

Suppl Table 1. Seed heptamers from the analyzed 4 RNAi libraries.

1; Silencer Select, 2; MSK, 3; Druggable Genome, 4; TRC 1.0, ND; Not defined.

*Only 100 targets shown.

Seed Heptamer	RNAi Library	# of miRNAs	Family	miRbase ID	miRNA sequence		Validated targets
AAAGTAA	3, 4	12	mir-559	MIMAT0003223	TAAAGTAAATATGCACCAAAA	(4)	ERBB2, VCL, MTA1, MTA2
			mir-548	MIMAT0004798	AAAAGTAA TTGTGGTTTTGGCC		Unk
			mir-548	MIMAT0004803	AAAAGTAA TTGCGAGTTTTACC		Unk
			mir-548	MIMAT0004806	AAAAGTAA TTGCGGTTTTTGCC		Unk
			mir-548	MIMAT0004812	AAAAGTAA TTGTGGTTTTTGCC		Unk
			mir-548	MIMAT0005875	AAAAGTAA TTGCGGTCTTTGGT		Unk
			mir-548	MIMAT0005928	AAAAGTAA TCGCGGTTTTTGTC		Unk
			mir-548	MIMAT0005935	AAAAGTAA TTGCGGATTTTGCC		Unk
			mir-548	MIMAT0015060	AAAAGTAA CTGCGGTTTTTGCCCT		Unk
			mir-548	MIMAT0018354	AAAAGTAA TCACTGTTTTTGCC		Unk
			mir-548	MIMAT0018928	AAAAGTAA TTGTGGATTTTGCT		Unk
			mir-548	MIMAT0019013	AAAAGTAA CTGCGGTTTTTGA		Unk
AAGTGCT	1, 2, 4	12	mir-302	MIMAT0000684	TAAGTGCTTCCATGTTTTGGTGA	(6)	TAC1, CDK4, CCND1, LEFTY1, CDKN1A, LEFTY2
			mir-302	MIMAT0000715	TAAGTGCTTCCATGTTTTAGTAG	(3)	BMI1, CCND2, TP63
			mir-302	MIMAT0000717	TAAGTGCTTCCATGTTTCAGTGG	(2)	ESR1, CCND1
			mir-302	MIMAT0000718	TAAGTGCTTCCATGTTTGAGTGT	(10)	TRPS1, KLF13, MBNL2, EGFA, CDK2, CCND2, NR4A2, EFTY1, LEFTY2, ERBB4

mir-290	MIMAT0000724	AAAGTGCTGCGACATTTGAGCGT		LATS2, CDKN1A, VEGFA, KLF13, MBNL2, TRPS1, NR4A2, ERBB4			
mir-373	MIMAT0000726	GAAGTGCTTCGATTTTGGGGTGT	(95)	MARCH4, SEPT2, ADAM9, ANKRD13B, AOF1, ARHGEF3, BAZ1A, C11orf15, C12orf23, C13orf27, C20orf142, C2orf18, C5orf5, C9orf78, CD24, CD24P4, CD44, CD83, CDK11, CDK19, CENPF, CFL2, CKLFSF4, CMTM4, CNOT6, CSDC2, CYB5R4, EG1, FAM13B, FLJ25555, FLJ34236, FYCO1, GBAS, GBP3, GLTP, GPM2, HERPUD1, HSPA14, INSIG2, KIAA1194, KIAA1399, KIAA1919, KIF23, KLHL12, LATS2, LMNB1, LOC149420, LOC51035, LOC93081, LUC7L2, MGC17943, MGC29898, MICA, MKRN1, MRE11A, MYBL1, NCB5OR, NEDD5, NIN, NUPL1, PACRGL, PBK, PCGF5, PDIK1L, PHC2, PRC1, RABEP1, RAD23B, RAD52, RECK, RELA, RNF149, RNF159, RPIA, SLC25A23, STK4, STX11, TBC1D2, TFAP4, TMEM14A, TMEM9B, TNFAIP1, TOPK, TTC8, TUSC2, TXNIP, UBXN1, USP12, VEGFA, VPS26, VPS26A, XM_034274, XPA, ZHX1, ZNF226			
mir-515	MIMAT0002825	AAAGTGCTTCCTTTTTGAGGG	(1)	CD46			
mir-515	MIMAT0002834	AAAGTGCTTCCCTTTGGACTGT	(1)	CDKN1A			
mir-515	MIMAT0002843	AAAGTGCTTCCTTTTAGAGGG	(3)	CD46, CDKN1A, MICA			
mir-515	MIMAT0002846	AAAGTGCTTCCTTTTAGAGGGT	(2)	APP, CD44			
mir-515	MIMAT0002856	AAAGTGCTTCTCTTTGGTGGGT		Unk			
mir-302_2	MIMAT0005931	TAAGTGCTTCCATGCTT		Unk			
TCTAGAG	1, 2, 3, 4	10	mir-515	MIMAT0002831	CTCTAGAGGGAAGCGCTTTCTG		Unk

mir-515	MIMAT0005454	CTCTAGAGGGAAGCGCTTTCTG	Unk
mir-515	MIMAT0005449	CTCTAGAGGGAAGCGCTTTCTG	Unk
mir-515	MIMAT0002841	CTCTAGAGGGAAGCACTTTCTC	Unk
mir-515	MIMAT0002845	CTCTAGAGGGAAGCACTTTCTG	Unk
mir-515	MIMAT0005455	CTCTAGAGGGAAGCACTTTCTG	Unk
mir-515	MIMAT0005450	CTCTAGAGGGAAGCGCTTTCTG	Unk
mir-515	MIMAT0005456	CTCTAGAGGGAAGCACTTTCTG	Unk
mir-515	MIMAT0005451	CTCTAGAGGGAAGCGCTTTCTG	Unk
mir-515	MIMAT0005452	CTCTAGAGGGAAGCGCTTTCTG	Unk

