3	3	9%	0	0%	2	3%	1	1%	0.3254	3.306 (0.4902-27.85)	1.0000	0 (0-39.73)
PCNXL2	3	9%	0	0%	2	3%	0	0%	0.3254	3.306 (0.4902-27.85)	1.0000	0 (0-Inf)
PKHD1L1	3	9%	0	0%	2	3%	0	0%	0.3254	3.306 (0.4902-27.85)	1.0000	0 (0-Inf)
ABCA4	3	9%	0	0%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	1.0000	0 (0-Inf)
ANK3	3	9%	1	3%	1	1%	1	1%	0.0982	6.662 (0.7051-178.1)	0.5446	2.108 (0.0536-82.96)
CDKL5	3	9%	2	6%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	0.1025	Inf (0.6102-Inf)
DNAH6	3	9%	0	0%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	1.0000	0 (0-Inf)
ERN2	3	9%	1	3%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	0.3235	Inf (0.11-Inf)
RYR3	3	9%	0	0%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	1.0000	0 (0-Inf)
SVEP1	3	9%	0	0%	1	1%	0	0%	0.0982	6.662 (0.7051-178.1)	1.0000	0 (0-Inf)
TENM4	3	9%	0	0%	1	1%	1	1%	0.0982	6.662 (0.7051-178.1)	1.0000	0 (0-39.73)
BCLAF1	3	9%	3	9%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	0.0318	Inf (1.261-Inf)
CD84	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
CFH	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
COL4A6	3	9%	1	3%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	0.3235	Inf (0.11-Inf)
DOCK8	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
EME1	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
FANCM	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
GPR112	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
LAMA5	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
MDN1	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
OLFML2B	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
PKDREJ	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
PRKD3	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
SACS	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
TANGO2	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)

TNRC6C	3	9%	0	0%	0	0%	0	0%	0.0318	Inf (1.261-Inf)	1.0000	0 (0-Inf)
AKAP9	2	6%	0	0%	5	7%	1	1%	1.0000	0.8273 (0.111-4.252)	1.0000	0 (0-39.73)
GOLGB1	2	6%	0	0%	5	7%	2	3%	1.0000	0.8273 (0.111-4.252)	1.0000	0 (0-7.281)
OBSCN	2	6%	0	0%	5	7%	0	0%	1.0000	0.8273 (0.111-4.252)	1.0000	0 (0-Inf)
APOB	2	6%	0	0%	4	6%	0	0%	1.0000	1.048 (0.1341-5.946)	1.0000	0 (0-Inf)
CSMD2	2	6%	0	0%	4	6%	0	0%	1.0000	1.048 (0.1341-5.946)	1.0000	0 (0-Inf)
DNAH11	2	6%	0	0%	4	6%	1	1%	1.0000	1.048 (0.1341-5.946)	1.0000	0 (0-39.73)
PEG3	2	6%	0	0%	4	6%	1	1%	1.0000	1.048 (0.1341-5.946)	1.0000	0 (0-39.73)
CNTNAP2	2	6%	0	0%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	1.0000	0 (0-Inf)
DNAH3	2	6%	0	0%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	1.0000	0 (0-Inf)
KIAA2026	2	6%	0	0%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	1.0000	0 (0-Inf)
KIF13A	2	6%	1	3%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	0.3235	Inf (0.11-Inf)
LAMA1	2	6%	0	0%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	1.0000	0 (0-Inf)
SCN3A	2	6%	0	0%	3	4%	0	0%	0.6575	1.414 (0.168-9.537)	1.0000	0 (0-Inf)
ARHGAP29	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
ATP1A3	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
CACNA1E	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
CUL7	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
DYNC2H1	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
HERC2	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
KIAA1109	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
KMT2D	2	6%	2	6%	2	3%	2	3%	0.5931	2.144 (0.2228-20.62)	0.5931	2.144 (0.2228-20.62)
MAGEC1	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
NBEA	2	6%	1	3%	2	3%	1	1%	0.5931	2.144 (0.2228-20.62)	0.5446	2.108 (0.0536-82.96)
PABPC1	2	6%	1	3%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	0.3235	Inf (0.11-Inf)
PCSK9	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
RGS22	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
RIMS1	2	6%	0	0%	2	3%	1	1%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-39.73)
RYR2	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
SLIT2	2	6%	0	0%	2	3%	1	1%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-39.73)
SRRT	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
TAOK1	2	6%	2	6%	2	3%	1	1%	0.5931	2.144 (0.2228-20.62)	0.2440	4.317 (0.3272-129)
USPL1	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
UTRN	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
ZNF536	2	6%	0	0%	2	3%	0	0%	0.5931	2.144 (0.2228-20.62)	1.0000	0 (0-Inf)
ABCC11	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
ADCY10	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
ADNP	2	6%	2	6%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.1025	Inf (0.6102-Inf)
ALS2CR11	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
ASXL1	2	6%	2	6%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.2440	4.317 (0.3272-129)
AXIN1	2	6%	2	6%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.2440	4.317 (0.3272-129)
BAHCC1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
BIRC6	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
BRCA2	2	6%	2	6%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.2440	4.317 (0.3272-129)
CDH9	2	6%	1	3%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.3235	Inf (0.11-Inf)
CES5A	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
CHD6	2	6%	1	3%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.3235	Inf (0.11-Inf)
CMYA5	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
COL20A1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
CPS1	2	6%	1	3%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.3235	Inf (0.11-Inf)
DLC1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
DNAH8	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
DOPEY1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
DSCAML1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
FCGBP	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
FREM3	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
