

Supplementary Materials

Table S1. Genes correlated with survival fraction after 2-Gy radiation in HPV-negative head and neck squamous cell carcinoma cell lines

	Gene symbol	Gene name	AUC	Fold change	Correlation coefficient	p-value
6 genes increased in radioresistant cell lines	CD200R1	CD200 receptor 1	1	4.598	0.911	0.001
	TAS2R8	taste 2 receptor member 8	1	23.873	0.907	0.001
	CR1L	complement C3b/C4b receptor 1 like	1	7.561	0.883	0.002
	IL9R	interleukin 9 receptor	1	5.688	0.758	0.018
	KRT8	keratin 8	1	12.024	0.698	0.037
	TXNRD1	thioredoxin reductase 1	1	4.568	0.690	0.040
35 genes decreased in radioresistant cell lines	CCDC102B	coiled-coil domain containing 102B	1	17.674	-0.894	0.001
	KIRREL2	kirre like nephrin family adhesion molecule 2	1	31.715	-0.894	0.001
	ART3	ADP-ribosyltransferase 3	1	12.633	-0.868	0.002
	IFLTD1	intermediate filament tail domain-containing protein 1	1	27.258	-0.866	0.003
	PDLIM4	PDZ and LIM domain 4	1	5.143	-0.851	0.004
	KLHDC7B	kelch domain containing 7B	1	6.759	-0.843	0.004
	KHDRBS3	KH RNA binding domain containing, signal transduction associated 3	1	6.607	-0.826	0.006
	GAL3ST4	galactose-3-O-sulfotransferase 4	1	6.527	-0.826	0.006
	PGBD5	piggyBac transposable element derived 5	1	21.566	-0.826	0.006
	ALDH2	aldehyde dehydrogenase 2 family member	1	5.991	-0.826	0.006
	ZNF71	zinc finger protein 71	1	77.278	-0.800	0.010
	ALOX12	arachidonate 12-lipoxygenase, 12S type	1	4.375	-0.792	0.011
	B4GALNT3	beta-1,4-N-acetyl-galactosaminyltransferase 3	1	7.837	-0.783	0.013
	TNFRSF10C	TNF receptor superfamily member 10c	1	5.801	-0.783	0.013
	HSPB2	heat shock protein family B (small) member 2	1	24.605	-0.079	0.013
	LTBP1	latent transforming growth factor beta binding protein 1	1	9.446	-0.775	0.014
SLC7A8	solute carrier family 7 member 8	1	98.198	-0.775	0.014	

SIRPA	signal regulatory protein alpha	1	5.398	-0.775	0.014
SCARF2	scavenger receptor class F member 2	1	9.537	-0.758	0.018
SEPT5	septin 5	1	6.320	-0.758	0.018
GIMAP6	GTPase, IMAP family member 6	1	175.767	-0.757	0.018
SIGLEC15	sialic acid binding Ig like lectin 15	1	5.720	-0.744	0.022
CXCL10	C-X-C motif chemokine ligand 10	1	74.442	-0.741	0.022
PCDHB9	protocadherin beta 9	1	8.076	-0.741	0.022
PAMR1	peptidase domain containing associated with muscle regeneration 1	1	4.836	-0.732	0.025
DAND5	DAN domain BMP antagonist family member 5	1	8.506	-0.732	0.025
CDHR1	cadherin related family member 1	1	428.331	-0.732	0.025
CPS1	carbamoyl-phosphate synthase 1	1	15.871	-0.724	0.025
VSTM2L	V-set and transmembrane domain containing 2 like	1	114.918	-0.715	0.028
ROS1	ROS proto-oncogene 1, receptor tyrosine kinase	1	318.110	-0.715	0.030
RTN4RL2	reticulon 4 receptor like 2	1	11.152	-0.707	0.033
WNT11	Wnt family member 11	1	128.523	-0.707	0.033
CXCL11	C-X-C motif chemokine ligand 11	1	143.024	-0.672	0.047
PID1	phosphotyrosine interaction domain containing 1	1	6.382	-0.672	0.047
C10orf99	chromosome 10 open reading frame 99	1	138.221	-0.667	0.050

HPV, human papillomavirus; AUC, area under the receiver operating characteristic curve.