GAGGTAG	1, 2, 3	11	let-7	MIMAT0000062	TGAGGTAGTAGGTTGTATAGTT	(53)	AMMECR1, APP, BCL2, CASP3, CASP8, CASP9, caspase-3, CCND2, CDC25A, CDK6, c-MYC, DICER1, E2F1, E2F2, EGR3, EIF2C4, FOXA1, HMGA1, HMGA2, HNRPDL, HRAS, IGF2, IGF-II, IL6, integrinbeta, ITGB3, KRAS, LIN28A, lin-41, MEIS1, MYC, NEFM, NF2, NFKB1, NIRF, NKIRAS2, NR1I2, NRAS, p27, PRDM1, PRDM1/Blimp-1, RAS, RAVR2, SLC20A1, THBS1, TRIM71, trim71, TUSC2, UHRF2, VDR, WAF1, wech, ZFP36L1
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let-7	MIMAT0000063	TGAGGTAGTAGGTTGTGTGGTT	(468)*	A2BP1, AARSD1, ABCB10, ABCC1, ACACA, ACPP, ACSL1, ACTG1, AGL, AHCTF1, AKAP8, AKR1A1, ALG3, ANAPC1, ANKZF1, ANP32E, ANXA8, ANXA8L1, ANXA8L2, APRT, ARCN1, ARFIP2, ARHGAP17, ARID3A, ARL15, ASCC3, ATAD3B, ATG4B, ATG9A, ATP2A2, ATP6V0A1, ATP6V1F, AURKA, AURKB, BAG5, BAT2, BAZ1A, BAZ1B, BCL7A, BIRC6, BZW2, C10orf57, C11orf2, C12orf30, C13orf1, C15orf44, C1orf128, C1orf27, C20orf72, C2orf18, C2orf56, C6orf167, C7orf58, C8orf30A, CA12, CALCOCO2, CAPG, CARHSP1, CBF, CCBL2, CCDC115, CCDC134, CCNA1, CCNA2, CCND1, CCND2, CCNF, CCNJ, CCNK, CCNY, CDC25A, CDC34, CDC91L1, CDCA7, CDCA8, CDIPT, CDK6, CDKAL1, CENPB, CENPV, CHAF1A, CHD1, CHD3, CHD4, CHMP2A, CHPF2, CHRAC1, CIAO1, CLPX, CMC1, CNDP2, COIL, COMMD9, COPG, COPS2, COX7B, CPSF1, CPSF3L, CRKL, CS
let-7	MIMAT0000064	TGAGGTAGTAGGTTGTATGGTT	(7)	MYC, RIM71, HMGA2, DICER1, TGFBR1, BCL2L1, NRAS

let-7	MIMAT0000065	AGAGGTAGTAGGTTGCATAGTT	(93)	ABT1, ADCY9, AKAP8, APP, ARID3A, ARRDC4, BCL2, BDNF, BIN3, BUB3, C11orf57, C9orf41, CALCOCO2, CBR4, CDC25A, CDK6, CEP120, CPNE1, D3R, DICER1, DLC1, ERC1, ESPL1, FAM104A, FAM135A, FAM159B, FBXO3, GLMN, GOLT1B, GPR137B, GPR63, HAND1, HMGA2, HOMER1, IGDCC4, IGF1R, IGF2BP1, IGF2BP3, IL-13, ISL1, KATNAL1, KIAA1219, KPNA5, KRAS, LARP5, LBR, LIN28B, LIN52, MEX3A, MLL, NAT5, NHLRC3, NR4A1, ONECUT2, PCGF3, PCNP, PDGFA, POLR2D, RAD9A, RAS, RFX5, RPUSD2, SFRS12, SLC10A7, SLC11A2, SLC20A1, SLC30A6, SMARCAD1, SMCR7L, SPATA2, SPRYD4, STK40, TBC1D9B, TGFBR1, THBS1, TLE4, TMED4, TMEM135, TMEM194A, TMEM2, TMTC3, TNRC6A, TOMM20, TST, USP24, ZBTB24, ZBTB39, ZNF200, ZNF280B, ZNF354B, ZNF526, ZNF644, ZNF763
let-7	MIMAT0000066	TGAGGTAGGAGGTTGTATAGTT	(8)	SMC1A, EIF3S1, YCN , HMGA2,DAD1, RABGAP1L, EIF3J, WNT1
let-7	MIMAT0000067	TGAGGTAGTAGATTGTATAGTT	(16)	BCL2L1, Bmi-1, CDC25A, CDK6, CDKN2A, c-MYC, COL1A2, HMGA2, IGF2BP1, IL-13, IMP-1, INK4A, KRAS, MDR1, MYC, RAS
let-7	MIMAT0000096	TGAGGTAGTAAGTTGTATTGTT	(19)	E2F2, MYC, E2F1, NCOA3, TUSC2, HMGA2, ZFP36L1, ZMPSTE24, THBS1, SERP1, SLC20A1, MEIS1, CNOT4, HNRPDL, AMMECR1, CBX5, CHRN1, ACADM, SOCS4
let-7	MIMAT0000414	TGAGGTAGTAGTTTGTACAGTT		Unk
let-7	MIMAT0000415	TGAGGTAGTAGTTTGTGCTGTT	(9)	BMP2K, CSN1, CSN6, CSN8, DAD1, EIF4G2, FANCD2, IL-13, TLR4
ND	MIMAT0018980	AGAGGTAGGTGTGGAAGAA		Unk
ND	MIMAT0019036	TGAGGTAGTAGTTTCTT		Unk

Suppl Table 2. OTE filtering analysis for the arrayed shRNA screening data published by Barbie.

Seed heptamers within the miRNA sequences are highlighted in red.

W; KRAS-wild type, M; KRAS-mutant.

