

Table S1: Gene glossary.

Gene Symbol	Official Full Name	Gene ID
<i>ALDH1A1 (ALDH1)</i>	Aldehyde dehydrogenase 1 family member A1	216
<i>ALDH1A3</i>	Aldehyde dehydrogenase 1 family member A3	220
<i>ALDH1L1</i>	Aldehyde dehydrogenase 1 family member L1	10840
<i>ALK</i>	ALK receptor tyrosine kinase	238
<i>AKT (AKT1)</i>	AKT serine/threonine kinase 1	207
<i>APC</i>	APC regulator of WNT signaling pathway	324
<i>ARID1A</i>	AT-rich interaction domain 1A	8289
<i>CCNE1</i>	Cyclin E1	898
<i>CD133 (PROM1)</i>	Prominin 1	8842
<i>CD166 (ALCAM)</i>	Activated leukocyte cell adhesion molecule	214
<i>CD44</i>	CD44 molecule	960
<i>CDH1</i>	Cadherin 1	999
<i>c-FLIP (CFLAR)</i>	CASP8 and FADD like apoptosis regulator	8837
<i>E2F1</i>	E2F transcription factor 1	1869
<i>EGFR</i>	Epidermal growth factor receptor	1956
<i>ERBB2 (HER2)</i>	erb-b2 receptor tyrosine kinase 2	2064
<i>ERCC1</i>	ERCC excision repair 1, endonuclease non-catalytic subunit	2067
<i>HMMR (CD168)</i>	Hyaluronan mediated motility receptor	3161
<i>JAK2</i>	Janus kinase 2	3717
<i>Klf4</i>	Kruppel-like factor 4	16600
<i>KRAS</i>	KRAS proto-oncogene, GTPase	3845
<i>LGR5</i>	Leucine rich repeat containing G protein-coupled receptor 5	8549
<i>MLH1</i>	mutL homolog 1	4292
<i>MTOR</i>	Mechanistic target of rapamycin kinase	2475
<i>MYC</i>	MYC proto-oncogene, bHLH transcription factor	4609
<i>PD-1 (PDCD1)</i>	Programmed cell death 1	5133
<i>PD-L1 (CD274)</i>	CD274 molecule	29126
<i>PD-L2 (PDCD1LG2)</i>	Programmed cell death 1 ligand 2	80380
<i>PIK3CA</i>	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	5290
<i>PLK1</i>	Polo like kinase 1	5347
<i>RHOA</i>	RAS homolog family member A	387
<i>RIF1</i>	Replication timing regulatory factor 1	55183
<i>RSK1 (RPS6KA1)</i>	Ribosomal protein S6 kinase A1	6195
<i>SMAD4</i>	SMAD family member 4	4089
<i>Sox2</i>	SRY (sex determining region Y)-box 2	20674
<i>TP53</i>	Tumor protein p53	7157
<i>UBE2 (UBA7)</i>	Ubiquitin like modifier activating enzyme 7	7318
<i>VEGFR2 (KDR)</i>	Kinase insert domain receptor	3791