

A list of mutated gene associated with OS

variable	pval	method	pval.txt	p.adj
ADAM22	2.14E-04	Log-rank	P=0.00021	0.016649
GAA	2.14E-04	Log-rank	P=0.00021	0.016649
TJP1	2.14E-04	Log-rank	P=0.00021	0.016649
ZNF106	2.14E-04	Log-rank	P=0.00021	0.016649
SOX8	2.14E-04	Log-rank	P=0.00021	0.016649
ZNF134	2.14E-04	Log-rank	P=0.00021	0.016649
ADAM7	2.14E-04	Log-rank	P=0.00021	0.016649
TP73	9.11E-04	Log-rank	P=0.00091	0.016649
SLC45A1	9.11E-04	Log-rank	P=0.00091	0.016649
SLC2A7	9.11E-04	Log-rank	P=0.00091	0.016649
ZBTB17	9.11E-04	Log-rank	P=0.00091	0.016649
ARHGEF19	9.11E-04	Log-rank	P=0.00091	0.016649
LUZP1	9.11E-04	Log-rank	P=0.00091	0.016649
TAF12	9.11E-04	Log-rank	P=0.00091	0.016649
OPRD1	9.11E-04	Log-rank	P=0.00091	0.016649
PUM1	9.11E-04	Log-rank	P=0.00091	0.016649
KANK4	9.11E-04	Log-rank	P=0.00091	0.016649
LPAR3	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF326	9.11E-04	Log-rank	P=0.00091	0.016649
HIPK1	9.11E-04	Log-rank	P=0.00091	0.016649
CD101	9.11E-04	Log-rank	P=0.00091	0.016649
VTCN1	9.11E-04	Log-rank	P=0.00091	0.016649
VPS72	9.11E-04	Log-rank	P=0.00091	0.016649
LELP1	9.11E-04	Log-rank	P=0.00091	0.016649
CREB3L4	9.11E-04	Log-rank	P=0.00091	0.016649
ASH1L	9.11E-04	Log-rank	P=0.00091	0.016649
LY9	9.11E-04	Log-rank	P=0.00091	0.016649
SUCO	9.11E-04	Log-rank	P=0.00091	0.016649
SOAT1	9.11E-04	Log-rank	P=0.00091	0.016649
SLC45A3	9.11E-04	Log-rank	P=0.00091	0.016649
CCDC185	9.11E-04	Log-rank	P=0.00091	0.016649
TP53BP2	9.11E-04	Log-rank	P=0.00091	0.016649
WDR26	9.11E-04	Log-rank	P=0.00091	0.016649
OR2B11	9.11E-04	Log-rank	P=0.00091	0.016649
OR2L13	9.11E-04	Log-rank	P=0.00091	0.016649
MAN2B2	9.11E-04	Log-rank	P=0.00091	0.016649
FRYL	9.11E-04	Log-rank	P=0.00091	0.016649
NOA1	9.11E-04	Log-rank	P=0.00091	0.016649
MUC7	9.11E-04	Log-rank	P=0.00091	0.016649
PDGFC	9.11E-04	Log-rank	P=0.00091	0.016649
CEP72	9.11E-04	Log-rank	P=0.00091	0.016649
ITGA2	9.11E-04	Log-rank	P=0.00091	0.016649