Type	Seed heptamer	Targets in screening library	Cell lines	miRbase ID	miRNA sequence
W & M	TGAGGGC	1 VRK2	3 PC3, RPMI-8226, U87	MIMAT0005576	GTGAGGGC ATGCAGGCCTGGATGGGG
W	CAGGTGA	1 HGS	1 MDA-MB-453	MIMAT0004602	ACAGGTG AGGTTCTTGGGAGCC
W	TGAAGCT	1 RPS6KA2	1 LNCAP	MIMAT0004604	CTGAAGCT CAGAGGGCTCTGAT
W & M	TGCTTGA	2 MAP3K12, MYO3B	7 A549, LN229, MCF7, MDA-MB-231, NOMO-1, OVCAR8, U87	MIMAT0018079	TTGCTTGA ACCCAGGAAGTGGA
W	TCACATT	1 WNK1	1 THP-1	MIMAT0004593	TCACATT GTGCTACTGTCTGC
W	TATTGCT	1 CC2D1A	1 LNCAP	MIMAT0000429	TTATTGCT TAAGAATACGCGTAG
W	AACACTG	1 SDHD	1 U87	MIMAT0000432	TAACTGT TCTGGTAAAGATGG
M	TGTGTGG	1 KIAA1446	1 A549	MIMAT0000251	GTGTGTGG AAATGCTTCTGC
W	TTGGCAA	1 LIMK2	1 T47D	MIMAT0000259	TTGGCAA TGGTAGAACTCACACT
W	AACACTG	1 SDHD	1 U87	MIMAT0000682	TAACTGT TCTGGTAAACGATGT
W & M	AATACTG	1 PLCB2	4 HCT-116, LN229, RPMI-8226, TOV21G	MIMAT0000318	TAATACTG CCTGGTAATGATGA
W & M	AATACTG	1 PLCB2	4 HCT-116, LN229, RPMI-8226, TOV21G	MIMAT0000617	TAATACTG CCGGGTAATGATGGA
W	ATTTTCAG	1 SMG1	1 THP-1	MIMAT0009197	GATTTTCAG TGGAGTGAAGTTC
W	CTGTAGT	1 AMHR2	1 LNCAP	MIMAT0004752	ACTGTAGT ATGGGCACTTCCAG
M	AACACCA	1 THBS1	1 DLD-1	MIMAT0004494	CAACACCA GTCGATGGGCTGT
M	CAGCAGG	1 TRPV6	1 NOMO-1	MIMAT0000271	ACAGCAGG CACAGACAGGCAGT
W	TGTGCTT	1 CDK10	1 Fibroblast	MIMAT0000275	TTGTGCTT GATCTAACCATGT
W	AAGTCAC	1 EEF2K	1 U87	MIMAT0000281	CAAGTCAC TAGTGGTTCCGTT
W & M	AAATGGT	2 NEK10, SCYL3	2 786-O, NOMO-1	MIMAT0009198	AAAATGGT GCCCTAGTGACTACA
W	TTGTCCT	1 CPNE1	1 MDA-MB-453	MIMAT0017950	ATTGTCCT TGCTGTTTGGAGAT
W	TCACATT	1 WNK1	1 THP-1	MIMAT0000078	ATCACATT GCCAGGGATTTC
W	TCACATT	1 WNK1	1 THP-1	MIMAT0000418	ATCACATT GCCAGGGATTACC
W	TCACATT	1 WNK1	1 THP-1	MIMAT0018000	ATCACATT GCCAGTGATTACCC
W & M	CTGTTCT	2 CDC42SE2, NEK3	3 Fibroblast, LNCAP, TOV21G	MIMAT0004500	CCTGTTCT CCACTTGGCTC
W	TCACAGT	1 IHPK2	1 PC3	MIMAT0000084	TCACAGT GGCTAAGTTCCGC
W	TCACAGT	1 IHPK2	1 PC3	MIMAT0000419	TCACAGT GGCTAAGTTCTGC
W	TGTATGT	1 PCTK1	1 MCF7	MIMAT0004450	ATGTATGT GTGCATGTGCATG

W	TTTCAGT	1	PRKACA	1	MCF7	MIMAT0000088	CTTTCAGTCGGATGTTTGCAGC
W	TTTCAGT	1	PRKACA	1	MCF7	MIMAT0004551	CTTTCAGTCAGATGTTTGTCTGC
W	TTTCAGT	1	PRKACA	1	MCF7	MIMAT0000693	CTTTCAGTCGGATGTTTACAGC
W	ACAGCAA	1	PPM1F	1	LNCAP	MIMAT0014982	CACAGCAAGTGTAGACAGGCA
W	CTGGCAA	1	INPP4B	1	786-O	MIMAT0014991	TCTGGCAAGTAAAAACTCTCAT
W	GAGGAGA	1	GNB2L1	1	PC3	MIMAT0018194	TGAGGAGATCGTCGAGGTTGG
W & M	AGGGCTT	1	VRK2	2	RPMI-8226, U87	MIMAT0015032	AAGGGCTTCCTCTCTGCAGGAC
W	GAGGCTT	1	STK36	1	LNCAP	MIMAT0015070	AGAGGCTTTGTGCGGATACGGGG
W	CTCTGGG	2	MAP2K6, SYT11	2	LNCAP, PC3	MIMAT0000756	CCTCTGGGCCCTTCTCCAG
W	CTCTGGG	2	MAP2K6, SYT11	2	LNCAP, PC3	MIMAT0004693	TCTCTGGGCCTGTGTCTTAGGC
W	AATCACT	1	PAK2	1	Fibroblast	MIMAT0004676	CAATCACTAACTCCACTGCCAT
M	AACACCA	1	THBS1	1	DLD-1	MIMAT0019877	AAACACCATTTGTCACACTCCAC
W	CATGTGA	1	GUCY2D	1	PC3	MIMAT0017984	GCATGTGATGAAGCAAATCAGT
W	GGAGGCA	1	NEK3	2	Fibroblast, LNCAP	MIMAT0017989	AGGAGGCACTTTGAGAAATGGA
W	TGAAGTG	1	PDK2	3	Fibroblast, HMEC-TERT, PC3	MIMAT0017995	ATGAAGTGCACTCATGATATGT
M	CAGCAGG	1	TRPV6	1	NOMO-1	MIMAT0017999	TCAGCAGGCAGGCTGGTGCAGC
W	TGAAGTG	1	PDK2	3	Fibroblast, HMEC-TERT, PC3	MIMAT0018066	CTGAAGTGATGATTCACATTCAT
W & M	TACTTCT	2	CSNK1E, RXRG	9	786-O, DLD-1, HCT-116, MCF7, MDA-MB-231, NOMO-1, OVCAR8, RPMI-8226, TOV21G	MIMAT0019222	CTACTTCTACCTGTGTTATCAT
W	AAGGCAG	1	ORK2	1	U87	MIMAT0018165	GAAGGCAGCAGTGCTCCCCTGT
M	ATGTAAT	1	PRKDC	4	A549, DLD-1, NOMO-1, TOV21G	MIMAT0000735	TATGTAATATGGTCCACATCTT
W	TGAGGAA	1	MAGI3	1	HMEC-TERT	MIMAT0018189	TTGAGGAAAGATGGTCTTATT
W	AAGGTCA	2	AKAP6, IKBKE	2	786-O, T47D	MIMAT0019359	AAAGGTCAATTGTAAGGTTAATGC
W	AATGTTG	2	DCK, ITSN2	4	786-O, LN229, MCF7, T47D	MIMAT0001639	GAATGTTGCTCGGTGAACCCCT
W & M	CCAGCTC	1	RXRG	2	DLD-1, OVCAR8	MIMAT0016893	TCCAGCTCGGTGGCAC
W	CAGGCAC	1	PLAUR	1	T47D	MIMAT0016897	GCAGGCACAGACAGCCCTGGC
W & M	TCAGTGA	1	RIPK5	2	HMEC-TERT, MDA-MB-231	MIMAT0016904	CTCAGTGACTCATGTGC
W & M	AATACTG	1	PLCB2	4	HCT-116, LN229, RPMI-8226, TOV21G	MIMAT0001536	TAATACTGTCTGGTAAAACCGT
W	CAGCATT	1	PLAUR	1	T47D	MIMAT0016862	GCAGCATTATGTCCC
W	TCTGGGA	1	PSKH1	1	OVCAR8	MIMAT0016868	CTCTGGGAAATGGGACAG
W	TCCACTT	2	EXT2, GSC	2	Fibroblast, LNCAP	MIMAT0019940	GTCCACTTCTGCCTGCCCTGCC
W	TGAATTC	1	HGS	1	MDA-MB-453	MIMAT0018974	TTGAATTC TTGGCCTTAAGTGAT