GLG1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
HECTD4	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
HRNR	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
IKZF2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
KIAA1551	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
LGR6	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
MIS18BP1	2	6%	0	0%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-39.73)
MKRN2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
MUC6	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
MYH8	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
MYO5C	2	6%	0	0%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-39.73)
MYO7A	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
NCAM2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
NCOR1	2	6%	2	6%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.2440	4.317 (0.3272-129)
NRDE2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
PCM1	2	6%	1	3%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.5446	2.108 (0.0536-82.96)
PHIP	2	6%	1	3%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.5446	2.108 (0.0536-82.96)
PI4KA	2	6%	2	6%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.1025	Inf (0.6102-Inf)
PLEC	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
PPARGC1B	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
PZP	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
RBM44	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SEL1L2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SEMA3A	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SETBP1	2	6%	2	6%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.1025	Inf (0.6102-Inf)
SIPA1L2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SLC11A1	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SLC12A4	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SLC6A12	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
SLTM	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
STAG2	2	6%	2	6%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	0.2440	4.317 (0.3272-129)
TANGO6	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
TBC1D2B	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
THBS1	2	6%	2	6%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.1025	Inf (0.6102-Inf)
TJP1	2	6%	0	0%	1	1%	1	1%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-39.73)
TUBA1B	2	6%	1	3%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	0.3235	Inf (0.11-Inf)
USP54	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
VWA5B2	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
ZIC4	2	6%	0	0%	1	1%	0	0%	0.2440	4.317 (0.3272-129)	1.0000	0 (0-Inf)
ABCB7	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ADAM21	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)

ADAMTS20	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ADCY2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
AHSG	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ANKHD1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
AOX1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ARHGAP35	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
ARNT2	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
ASH1L	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
ATP11B	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
AUTS2	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
BCL9L	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
C1QTNF1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
C20orf194	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CACNA1H	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CAD	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
CCDC181	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CCDC33	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CDH13	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CDH8	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CHDC2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CHRNA3	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CLUH	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CMKLR1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
COL11A1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
CRNN	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
CYFIP1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
DBX1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
DEFB118	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
DEPDC5	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
DGAT1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
DIS3L	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
EFTUD1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
FDXACB1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
GABRA6	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
GABRP	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
GANC	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
GAS2L2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
GLRA4	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
GPR98	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
HDAC7	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
HMGXB3	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
HNRNPU	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ICA1L	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
IRS4	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
IRX1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
ITGA9	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
ITIH2	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
KCNH1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
KCNJ13	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
KCNK3	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
KDM6A	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