DDX4	9.11E-04	Log-rank	P=0.00091	0.016649
IL31RA	9.11E-04	Log-rank	P=0.00091	0.016649
PLK2	9.11E-04	Log-rank	P=0.00091	0.016649
ENC1	9.11E-04	Log-rank	P=0.00091	0.016649
ANKRD34B	9.11E-04	Log-rank	P=0.00091	0.016649
ANKHD1	9.11E-04	Log-rank	P=0.00091	0.016649
DBN1	9.11E-04	Log-rank	P=0.00091	0.016649
PHF14	9.11E-04	Log-rank	P=0.00091	0.016649
NPSR1	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF138	9.11E-04	Log-rank	P=0.00091	0.016649
MAGI2	9.11E-04	Log-rank	P=0.00091	0.016649
KPNA7	9.11E-04	Log-rank	P=0.00091	0.016649
DNAJC2	9.11E-04	Log-rank	P=0.00091	0.016649
TMEM209	9.11E-04	Log-rank	P=0.00091	0.016649
HACD4	9.11E-04	Log-rank	P=0.00091	0.016649
CAAP1	9.11E-04	Log-rank	P=0.00091	0.016649
TOPORS	9.11E-04	Log-rank	P=0.00091	0.016649
VCP	9.11E-04	Log-rank	P=0.00091	0.016649
RNF38	9.11E-04	Log-rank	P=0.00091	0.016649
TJP2	9.11E-04	Log-rank	P=0.00091	0.016649
GABBR2	9.11E-04	Log-rank	P=0.00091	0.016649
CAVIN4	9.11E-04	Log-rank	P=0.00091	0.016649
SLC44A1	9.11E-04	Log-rank	P=0.00091	0.016649
KIAA0368	9.11E-04	Log-rank	P=0.00091	0.016649
C9orf147	9.11E-04	Log-rank	P=0.00091	0.016649
AKNA	9.11E-04	Log-rank	P=0.00091	0.016649
TRIM32	9.11E-04	Log-rank	P=0.00091	0.016649
TSC1	9.11E-04	Log-rank	P=0.00091	0.016649
TMEM141	9.11E-04	Log-rank	P=0.00091	0.016649
ENTPD2	9.11E-04	Log-rank	P=0.00091	0.016649
TUBB4B	9.11E-04	Log-rank	P=0.00091	0.016649
NELFB	9.11E-04	Log-rank	P=0.00091	0.016649
WNK1	9.11E-04	Log-rank	P=0.00091	0.016649
TAS2R50	9.11E-04	Log-rank	P=0.00091	0.016649
ETNK1	9.11E-04	Log-rank	P=0.00091	0.016649
PRPF40B	9.11E-04	Log-rank	P=0.00091	0.016649
INHBE	9.11E-04	Log-rank	P=0.00091	0.016649
TMTC2	9.11E-04	Log-rank	P=0.00091	0.016649
ATP2B1	9.11E-04	Log-rank	P=0.00091	0.016649
WSCD2	9.11E-04	Log-rank	P=0.00091	0.016649
PPTC7	9.11E-04	Log-rank	P=0.00091	0.016649
MPHOSPH9	9.11E-04	Log-rank	P=0.00091	0.016649
CAMKK1	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF232	9.11E-04	Log-rank	P=0.00091	0.016649

C17orf74	9.11E-04	Log-rank	P=0.00091	0.016649
PIGL	9.11E-04	Log-rank	P=0.00091	0.016649
VTN	9.11E-04	Log-rank	P=0.00091	0.016649
PHF12	9.11E-04	Log-rank	P=0.00091	0.016649
MYO18A	9.11E-04	Log-rank	P=0.00091	0.016649
TEFM	9.11E-04	Log-rank	P=0.00091	0.016649
HEATR9	9.11E-04	Log-rank	P=0.00091	0.016649
HNF1B	9.11E-04	Log-rank	P=0.00091	0.016649
KRT34	9.11E-04	Log-rank	P=0.00091	0.016649
MRPL10	9.11E-04	Log-rank	P=0.00091	0.016649
SPAG9	9.11E-04	Log-rank	P=0.00091	0.016649
EPX	9.11E-04	Log-rank	P=0.00091	0.016649
BCAS3	9.11E-04	Log-rank	P=0.00091	0.016649
FADS6	9.11E-04	Log-rank	P=0.00091	0.016649
MRPS7	9.11E-04	Log-rank	P=0.00091	0.016649
RNF213	9.11E-04	Log-rank	P=0.00091	0.016649
CCDC137	9.11E-04	Log-rank	P=0.00091	0.016649
IFNGR2	9.11E-04	Log-rank	P=0.00091	0.016649
RUNX1	9.11E-04	Log-rank	P=0.00091	0.016649
PXDN	9.11E-04	Log-rank	P=0.00091	0.016649
GEN1	9.11E-04	Log-rank	P=0.00091	0.016649
LRPPRC	9.11E-04	Log-rank	P=0.00091	0.016649
PAPOLG	9.11E-04	Log-rank	P=0.00091	0.016649
CD207	9.11E-04	Log-rank	P=0.00091	0.016649
POLR1A	9.11E-04	Log-rank	P=0.00091	0.016649
IL1R1	9.11E-04	Log-rank	P=0.00091	0.016649
KLHL23	9.11E-04	Log-rank	P=0.00091	0.016649
ANKAR	9.11E-04	Log-rank	P=0.00091	0.016649
SPATS2L	9.11E-04	Log-rank	P=0.00091	0.016649
STK36	9.11E-04	Log-rank	P=0.00091	0.016649
ATG9A	9.11E-04	Log-rank	P=0.00091	0.016649
DNAJB2	9.11E-04	Log-rank	P=0.00091	0.016649
HTR2B	9.11E-04	Log-rank	P=0.00091	0.016649
TAMM41	9.11E-04	Log-rank	P=0.00091	0.016649
TOP2B	9.11E-04	Log-rank	P=0.00091	0.016649
UBP1	9.11E-04	Log-rank	P=0.00091	0.016649
TRAK1	9.11E-04	Log-rank	P=0.00091	0.016649
CSPG5	9.11E-04	Log-rank	P=0.00091	0.016649
COL7A1	9.11E-04	Log-rank	P=0.00091	0.016649
RAD54L2	9.11E-04	Log-rank	P=0.00091	0.016649
NUDT16	9.11E-04	Log-rank	P=0.00091	0.016649
ACAD11	9.11E-04	Log-rank	P=0.00091	0.016649
NLGN1	9.11E-04	Log-rank	P=0.00091	0.016649
FAM8A1	9.11E-04	Log-rank	P=0.00091	0.016649