W	GGCAAAC	1	LIMK2	1	T47D	MIMAT0018997	TGGCAAACGTGGAAGCCGAGA
W	TGTGGCT	1	CDKL2	2	HMEC-TERT, LNCAP	MIMAT0019001	TTGTGGCTGGTCATGAGGCTAA
W & M	CTTGAAG	1	MYO3B	5	A549, LN229, NOMO-1, OVCAR8, U87	MIMAT0019692	TCTTGAAGTCAGAACCCGCAA
W	CTGAGGC	1	STK36	1	LNCAP	MIMAT0019712	TCTGAGGCCTGCCTCTCCCCA
M	TTCTGTT	1	THBS1	1	DLD-1	MIMAT0019717	GTTCTGTTAACCCATCCCCTCA
M	TACACAT	1	STK16	1	MDA-MB-231	MIMAT0015002	ATACACATACACGCAACACACAT
M	TACATGT	1	PIK4CB	1	A549	MIMAT0019741	ATACATGTCAGATTGTATGCC
W & M	CTGAGTT	1	PSKH1	4	DLD-1, NOMO-1, OVCAR8, U87	MIMAT0019767	TCTGAGTTCCTGGAGCCTGGTCT
M	GGCTGTT	1	CDC42SE2	1	TOV21G	MIMAT0019775	TGGCTGTTGGAGGGGGCAGGC
W & M	TGAGGAG	2	GNB2L1, ULK1	2	PC3, RPMI-8226	MIMAT0019778	TTGAGGAGACATGGTGGGGGCC
W	CAGCCAC	1	TK1	1	LN229	MIMAT0019782	CCAGCCACGGACTGAGAGTGCAT
W	TCTCCCA	1	ACVR1B	1	LNCAP	MIMAT0019820	TTCTCCCACTACCAGGCTCCCA
W	TCTGCCA	1	MAGI3	1	786-O	MIMAT0019847	ATCTGCCAGCTTCCACAGTGG
W	CAGGCAA	1	RET	1	T47D	MIMAT0019872	TCAGGCAAAGGGATATTTACAGA
W	TCTCTTT	2	PLCG2, SYT4	2	Fibroblast, MCF7	MIMAT0019891	TTCTCTTTCTTTAGCCTTGTGT
W	GCCAGGC	1	RET	1	T47D	MIMAT0019896	AGCCAGGCTCTGAAGGGAAAGT
M	CAGAGAT	1	GCK	1	NOMO-1	MIMAT0019900	CCAGAGATGGTTGCCTTCCTAT
W & M	CAAGGTG	1	FN3KRP	2	DLD-1, LN229	MIMAT0019908	ACAAGGTGTGCATGCCTGACC
W	CAGGAGA	1	STK32C	2	786-O, U87	MIMAT0019921	CCAGGAGATCCAGAGAGAAT
W	TTCTCTC	1	MAP4K2	1	HMEC-TERT	MIMAT0019920	ATTCTCTCTGGATCCCATGGAT
W	CTGCCAT	1	MAGI3	1	HMEC-TERT	MIMAT0019923	TCTGCCATCCTCCCTCCCCTAC
W	TTGCCAT	1	AKAP7	1	LNCAP	MIMAT0019933	CTTGCCATCCTGGTCCACTGCAT
W	ATTCTGT	1	GSK3B	1	MDA-MB-453	MIMAT0019936	AATTCTGTAAAGGAAGAAGAGG
W & M	ATGTTGG	1	EIF2AK3	2	DLD-1, LN229	MIMAT0019943	AATGTTGGAATCCTCGCTAGAG
W	GAGGAGA	1	GNB2L1	1	PC3	MIMAT0019948	TGAGGAGATGCTGGGACTGA
W	TGAAAGG	1	ITPKA	2	786-O, U87	MIMAT0004763	TTGAAAGGCTATTTCTTGGTC
M	TGTACAT	1	PIK4CB	1	A549	MIMAT0002813	TTGTACATGGTAGGCTTTCATT
W	GAAACAT	1	IKBKE	1	T47D	MIMAT0002816	TGAAACATACACGGGAAACCTC
M	TTTCACC	1	HSPA5	2	MDA-MB-231, NOMO-1	MIMAT0020603	GTTTCACCATGTTGGTCAGGC
M	TGTCTTT	1	PRKDC	4	A549, DLD-1, NOMO-1, TOV21G	MIMAT0002808	GTGTCTTTTGCTCTGCAGTCA
W	TCACAGG	1	HGS	1	MDA-MB-453	MIMAT0002877	TTCACAGGGAGGTGTCAT
W	TCTCCAA	1	BMPR2	1	Fibroblast	MIMAT0002826	TTCTCCAAAGAAAGCACTTTCTG
W	GCTTCCT	1	CDKL5	1	LNCAP	MIMAT0006778	TGCTTCCTTTCAGAGGGT
W	TCTGGAG	1	NEK3	2	Fibroblast, LNCAP	MIMAT0002859	ATCTGGAGGTAAGAAGCACTTT
W	GCTTCCT	1	CDKL5	1	LNCAP	MIMAT0002860	TGCTTCCTTTCAGAGGGT