KIAA0556	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
KIF5A	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
KLHL26	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
KLK2	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
KPNA6	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
LRRK2	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
LYST	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
MAP1S	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
MAP3K9	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
MFSD11	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
MMP16	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
MMP28	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
MROH2B	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
MTUS2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
NFX1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
NLGN3	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
NLRP1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
NOL4	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
NOLC1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
NSD1	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
NTSR2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
NUP210L	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
OR4C3	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
OR52I1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
OR8J1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
OTOF	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PAPLN	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PCDH18	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PCMTD1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PDYN	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PLA2G4F	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PLCD1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
PRKDC	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PRMT8	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PRRC2B	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PSG6	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
PTPRT	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
RET	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
RMDN1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
RPAP2	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
RSF1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
RUNX1	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
SCRIB	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
SLC15A2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
SLITRK4	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
SMCHD1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)

SOX30	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
SOX5	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
STAB2	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TAL1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
THSD7B	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TIE1	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
TMPRSS13	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TRAPPC8	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TRIM10	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
TRIM33	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
TRPM1	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TTC28	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
TTC34	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
UBR5	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
USP5	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
USP9X	2	6%	2	6%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.1025	Inf (0.6102-Inf)
WDR87	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
WNK3	2	6%	1	3%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	0.3235	Inf (0.11-Inf)
WNT5A	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ZNF180	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ZNF335	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
ZNF585B	2	6%	0	0%	0	0%	0	0%	0.1025	Inf (0.6102-Inf)	1.0000	0 (0-Inf)
FLG	1	3%	0	0%	6	9%	0	0%	0.4233	0.331 (0.0141-2.449)	1.0000	0 (0-Inf)
ARID1B	1	3%	0	0%	5	7%	1	1%	0.6610	0.403 (0.0167-3.199)	1.0000	0 (0-39.73)
F5	1	3%	0	0%	5	7%	0	0%	0.6610	0.403 (0.0167-3.199)	1.0000	0 (0-Inf)
XIRP2	1	3%	0	0%	5	7%	2	3%	0.6610	0.403 (0.0167-3.199)	1.0000	0 (0-7.281)
ASXL3	1	3%	0	0%	4	6%	0	0%	1.0000	0.5108 (0.0203-4.111)	1.0000	0 (0-Inf)
BRCA1	1	3%	0	0%	4	6%	4	6%	1.0000	0.5108 (0.0203-4.111)	0.3017	0 (0-2.311)
SPTBN5	1	3%	0	0%	4	6%	1	1%	1.0000	0.5108 (0.0203-4.111)	1.0000	0 (0-39.73)
SSPO	1	3%	0	0%	4	6%	1	1%	1.0000	0.5108 (0.0203-4.111)	1.0000	0 (0-39.73)
TEP1	1	3%	0	0%	4	6%	0	0%	1.0000	0.5108 (0.0203-4.111)	1.0000	0 (0-Inf)
MUC16	0	0%	0	0%	6	9%	0	0%	0.1733	0 (0-1.489)	1.0000	0 (0-Inf)
DNAH7	0	0%	0	0%	5	7%	1	1%	0.1717	0 (0-2.163)	1.0000	0 (0-39.73)
EPS8L1	0	0%	0	0%	5	7%	0	0%	0.1717	0 (0-2.163)	1.0000	0 (0-Inf)
MUC5B	0	0%	0	0%	5	7%	2	3%	0.1717	0 (0-2.163)	1.0000	0 (0-7.281)
ACTN2	0	0%	0	0%	4	6%	0	0%	0.3017	0 (0-2.311)	1.0000	0 (0-Inf)
ARHGEF1	0	0%	0	0%	4	6%	2	3%	0.3017	0 (0-2.311)	1.0000	0 (0-7.281)
CACNA1B	0	0%	0	0%	4	6%	0	0%	0.3017	0 (0-2.311)	1.0000	0 (0-Inf)
CACNA1F	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
CFAP47	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
KCNT2	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
LRP2	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
PREX1	0	0%	0	0%	4	6%	0	0%	0.3017	0 (0-2.311)	1.0000	0 (0-Inf)
PTPRZ1	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
SPEG	0	0%	0	0%	4	6%	1	1%	0.3017	0 (0-2.311)	1.0000	0 (0-39.73)
UBR4	0	0%	0	0%	4	6%	2	3%	0.3017	0 (0-2.311)	1.0000	0 (0-7.281)
ZFR	0	0%	0	0%	4	6%	0	0%	0.3017	0 (0-2.311)	1.0000	0 (0-Inf)
ZNF318	0	0%	0	0%	4	6%	0	0%	0.3017	0 (0-2.311)	1.0000	0 (0-Inf)