PGBD1	9.11E-04	Log-rank	P=0.00091	0.016649
HSP90AB1	9.11E-04	Log-rank	P=0.00091	0.016649
SNX3	9.11E-04	Log-rank	P=0.00091	0.016649
MYB	9.11E-04	Log-rank	P=0.00091	0.016649
MTHFD1L	9.11E-04	Log-rank	P=0.00091	0.016649
EZR	9.11E-04	Log-rank	P=0.00091	0.016649
CCR6	9.11E-04	Log-rank	P=0.00091	0.016649
DEFB135	9.11E-04	Log-rank	P=0.00091	0.016649
CHRNA2	9.11E-04	Log-rank	P=0.00091	0.016649
KCNU1	9.11E-04	Log-rank	P=0.00091	0.016649
FGFR1	9.11E-04	Log-rank	P=0.00091	0.016649
NSMAF	9.11E-04	Log-rank	P=0.00091	0.016649
PTDSS1	9.11E-04	Log-rank	P=0.00091	0.016649
EBAG9	9.11E-04	Log-rank	P=0.00091	0.016649
DEPTOR	9.11E-04	Log-rank	P=0.00091	0.016649
TBC1D31	9.11E-04	Log-rank	P=0.00091	0.016649
WAC	9.11E-04	Log-rank	P=0.00091	0.016649
RET	9.11E-04	Log-rank	P=0.00091	0.016649
PHYHIPL	9.11E-04	Log-rank	P=0.00091	0.016649
MICU1	9.11E-04	Log-rank	P=0.00091	0.016649
POLR3A	9.11E-04	Log-rank	P=0.00091	0.016649
HTR7	9.11E-04	Log-rank	P=0.00091	0.016649
TNKS2	9.11E-04	Log-rank	P=0.00091	0.016649
BTAF1	9.11E-04	Log-rank	P=0.00091	0.016649
NOC3L	9.11E-04	Log-rank	P=0.00091	0.016649
PYROXD2	9.11E-04	Log-rank	P=0.00091	0.016649
CNNM1	9.11E-04	Log-rank	P=0.00091	0.016649
LZTS2	9.11E-04	Log-rank	P=0.00091	0.016649
KCNIP2	9.11E-04	Log-rank	P=0.00091	0.016649
SEC23IP	9.11E-04	Log-rank	P=0.00091	0.016649
TH	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF408	9.11E-04	Log-rank	P=0.00091	0.016649
SLC22A6	9.11E-04	Log-rank	P=0.00091	0.016649
HRASLS5	9.11E-04	Log-rank	P=0.00091	0.016649
POLD3	9.11E-04	Log-rank	P=0.00091	0.016649
GAB2	9.11E-04	Log-rank	P=0.00091	0.016649
HEPHL1	9.11E-04	Log-rank	P=0.00091	0.016649
KDELC2	9.11E-04	Log-rank	P=0.00091	0.016649
NLRX1	9.11E-04	Log-rank	P=0.00091	0.016649
ROBO4	9.11E-04	Log-rank	P=0.00091	0.016649
TNFSF11	9.11E-04	Log-rank	P=0.00091	0.016649
SERPINE3	9.11E-04	Log-rank	P=0.00091	0.016649
GPC5	9.11E-04	Log-rank	P=0.00091	0.016649
RASA3	9.11E-04	Log-rank	P=0.00091	0.016649