W	TCTCCAA	1	BMP2	1	Fibroblast	MIMAT0002828	TTCTCCAA	AAGGGAGCACTTTC
M	AGTGCTT	1	MAP3K12	1	NOMO-1	MIMAT0002830	AAGTGCTT	CCTTTT
W & M	AAATGGT	2	NEK10, SCYL3	2	786-O, NOMO-1	MIMAT0002868	AAAATGGT	TCCCTTTAGAGTGT
W	GAGAAAT	1	ORK2	1	U87	MIMAT0003163	GGAGAAAT	TATCCTTGGTGTGT
W & M	GTGACAG	1	EIF2AK3	4	Fibroblast, MCF7, MDA-MB-231, PC3	MIMAT0003389	TGTGACAG	ATTGATAACTGAAA
W	AACATTC	1	LRRK2	1	PC3	MIMAT0004954	AAACATTC	GCGGTGCACTTCTT
W	CAGCAAA	1	AXL	1	MCF7	MIMAT0003165	T	CAGCAAA
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0004803	AAAAGTAA	TTGCGAGTTTTACC
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0018928	AAAAGTAA	TTGTGGATTTTGTCT
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0019013	AAAAGTAA	CTGCGTTTTTGA
W	AAAGGCA	1	CABC1	1	MCF7	MIMAT0019079	AAAAGGCA	TTGTGGTTTTTG
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0004798	AAAAGTAA	TTGTGGTTTTGGCC
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0004806	AAAAGTAA	TTGCGTTTTTGGCC
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0004812	AAAAGTAA	TTGTGGTTTTTGGCC
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0005928	AAAAGTAA	TCGCGTTTTTGTCT
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0005935	AAAAGTAA	TTGCGGATTTTGGCC
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0005875	AAAAGTAA	TTGCGGTCTTTGGT
W	TGGCCAA	1	GUCY2D	1	PC3	MIMAT0014987	ATGGCCAA	AACTGCAGTTATTTT
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0015060	AAAAGTAA	CTGCGTTTTTGCCT
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0018354	AAAAGTAA	CTACTGTTTTTGGCC
W & M	ACAGGTG	1	FRAP1	2	MCF7, TOV21G	MIMAT0003215	AACAGGTG	ACTGGTTAGACAA
W	AAAGTAA	1	MERTK	1	786-O	MIMAT0003223	TAAAGTAA	ATATGCACCAAAA
W & M	AAAGTTT	1	SNF1LK2	2	HMEC-TERT, RPMI-8226	MIMAT0003225	CAAAGTTT	AAGATCCTTGAAGT
W & M	GAGTTGG	1	PSKH1	4	DLD-1, NOMO-1, OVCAR8, U87	MIMAT0003236	TGAGTTGG	CCATCTGAGTGAG
W	TGAAGTG	1	PDK2	3	Fibroblast, HMEC-TERT, PC3	MIMAT0003238	CTGAAGTG	ATGTGTA
W & M	AGATGTG	2	INSRR, STK33	3	A549, HCT-116, LN229	MIMAT0004796	AAGATGTG	GAAAAATTGGAATC
M	TTCTTGT	2	PLCB2, ULK1	3	A549, RPMI-8226, TOV21G	MIMAT0003243	CTTCTTGT	GCTCTAGGATTGT
W	TCATTTG	1	RIMS1	1	PC3	MIMAT0003244	TTCATTTG	GTATAA
W	TGAGAAT	1	CSNK1E	1	U87	MIMAT0003245	TTGAGAAT	GATGAATCATTAGG
W	AAATCCC	1	MLKL	1	PC3	MIMAT0003273	TAAATCCC	ATGGTGCTTCTCCT
W	CAGTCTG	1	IHPK2	1	PC3	MIMAT0003291	ACAGTCTG	CTGAGGTTGGAGC
W	ACAAGGT	1	IKBKE	1	T47D	MIMAT0004807	CACAAGGT	ATTGGTATTACCT
W	TTCTCCC	1	TRRAP	1	OVCAR8	MIMAT0003298	GTTCTCCA	AACGTAAGCCCAGC
M	ACCAGCA	1	TRPV6	1	NOMO-1	MIMAT0003304	AACCAGCA	CCCCAACTTTGGAC
W	TGGCTGC	1	PDK2	2	786-O, LN229	MIMAT0003317	GTGGCTGC	ACTCACTTCTTC

W	GGAGGCA	1	NEK3	2	Fibroblast, LNCAP	MIMAT0003320	AGGAGGCA	GCGCTCTCAGGAC
W & M	ATGTCTG	1	CHEK1	4	DLD-1, LN229, OVCAR8, TOV21G	MIMAT0004814	TATGTCTG	CTGACCATCACCTT
W & M	TGTTGCC	1	STK17A	2	NOMO-1, T47D	MIMAT0004946	CTGTTGCC	ACTAACCTCAACCT
M	CAGCAGG	1	TRPV6	1	NOMO-1	MIMAT0010364	GCAGCAGG	GTGAAACTGACACA
W	ACTGACA	1	WNK3	1	LNCAP	MIMAT0004917	GACTGACA	CCTCTTTGGGTGAA
W & M	CTTTGGT	2	CDK8, NEK7	2	A549, Fibroblast	MIMAT0000441	TCTTTGGT	TATCTAGCTGTATGA
M	CAGCAGA	1	PACSIN1	1	RPMI-8226	MIMAT0004972	GCAGCAGA	GAAATAGGACTACGTC
W & M	CTGCTGA	1	BTK	5	LN229, NOMO-1, OVCAR8, RPMI-8226, T47D	MIMAT0004509	ACTGCTGA	GCTAGCACTTCCCG

Suppl Table 3. List of cell lines used in the Cheung and Barbie RNAi screens.
W; KRAS-wild type, M; KRAS-mutant, U; KRAS-status unknown.

Number	Publication Cell line	Tumor type	KRAS Status
1	Cheung 786-O	Renal Cell Carcinoma	W
2	Cheung A-204	Rhabdomyosarcoma	W
3	Cheung A2058	Melanoma	W
4	Cheung A2780	Ovarian	W
5	Cheung BxPC-3	Pancreas	W
6	Cheung C2BBE1	Colon	W
7	Cheung Caov-3	Ovarian	W
8	Cheung Caov-4	Ovarian	W
9	Cheung COLO 205	Colon	W
10	Cheung COLO 741	Melanoma	W
11	Cheung COV362	Ovarian	W
12	Cheung COV504	Ovarian	W
13	Cheung EFO-21	Ovarian	W
14	Cheung EFO-27	Ovarian	W
15	Cheung HCC2814	NSCLC	W
16	Cheung HCC364	NSCLC	W
17	Cheung HCC70	Breast	W
18	Cheung HCC827	NSCLC	W
19	Cheung HL-60	Leukemia	W
20	Cheung HLF	Liver	W
21	Cheung Hs 944.T	Melanoma	W
22	Cheung HT-29	Colon	W
23	Cheung HT55	Colon	W
24	Cheung HuG1-N	Gastric	W
25	Cheung HuTu 80	Colon	W
26	Cheung IGR-39	Melanoma	W
27	Cheung IGROV1	Ovarian	W
28	Cheung IOMM-LEE	Meningioma	W
29	Cheung KM12	Colon	W
30	Cheung KMS-12-BM	Multiple Myeloma	W
31	Cheung KURAMOCHI	Ovarian	W

32	Cheung KYSE-150	Esophageal	W
33	Cheung KYSE-30	Esophageal	W
34	Cheung KYSE-450	Esophageal	W
35	Cheung KYSE-510	Esophageal	W
36	Cheung LN-229	GBM	W
37	Cheung LS411N	Colon	W
38	Cheung MDA-MB-453	Breast	W
39	Cheung NCI-H1650	NSCLC	W
40	Cheung NCI-H196	SCLC	W
41	Cheung NCI-H1975	NSCLC	W
42	Cheung NCI-H2171	SCLC	W
43	Cheung NCI-H508	Colon	W
44	Cheung NCI-H661	NSCLC	W
45	Cheung NCI-H82	SCLC	W
46	Cheung NIH:OVCAR-3	Ovarian	W
47	Cheung OE33	Esophageal	W
48	Cheung OV-90	Ovarian	W
49	Cheung OVCAR-4	Ovarian	W
50	Cheung OVCAR-8	Ovarian	W
51	Cheung OWISE	Ovarian	W
52	Cheung OVMANA	Ovarian	W
53	Cheung RKO	Colon	W
54	Cheung RMG-I	Ovarian	W
55	Cheung RT-112	Bladder	W
56	Cheung SJSA-1	Osteosarcoma	W
57	Cheung SNU-C1	Colon	W
58	Cheung SW48	Colon	W
59	Cheung T.T	Esophageal	W
60	Cheung TE-15	Esophageal	W
61	Cheung TE-9	Esophageal	W
62	Cheung TYK-nu	Ovarian	W
63	Cheung U-251 MG	GBM	W
64	Cheung A549	NSCLC	M
65	Cheung AGS	Gastric	M
66	Cheung AsPC-1	Pancreas	M
67	Cheung CFPAC-1	Pancreas	M

