

tepper et al THE PROSTATE 2005

	G245S	R248W	R273H	P151S	G245S	R248W	R273H	P151S
ADCY1	+ AB026190	+ AB026190	+ ABCB10	+ ABCB10	+ 13CDNA73	-	-	-
ADH5	+ ACSL3	+ ACSL3	+ ABCC4	+ ABCC4	+ ACPF	-	-	-
ADPRTL2	+ ACTA2	+ ADCY1	+ ACSL3	+ ACSL3	+ ACSL4	-	-	-
ALDH1A3	+ ADH5	+ ADPRTL2	+ ACTA2	+ ACTA2	+ ADD3	-	-	-
ALDH2	+ ADPRTL2	+ ALDH1A3	+ ACTG2	+ ACTG2	+ ADRB2	-	-	-
AR	+ AK3	+ ALDH2	+ ACTR3	+ AF1Q	+ AGR2	-	-	-
ARN2	+ ALDH2	+ ANPT2	+ ADAM7	+ AGR2	+ AHR	-	-	-
AUTS2	+ ANP32E	+ APOBEC3G	+ ADAM9	+ AHR	+ ALCAM	-	-	-
BAG2	+ APG-1	+ AR	+ ADRB2	+ ARG1	+ ATP2B1	-	-	-
BARD1	+ APG12L	+ ARHGAP19	+ AGR2	+ BAX	+ B2M	-	-	-
BBX	+ AR	+ ARNT2	+ AIM1	+ BCHE	+ BAX	-	-	-
BCKDHB	+ ARNT2	+ AUTS2	+ AKR1C1	+ C6orf32	+ BCHE	-	-	-
BCL6	+ ATR	+ BAG1	+ ALDH1A3	+ CA12	+ C6orf32	-	-	-
BDH	+ AUIS32	+ BAG2	+ ANGPT2	+ CCM1	+ CD99	-	-	-
BET1	+ BAG2	+ BARD1	+ ANP32E	+ CELSR1	+ CLN5	-	-	-
BTG3	+ BARO1	+ BMP2K	+ APOBEC3G	+ COBL	+ COBL	-	-	-
BTN3A3	+ BCAS2	+ BTG3	+ ARF6	+ CPN2	+ COL16A1	-	-	-
C13orf1	+ BCKDHB	+ C13orf1	+ ARGBP2	+ CTSS	+ CPN2	-	-	-
C4orf15	+ BCL6	+ CASK	+ AZGP1	+ CYP3A7	+ CYP3A7	-	-	-
CASK	+ BDH	+ CDC2	+ BCAP29	+ DBCCR1L	+ CYP3A7	-	-	-
CCL5	+ BET1	+ CDC6	+ BICD2	+ DDC	+ DBCCR1L	-	-	-
CCT8	+ BRD2	+ CDK8	+ BMPR1A	+ DDX3Y	+ DDC	-	-	-
CDC6	+ BRDT	+ CDS1	+ BRCA2	+ DKFZP586A0522	+ DDI3	-	-	-
CDK8	+ BTG3	+ CIP29	+ BRD2	+ DKFZP586M1120	+ DDX3Y	-	-	-
CDS1	+ BTN3A3	+ CKS1B	+ BTG1	+ EFS	+ EFS	-	-	-
CIP29	+ C13orf1	+ CREB1	+ EUB1	+ ESD	+ EIF1AY	-	-	-
CKS1B	+ C4orf15	+ CRISP2	+ EUB1B	+ ETV1	+ ERG	-	-	-
CLPX	+ CAP350	+ CTPS	+ C13orf1	+ FN1	+ ESD	-	-	-
CMKOR1	+ COT2	+ CUL5	+ C14orf120	+ G6PC	+ ETV1	-	-	-
CREB1	+ CDC8	+ CYB561	+ C6orf32	+ GABARAPL1	+ FCGR2A	-	-	-
CTH	+ CDC6	+ DAAM1	+ CA12	+ GAGEB1	+ FLJ13236	-	-	-
CTPS	+ CDS1	+ DAP3	+ CALU	+ GOLC	+ FN1	-	-	-
CUL5	+ CEACAM3	+ DHRS3	+ CAPN2	+ GLRA3	+ FOLH1	-	-	-
DAAM1	+ CFPD1	+ DICER1	+ CCDG6	+ GPR126	+ FOS	-	-	-
DDHD2	+ CIP29	+ DIO1	+ CCNA2	+ GSTA1	+ FPR1	-	-	-