STRN3	9.11E-04	Log-rank	P=0.00091	0.016649
EAPP	9.11E-04	Log-rank	P=0.00091	0.016649
CLEC14A	9.11E-04	Log-rank	P=0.00091	0.016649
SOS2	9.11E-04	Log-rank	P=0.00091	0.016649
VTI1B	9.11E-04	Log-rank	P=0.00091	0.016649
ALKBH1	9.11E-04	Log-rank	P=0.00091	0.016649
FAM181A	9.11E-04	Log-rank	P=0.00091	0.016649
MARK3	9.11E-04	Log-rank	P=0.00091	0.016649
TTBK2	9.11E-04	Log-rank	P=0.00091	0.016649
ICE2	9.11E-04	Log-rank	P=0.00091	0.016649
DPP8	9.11E-04	Log-rank	P=0.00091	0.016649
TBC1D21	9.11E-04	Log-rank	P=0.00091	0.016649
SIN3A	9.11E-04	Log-rank	P=0.00091	0.016649
ACSBG1	9.11E-04	Log-rank	P=0.00091	0.016649
LINS1	9.11E-04	Log-rank	P=0.00091	0.016649
NUBP2	9.11E-04	Log-rank	P=0.00091	0.016649
TIGD7	9.11E-04	Log-rank	P=0.00091	0.016649
RBFOX1	9.11E-04	Log-rank	P=0.00091	0.016649
MYH11	9.11E-04	Log-rank	P=0.00091	0.016649
RABEP2	9.11E-04	Log-rank	P=0.00091	0.016649
KCTD19	9.11E-04	Log-rank	P=0.00091	0.016649
NFATC3	9.11E-04	Log-rank	P=0.00091	0.016649
USP14	9.11E-04	Log-rank	P=0.00091	0.016649
ANKRD30B	9.11E-04	Log-rank	P=0.00091	0.016649
NARS	9.11E-04	Log-rank	P=0.00091	0.016649
MFSD12	9.11E-04	Log-rank	P=0.00091	0.016649
MRPL54	9.11E-04	Log-rank	P=0.00091	0.016649
TNFAIP8L1	9.11E-04	Log-rank	P=0.00091	0.016649
ADAMTS10	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF490	9.11E-04	Log-rank	P=0.00091	0.016649
MRI1	9.11E-04	Log-rank	P=0.00091	0.016649
AKAP8L	9.11E-04	Log-rank	P=0.00091	0.016649
WIZ	9.11E-04	Log-rank	P=0.00091	0.016649
MYO9B	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF730	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF829	9.11E-04	Log-rank	P=0.00091	0.016649
DYRK1B	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF780A	9.11E-04	Log-rank	P=0.00091	0.016649
XRCC1	9.11E-04	Log-rank	P=0.00091	0.016649
SNRPD2	9.11E-04	Log-rank	P=0.00091	0.016649
INAFM1	9.11E-04	Log-rank	P=0.00091	0.016649
BCL2L12	9.11E-04	Log-rank	P=0.00091	0.016649
ZNF583	9.11E-04	Log-rank	P=0.00091	0.016649
PCED1A	9.11E-04	Log-rank	P=0.00091	0.016649

TTI1	9.11E-04	Log-rank	P=0.00091	0.016649
SEMG2	9.11E-04	Log-rank	P=0.00091	0.016649
NCOA5	9.11E-04	Log-rank	P=0.00091	0.016649
AURKA	9.11E-04	Log-rank	P=0.00091	0.016649
SRMS	9.11E-04	Log-rank	P=0.00091	0.016649
BID	9.11E-04	Log-rank	P=0.00091	0.016649
RGL4	9.11E-04	Log-rank	P=0.00091	0.016649
RNF185	9.11E-04	Log-rank	P=0.00091	0.016649
NDUFA6	9.11E-04	Log-rank	P=0.00091	0.016649
JADE3	9.11E-04	Log-rank	P=0.00091	0.016649
UBQLN2	9.11E-04	Log-rank	P=0.00091	0.016649
RTL5	9.11E-04	Log-rank	P=0.00091	0.016649
PGAM4	9.11E-04	Log-rank	P=0.00091	0.016649
POU3F4	9.11E-04	Log-rank	P=0.00091	0.016649
F8	9.11E-04	Log-rank	P=0.00091	0.016649
LBR	9.11E-04	Log-rank	P=0.00091	0.016649
DCHS2	0.002179	Log-rank	P=0.0022	0.039641

OS, overall survival.