68	Cheung DLD-1	Colon	M
69	Cheung GP2d	Colon	M
70	Cheung HEC-1-A	Endometrial	M
71	Cheung Hey-A8	Ovarian	M
72	Cheung HPAC	Pancreas	M
73	Cheung KP-1NL	Pancreas	M
74	Cheung KP4	Pancreas	M
75	Cheung L3.3	Pancreas	M
76	Cheung LoVo	Colon	M
77	Cheung LS513	Colon	M
78	Cheung MIA PaCa-2	Pancreas	M
79	Cheung NCI-H2122	NSCLC	M
80	Cheung Panc 03.27	Pancreas	M
81	Cheung Panc 08.13	Pancreas	M
82	Cheung Panc 10.05	Pancreas	M
83	Cheung QGP-1	Pancreas	M
84	Cheung RKN	Ovarian	M
85	Cheung SK-CO-1	Colon	M
86	Cheung SNU-C2A	Colon	M
87	Cheung SU.86.86	Pancreas	M
88	Cheung SW480	Colon	M
89	Cheung TOV-21G	Ovarian	M
90	Cheung CH-157MN	Meningioma	U
91	Cheung COLO-704	Ovarian	U
92	Cheung COV434	Ovarian	U
93	Cheung F5	Meningioma	U
94	Cheung JH-ESOAD1	Esophageal	U
95	Cheung JHOC-5	Ovarian	U
96	Cheung LN-215	GBM	U
97	Cheung LN-319	GBM	U
98	Cheung LN-464	GBM	U
99	Cheung SF767	GBM	U
100	Cheung SLR21	Renal Cell Carcinoma	U
101	Cheung SNU-840	Ovarian	U
102	Cheung TOV-112D	Ovarian	U
103	Barbie 786-O	Renal Cell Carcinoma	W

104	Barbie Fibroblasts	Skin	W
105	Barbie HMEC-TERT	Epithelium	W
106	Barbie LN-229	GBM	W
107	Barbie LNCAP	Prostate	W
108	Barbie MCF7	Breast	W
109	Barbie MDA-MB-453	Breast	W
110	Barbie OVCAR-8	Ovarian	W
111	Barbie PC3	Prostate	W
112	Barbie T47D	Breast	W
113	Barbie THP-1	Leukemia	W
114	Barbie U87	GBM	W
115	Barbie A549	NSCLC	M
116	Barbie DLD-1	Colon	M
117	Barbie HCT-116	Colon	M
118	Barbie MDA-MB-231	Breast	M
119	Barbie NOMO-1	Leukemia	M
120	Barbie RPMI-8226	Myeloma	M
121	Barbie TOV-21G	Ovarian	M

Suppl Table 4. BDA workflow and gene nomination in the 102 cell lines.

ctrl; control, μ ; mean, σ ; standard deviation, HC_OTE; High Confidence Off-Target Effects, LC_OTE; Low Confidence Off-Target Effects, FC; Fold Change.

Cell line	Active duplex identification	Active gene identification		OTE filtering			Re-scoring	Nominated hits by class	
	FC < $\mu_{ctrl} - 2\sigma_{ctrl}$	H score ≥ 60 p-value < 0.05		HC_OTEs	LC_OTEs	No OTEs	H score ≥ 60		
	active duplexes	active genes	active duplexes				Nominated hits		
KRAS-wild type	786-O	5,539	181	570	22	172	376	162	1,869
	A-204	3,473	40	118	9	69	40	33	
	A2058	7,811	405	1,288	47	407	834	368	
	A2780	3,361	45	137	10	74	53	38	
	BxPC-3	1,697	19	54	6	27	21	13	
	C2BBE1	2,352	32	95	5	52	38	30	
	Caov-3	5,020	112	337	18	148	171	98	
	Caov-4	5,586	154	471	20	156	295	139	
	COLO 205	4,514	117	364	16	158	190	103	
	COLO 741	1,476	10	27	2	14	11	8	
	COV362	5,123	191	610	35	181	394	171	
	COV504	3,809	66	198	16	113	69	52	
	EFO-21	2,775	94	289	19	127	143	80	
	EFO-27	2,868	36	103	5	61	37	33	
	HCC2814	4,673	150	472	22	148	302	138	
	HCC364	5,041	102	307	22	127	158	85	
	HCC70	6,069	245	774	18	245	511	230	
	HCC827	3,945	90	270	14	122	134	76	
	HL-60	3,395	31	90	12	50	28	23	
	HLF	3,644	47	142	10	80	52	37	
	Hs 944.T	8,074	413	1,281	41	417	823	381	
	HT-29	5,926	278	897	24	259	614	264	
	HT55	8,146	474	1,514	50	392	1,072	437	
	HuG1-N	988	7	19	2	8	9	5	
	HuTu 80	4,802	102	327	24	135	168	82	

IGR-39	5,504	154	460	21	189	250	136
IGROV1	2,507	49	156	12	84	60	42
IOMM-LEE	2,708	27	83	5	45	33	23
KM12	4,392	115	357	17	145	195	103
KMS-12-BM	2,218	22	79	6	42	31	20
KURAMOCHI	6,869	340	1,111	31	330	750	320
KYSE-150	4,592	85	252	14	127	111	73
KYSE-30	5,809	220	693	26	190	477	202
KYSE-450	4,448	99	300	20	143	137	82
KYSE-510	4,600	112	348	20	148	180	98
LN-229	3,651	57	171	10	93	68	48
LS411N	8,464	462	1,454	37	441	976	438
MDA-MB-453	7,349	376	1,197	23	341	833	360
NCI-H1650	4,953	159	504	24	175	305	139
NCI-H196	1,934	16	46	2	29	15	15
NCI-H1975	3,067	29	82	6	43	33	24
NCI-H2171	3,244	36	109	9	66	34	27
NCI-H508	3,192	54	163	9	87	67	48
NCI-H661	2,674	55	173	12	108	53	45
NCI-H82	3,108	52	152	15	84	53	39
NIH-OVCAR-3	3,931	90	273	16	124	133	75
OE33	3,811	58	178	9	108	61	51
OV-90	973	3	8	0	3	5	3
OVCAR-4	4,690	130	408	14	151	243	121
OVCAR-8	7,138	294	925	24	292	609	274
OVISE	4,540	190	626	20	191	415	174
OVMANA	2,424	16	46	3	22	21	13
RKO	6,009	310	995	32	282	681	286
RMG-I	5,192	144	436	20	176	240	128
RT-112	4,084	98	297	14	140	143	87
SJSA-1	2,479	21	62	7	28	27	15
SNU-C1	2,168	31	100	6	57	37	25
SW48	2,822	32	92	11	48	33	22
T.T	3,154	42	126	14	74	38	33
TE-15	3,999	85	257	20	124	113	72
TE-9	4,036	70	217	14	118	85	59

