

**Supplementary Table 2:** Genes included in the sorafenib sensitivity signature

Rank	Symbol	Gene Name	Direction	Spearman rho	Spearman P-value
1	GRP	Gastrin-releasing peptide	Sensitivity	-0.46	8.07E-05
2	ACSF2	Acyl-CoA synthetase family member 2	Resistance	0.46	8.59E-05
3	EDN1	Endothelin 1	Resistance	0.46	8.60E-05
4	C7orf59	Chromosome 7 open reading frame 59	Sensitivity	-0.46	8.64E-05
5	CD55	CD55 molecule, decay accelerating factor for complement	Resistance	0.44	1.45E-04
6	ALG14*	Asparagine-linked glycosylation 14 homolog ( <i>S. cerevisiae</i> )	Sensitivity	-0.44	1.73E-04
7	COL12A1	Collagen, type XII, alpha 1	Resistance	0.44	1.82E-04
8	COL19A1	Collagen, type XIX, alpha 1	Sensitivity	-0.44	2.09E-04
9	SH3D19	SH3 domain containing 19	Resistance	0.43	2.20E-04
10	RAP2A	RAP2A, member of RAS oncogene family	Sensitivity	-0.43	2.28E-04
11	PPP1R15A	Protein phosphatase 1, regulatory (inhibitor) subunit 15A	Resistance	0.43	2.91E-04
12	SAT1	Spermidine/spermine N1-acetyltransferase 1	Resistance	0.42	3.31E-04
13	ATP5J*	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit F6	Sensitivity	-0.42	3.46E-04
14	NRIP1	Nuclear receptor interacting protein 1	Resistance	0.42	4.19E-04
15	SFPQ	Splicing factor proline/glutamine-rich	Sensitivity	-0.42	4.23E-04
16	REV1	REV1 homolog ( <i>S. cerevisiae</i> )	Resistance	0.41	4.45E-04
17	MAPRE2	Microtubule-associated protein, RP/EB family, member 2	Sensitivity	-0.41	4.98E-04
18	SRA1	Steroid receptor RNA activator 1	Sensitivity	-0.41	4.99E-04
19	PGAM5	Phosphoglycerate mutase family member 5	Sensitivity	-0.41	5.14E-04
20	IGFBP7	Insulin-like growth factor binding protein 7	Resistance	0.41	5.20E-04
21	GPRC5A	G protein-coupled receptor, family C, group 5, member A	Resistance	0.41	5.21E-04
22	MRPS16	Mitochondrial ribosomal protein S16	Sensitivity	-0.41	5.95E-04
23	RBM14	RNA binding motif protein 14	Sensitivity	-0.41	5.96E-04
24	CD47	CD47 molecule	Resistance	0.41	6.05E-04
25	ARHGAP24	Rho GTPase activating protein 24	Resistance	0.40	6.14E-04
26	ACTL7B	Actin-like 7B	Resistance	0.40	6.40E-04
27	CACNA1H*	Calcium channel, voltage-dependent, T type, alpha 1H subunit	Sensitivity	-0.40	7.04E-04

28	EFEMP1	EGF-containing fibulin-like extracellular matrix protein 1	Resistance	0.40	7.08E-04
29	C15orf32	Chromosome 15 open reading frame 32	Sensitivity	-0.40	7.35E-04
30	OR8K1	Olfactory receptor, family 8, subfamily K, member 1	Resistance	0.40	7.38E-04
31	PPARG	Peroxisome proliferator-activated receptor gamma	Resistance	0.40	7.73E-04
32	ALDH1A3	Aldehyde dehydrogenase 1 family, member A3	Resistance	0.40	7.82E-04
33	BOLA2	BolA homolog 2 (E. coli)	Sensitivity	-0.40	8.07E-04
34	SYTL2	Synaptotagmin-like 2	Resistance	0.40	8.27E-04
35	FGF1	Fibroblast growth factor 1 (acidic)	Resistance	0.40	8.49E-04
36	AIFM1	Apoptosis-inducing factor, mitochondrion-associated, 1	Sensitivity	-0.39	8.89E-04
37	CLPB	ClpB caseinolytic peptidase B homolog (E. coli)	Sensitivity	-0.39	9.01E-04
38	LRRC8A	Leucine rich repeat containing 8 family, member A	Resistance	0.39	9.34E-04
39	MUC6	Mucin 6, oligomeric mucus/gel-forming	Resistance	0.39	9.53E-04
40	DPP3	Dipeptidyl-peptidase 3	Sensitivity	-0.39	9.70E-04
41	RNF41	Ring finger protein 41	Sensitivity	-0.39	9.82E-04
42	MAFF	V-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	Resistance	0.39	9.92E-04
43	BARX1	BARX homeobox 1	Sensitivity	-0.39	1.02E-03
44	C9orf150	Chromosome 9 open reading frame 150	Resistance	0.39	1.03E-03
45	KIAA0564	KIAA0564	Sensitivity	-0.39	1.04E-03
46	FAM3B	Family with sequence similarity 3, member B	Sensitivity	-0.39	1.04E-03
47	CFH	Complement factor H	Resistance	0.39	1.04E-03

\*ALG14, ATP5J and CACNA1H were represented by 2 Illumina probes; the most significant probe is shown in the table.