DDIT4	+ CKS1B	+ DKFZP434C212	+ CCNB1	+ GULP1	+ G6PC	-	-	-
DDX21	+ CLPX	+ DMXL1	+ CCNB2	+ H1FO	+ GAGEB1	-	-	-
DHRS3	+ OCL4A5	+ EZF3	+ CCH2	+ HIST1H2AE	+ GOLC	-	-	-
DICER1	+ CREB1	+ FZR	+ CD2	+ HIST1H2BN	+ GDF15	-	-	-
DIO1	+ CTPS	+ FADS1	+ CDC42EP3	+ IL24	+ GNAI1	-	-	-
DKFZP434C212	+ CUL5	+ FALZ	+ CD6	+ IRS1	+ GPR126	-	-	-
DKFZP564M1462	+ CXCL11	+ FAM3C	+ CDKN3	+ KCNK1	+ GULP1	-	-	-
DLEU2	+ CYB561	+ FDF1	+ CEBPD	+ KIAA0367	+ H1FO	-	-	-
DMXL1	+ D8S2298E	+ FECH	+ CKS1B	+ KLK3	+ HIST1H2AE	-	-	-
DSFG3	+ DAAM1	+ FLJ14431	+ CKS2	+ LOC123876	+ HIST2H4	-	-	-
DSTN	+ DDHD2	+ FLJ14639	+ CLGN	+ LUM	+ IL24	-	-	-
E2F3	+ DDX21	+ FLJ34588	+ CLU	+ MAGEA1	+ IRS1	-	-	-
EIF2S3	+ DICER1	+ FNBP3	+ CREB1	+ MAGEA4	+ KCNK1	-	-	-
EIF4E	+ DKFZP434C212	+ GAGE3	+ CRISP2	+ MAGEA5	+ KIAA0408	-	-	-
ELVOL6	+ DLEU2	+ GLI2	+ CRISP3	+ MCCO2	+ KIAA0767	-	-	-
ELYS	+ DMXL1	+ GNAH1	+ CROT	+ MCC39325	+ KIAA0789	-	-	-
EPHX1	+ E2F3	+ GNB2L1	+ CTPS	+ MME	+ KIAA0861	-	-	-
F2R	+ EHHADH	+ GOSR1	+ DBI	+ MT1G	+ KLK3	-	-	-
FADS1	+ EIF1AX	+ GPNMB	+ DHFR	+ MYCBP2	+ LCP1	-	-	-
FALZ	+ EIF2S3	+ GTF3A	+ DICER1	+ NEFL	+ LOC123876	-	-	-
FAM3C	+ EIF4G1	+ H2AFX	+ DKFZP564B167	+ NFKB2	+ LOC90925	-	-	-
FAT	+ ELYS	+ HIBCH	+ DLG2	+ OVGPI	+ LUM	-	-	-
FDF1	+ ETFDH	+ HIST1H4C	+ DLG7	+ PF4V1	+ MAGEA1	-	-	-
FECH	+ F2R	+ HMGB2	+ DPP4	+ PHLD2A	+ MAGEA4	-	-	-
FLJ14431	+ F2RL1	+ HMMR	+ DR1	+ PLA2G2A	+ MAGEA5	-	-	-
FLJ14639	+ FADS1	+ HOMER1	+ DSG2	+ POFUT1	+ MAOA	-	-	-
FLJ34588	+ FALZ	+ HSPCB	+ DUSP4	+ PRKR	+ MME	-	-	-
FMO5	+ FAT	+ ID1	+ EIF4AX	+ RAB1A	+ MT1G	-	-	-
FNBP3	+ FDF1	+ IGKC	+ ELK4	+ RPL23AP7	+ MYCBP2	-	-	-
FNBP4	+ FECH	+ IL7	+ ELL2	+ RPS4Y1	+ NEFL	-	-	-
GAGE3	+ FLJ14431	+ INADL	+ ELOVL5	+ RTN1	+ NFKB2	-	-	-
GCLM	+ FLJ14639	+ KNDJ3	+ ETV1	+ SEMA3C	+ PF4V1	-	-	-
GLI2	+ FLJ34588	+ KHDRBS3	+ F2RL1	+ SI	+ PLA2G2A	-	-	-
GNAI1	+ FMO5	+ KIAA0186	+ FADS1	+ SLC39A8	+ PMP2	-	-	-
GNB2L1	+ FNBP3	+ KIAA0888	+ FKBP5	+ SLC4A4	+ POLR2K	-	-	-
GOSR1	+ FUSIP1	+ KIAA0924	+ FLJ10569	+ SMARCCD3	+ PRKR	-	-	-