	TYK-nu	3,459	63	193	10	108	75	55	
	U-251 MG	2,983	63	190	13	105	72	53	
KRAS-mutant	A549	4,291	87	262	12	143	107	78	1,026
	AGS	5,981	272	876	36	274	566	246	
	AsPC-1	1,477	9	28	1	13	14	9	
	CFPAC-1	3,521	69	210	15	98	97	60	
	DLD-1	4,488	114	351	23	133	195	95	
	GP2d	5,296	204	675	21	200	454	192	
	HEC-1-A	4,041	71	219	13	115	91	59	
	Hey-A8	3,209	67	206	22	99	85	49	
	HPAC	3,341	65	205	14	112	79	61	
	KP-1NL	7,443	311	974	22	258	694	297	
	KP4	4,299	84	260	14	140	106	73	
	L3.3	6,747	280	884	37	271	576	257	
	LoVo	4,462	95	297	16	137	144	85	
	LS513	2,802	36	107	7	65	35	30	
	MIA PaCa-2	2,194	20	63	6	39	18	16	
	NCI-H2122	3,555	71	217	18	101	98	56	
	Panc 03.27	5,478	194	600	16	191	393	184	
	Panc 08.13	2,547	60	184	11	93	80	51	
	Panc 10.05	1,434	9	32	3	19	10	6	
	QGP-1	5,423	124	383	10	165	208	122	
RKN	4,837	143	445	17	188	240	128		
SK-CO-1	4,334	175	560	13	160	387	168		
SNU-C2A	1,127	4	16	0	10	6	4		
SU.86.86	3,118	83	254	12	135	107	75		
SW480	3,731	57	170	8	106	56	54		
TOV-21G	6,148	265	829	24	237	568	247		
KRAS-Unknown	CH-157MN	6,366	240	752	15	232	505	227	843
	COLO-704	2,585	57	184	12	93	79	49	
	COV434	4,683	101	320	21	139	160	85	
	F5	1,334	3	7	1	3	3	2	
	JH-ESOAD1	5,967	221	703	15	204	484	207	
	JHOC-5	4,655	152	489	18	177	294	142	
	LN-215	6,773	235	736	30	205	501	214	

LN-319	4,145	101	313	23	134	156	87
LN-464	4,272	107	334	16	154	164	94
SF767	1,658	15	40	3	19	18	13
SLR21	5,050	129	389	16	154	219	117
SNU-840	8,019	443	1,405	53	380	972	408
TOV-112D	3,423	58	177	15	107	55	46

Suppl Table 5. Comparative analysis of hits identified by the BDA methods with those reported by Cheung.

Tumor type		Genes nominated in common	Genes nominated by the BDA method only	Genes nominated by Cheung only
Ovarian (25 cell lines)	109	ABCC13, ADRA1A, AFF4, ALDH9A1, ALKBH5, AOX1, ARCN1, ATXN10, BMPR1A, BRPF3, CD80, CDK2, CHD1, CHN2, CIRH1A, COMT, COPS2, CTNBL1, CWC22, DDB1, DDX17, DLG2, DNAJC10, DOPEY1, DSCR6, EFTUD2, EGLN3, EIF2B5, EIF2S2, EIF3F, F11R, GBA2, GFRA1, HELQ, HNRNPU, HPS3, HSD17B12, HSD3B1, HTR2B, HYAL2, IARS2, IL13RA2, ISL1, KHDRBS1, KIF5A, KTN1, LAYN, LILRA2, LRRC59, LSM6, LSM7, LY96, MBOAT2, MCM6, MDM4, MOGAT1, NAA10, NAPA, NPC1, NUDT5, NUMB, OIP5, OR14A16, OR2J2, PCDHGA8, PDCD4, PHF5A, PNPT1, POLDIP3, POLR1B, POLR2A, PRKX, PRPF3, PSMA2, PSMC2, PSMD11, PSMD3, PTEN, PTPRB, RNF141, RPS15, RPS17, RRM1, SDHAP1, SERPINB11, SF3A1, SF3A2, SF3A3, SLC22A3, SNRNP40, SNRPD1, SNRPE, TACC3, TAF2, TAF7L, TAS2R7, TCEB1, TFEB, TOPBP1, TXNDC5, USP1, USP5, USP9X, USPL1, VCP, XPNPEP3, ZC3H18, ZNF155, ZNF382	997	473
GBM (6 cell lines)	30	ACOX3, ADAMTS12, APBB1, ARHGEF7, CCL28, CHRNA5, CLEC3B, DVL2, EFEMP1, FRMD1, GAN, ITGA2, LOC389906, LY96, MAP3K12, MB, NACA, NUPL1, OCM2, PRPF19, PSMA1, PSMA3, PSMD1, RPP38, RPSA, SLC5A8, SNRPC, SOX10, TCEB2, USP28	316	554

Colon (18 cell lines)	145	<p> ABC B7, ACACA, ACLY, ACP6, ADSL, AIRE, AK3, ARFIP2, AZIN1, BCL2L1, BCLAF1, BHMT2, BOP1, BRAF, CACNA2D4, CDK6, CHD4, CHRNA4, CLCA4, COL16A1, COPB2, COX11, CPSF3, DEK, DHX9, DLC1, DNAJC7, DUSP6, EBNA1BP2, EEF2, EIF2B3, EIF3F, EIF3FP3, EIF3G, EIF3I, EIF4A1, EIF5A, EIF5B, ENPP1, ENPP5, ERCC6, ESPL1, EXOSC10, FDPS, FERMT1, GALNT9, GATA6, GFRA1, GLS, GNG8, GOSR1, GYS2, HNRNPA1, HNRNPM, HSPA8, IGF1R, IQGAP1, ITPKB, KDM2A, KDM6A, KHSRP, KIF11, KRAS, LYRM2, MAGOH, MAX, MED27, MKI67IP, MT1F, MTHFD1, NCBP2, NDUFS8, NPM1, NUP93, NXT2, PAF1, PAFAH1B1, PAGE5, PAPD5, PAQR5, PCBP1, PDCD6, PDK4, PFAS, PFN4, PLA2R1, PLAGL2, POLG2, PPIE, PRPF38B, PSMB6, PSMC4, PSMD2, PUF60, RAD23B, RBM14, RBM47, RFC1, RPA3, RPL31, RPL37, RPS10, RPS15A, RPS19, RPS6, RPS8, RUVBL1, SAFB, SCD, SCN2A, SDHA, SF3B4, SIP1, SMAD4, SMC2, SRSF1, SRSF2, SRSF3, SSRP1, STK38, STX6, TAF4B, TAS2R9, TBX5, TCERG1, TDO2, TDRD3, TINAGL1, TMOD3, TMPRSS9, TSSC1, TUBG1, UBE4A, UCP2, UTY, VPS13B, WARS, WBP11, WNK1, XRCC6, YAP1, YKT6, ZFX, ZNF138, ZNF781 ALAS1, BOP1, CCL28, CD151, CFL1, CYB5R4, CYP11A1, DDX19B, DES, DOT1L, DPYSL2, EGLN3, EIF6, GIPC1, GPR32, GTF2A1L, HCFC2, HNMT, IGF2BP1, JUB, KHSRP, LOC401361, MAP6, MB, MTSS1, MYO18A, NPTN, PFKFB1, PFKM, PFN4, PIK3AP1, PMPCB, POLR2D, PPP1R14B, PSMC4, PTS, RPP38, RUVBL1, SEC14L3, SLC25A23, SRPK3, SSX1, USP28, VPS28, VPS72, ZBTB48, ZC3H13, ZNF22 ACSL3, AKR1C4, ARHGAP31, ASGR2, ATP6V1B2, BCLAF1, BIRC6, C7orf16, CAP1, COPE, DUSP28, EFNA5, EIF4A3, EIF5A, EPRS, ERCC1, FAM188A, FLT3, GPATCH1, GTF3C4, GULP1, HKDC1, ICK, IL15, IRAK3, JUND, KCNJ5, KRAS, KRT17, LIPG, LOC388573, MCM7, MED14, MS4A4A, NPTN, NPTXR, NUPL1, NUTF2, PI4KAP2, PMF1, PPP1R12A, PRPF38B, PSMA2, RASSF7, RGS2, RHOBTB3, RIPK3, RND2, SMARCD2, STK32B, STX4, TGFBR2, TRAFD1, TRIM69, UMODL1, WNK1, ZIC1 ADAMTS3, ATP2A2, ATP6V1B2, BRPF3, C14orf166, CDK6, DDX5, FCRL5, FGFR3, GRIN1, HAUS1, IQGAP3, KCNK5, KIAA0415, LILRA2, MPL, MRPL37, NKX2-1, NUDT10, PDE6D, PMPCB, PRKAA1, PSMA1, PTPRC, PVRL3, QRSL1, RPS12, RRM1, SCN11A, SF3A3, SNRPC, SPTAN1, STK35, SYT4, TTK, VDAC1, ZC3H13 </p>	1006	422
Esophageal Squamous (7 cell lines)	48	<p> MTSS1, MYO18A, NPTN, PFKFB1, PFKM, PFN4, PIK3AP1, PMPCB, POLR2D, PPP1R14B, PSMC4, PTS, RPP38, RUVBL1, SEC14L3, SLC25A23, SRPK3, SSX1, USP28, VPS28, VPS72, ZBTB48, ZC3H13, ZNF22 ACSL3, AKR1C4, ARHGAP31, ASGR2, ATP6V1B2, BCLAF1, BIRC6, C7orf16, CAP1, COPE, DUSP28, EFNA5, EIF4A3, EIF5A, EPRS, ERCC1, FAM188A, FLT3, GPATCH1, GTF3C4, GULP1, HKDC1, ICK, IL15, IRAK3, JUND, KCNJ5, KRAS, KRT17, LIPG, LOC388573, MCM7, MED14, MS4A4A, NPTN, NPTXR, NUPL1, NUTF2, PI4KAP2, PMF1, PPP1R12A, PRPF38B, PSMA2, RASSF7, RGS2, RHOBTB3, RIPK3, RND2, SMARCD2, STK32B, STX4, TGFBR2, TRAFD1, TRIM69, UMODL1, WNK1, ZIC1 ADAMTS3, ATP2A2, ATP6V1B2, BRPF3, C14orf166, CDK6, DDX5, FCRL5, FGFR3, GRIN1, HAUS1, IQGAP3, KCNK5, KIAA0415, LILRA2, MPL, MRPL37, NKX2-1, NUDT10, PDE6D, PMPCB, PRKAA1, PSMA1, PTPRC, PVRL3, QRSL1, RPS12, RRM1, SCN11A, SF3A3, SNRPC, SPTAN1, STK35, SYT4, TTK, VDAC1, ZC3H13 </p>	329	530
Pancreas (13 cell lines)	57	<p> IL15, IRAK3, JUND, KCNJ5, KRAS, KRT17, LIPG, LOC388573, MCM7, MED14, MS4A4A, NPTN, NPTXR, NUPL1, NUTF2, PI4KAP2, PMF1, PPP1R12A, PRPF38B, PSMA2, RASSF7, RGS2, RHOBTB3, RIPK3, RND2, SMARCD2, STK32B, STX4, TGFBR2, TRAFD1, TRIM69, UMODL1, WNK1, ZIC1 ADAMTS3, ATP2A2, ATP6V1B2, BRPF3, C14orf166, CDK6, DDX5, FCRL5, FGFR3, GRIN1, HAUS1, IQGAP3, KCNK5, KIAA0415, LILRA2, MPL, MRPL37, NKX2-1, NUDT10, PDE6D, PMPCB, PRKAA1, PSMA1, PTPRC, PVRL3, QRSL1, RPS12, RRM1, SCN11A, SF3A3, SNRPC, SPTAN1, STK35, SYT4, TTK, VDAC1, ZC3H13 </p>	601	531
NSCLC (8 cell lines)	37	<p> ADAMTS3, ATP2A2, ATP6V1B2, BRPF3, C14orf166, CDK6, DDX5, FCRL5, FGFR3, GRIN1, HAUS1, IQGAP3, KCNK5, KIAA0415, LILRA2, MPL, MRPL37, NKX2-1, NUDT10, PDE6D, PMPCB, PRKAA1, PSMA1, PTPRC, PVRL3, QRSL1, RPS12, RRM1, SCN11A, SF3A3, SNRPC, SPTAN1, STK35, SYT4, TTK, VDAC1, ZC3H13 </p>	354	557