GP2D	+ GAGE3	+ KIF2C	+ FLJ13305	+ SSX2	+ RAB1A	-	-	-
GPNMB	+ GAL	+ KNTC2	+ FLJ36754	+ SSX3	+ RPLP1	-	-	-
GT3A	+ GCLM	+ KPN2A	+ FN1	+ TPPI	+ RPS4Y1	-	-	-
GUCY1A3	+ GSH	+ KPNB3	+ FNBP3	+ THBS2	+ SDFR1	-	-	-
GUCY1B3	+ GLI2	+ KRAS2	+ GBP1	+ TJP2	+ SEMA3C	-	-	-

	G245S	R248W	R273H	P151S	G245S	R248W	R273H	P151S
HCG4	+	GNB2L1	+	LARP	+	GLI2	+	TNP2
HERC4	+	GOSR1	+	LIM	+	GLRX	+	TSPY1
HIBC1	+	GOT2	+	LOC200895	+	GLUD1	+	WNT5A
HIST1H4C	+	GP2	+	LOC81691	+	GNAH1	+	ZBTB1
HMG2	+	GPMB	+	LPP	+	GPR105	+	
HOMER1	+	GST44	+	LRRFIP1	+	GSR	+	
HRSLS3	+	GTF3A	+	MAD2L1	+	GTF3A	+	
HSPCB	+	GUCY1A3	+	ME1	+	GUCY1A3	+	
HSRTSBETA	+	HCG4	+	MELK	+	H2AFX	+	
HSU79274	+	HIBCH	+	MEOX2	+	H41	+	
ICK	+	HIST1H4C	+	MEST	+	HERC3	+	
ID1	+	HMG2	+	MID1	+	HIST1H4C	+	
IL7	+	HOMER1	+	MIZ1	+	HMG2	+	
INADL	+	H-pik	+	MRC3	+	HMMR	+	
INSIG2	+	HSP90	+	MRP56	+	HOMER2	+	
KHDRBS3	+	HSU15552	+	MTAP	+	HPGD	+	
KIAA0186	+	HSU79274	+	NKTR	+	ID1	+	
KIAA0669	+	ICK	+	NMI	+	ID2	+	
KIAA0888	+	ID1	+	NPD014	+	ID3	+	
KIAA0924	+	INADL	+	NOO1	+	IGF1R	+	
KIF2C	+	KATNA1	+	NR3C1	+	IGFBP2	+	
KNTC2	+	KIAA0179	+	NUP153	+	IGFBP3	+	
KPNA2	+	KIAA0186	+	PAQR3	+	IQGAP2	+	
KPNB3	+	KIAA0669	+	PCNA	+	KATNA1	+	
KRAS2	+	KIAA0711	+	PEG10	+	KIAA0101	+	
LAMA3	+	KIAA0794	+	PGM1	+	KIAA0186	+	
LARP	+	KIAA0888	+	PHK8	+	KIAA0924	+	
LIM	+	KIAA0924	+	PIK3CA	+	KIAA0953	+	
LMO4	+	KIAA0971	+	PLA2G4A	+	KIAA1102	+	
LOC120526	+	KIF2C	+	PPBP	+	KIF2C	+	
LOC171220	+	KIF3A	+	PRKCJ	+	KLK2	+	
LOC200895	+	KNTC2	+	PTTG1	+	KLK3	+	
LOC54103	+	KPNA2	+	PVRL3	+	KNTC2	+	
LOC81691	+	KRAS2	+	PYGL	+	KPNA2	+	
LOC90355	+	LARP	+	RAD51C	+	KRT19	+	
LONP	+	LMO4	+	RAD51L3	+	LAMC1	+	
LPP	+	LOC200895	+	RBBP6	+	LDHA	+	
LRRFIP1	+	LOC81691	+	RBBP8	+	LILRB1	+	
MAD2L1	+	LPP	+	RFC3	+	LIM	+	
MAD4	+	LPXN	+	RLN1	+	LOC120526	+	
MDK	+	LRP8	+	RLN2	+	LOC200895	+	
ME1	+	LRRFIP1	+	RNF6	+	LOC221810	+	
MELK	+	MAD2L1	+	RPS8KA3	+	LOC81691	+	
MEOX2	+	MAP4	+	RRM1	+	LRP8	+	
MEST	+	MARCKS	+	SEC3L1	+	LSM6	+	
MID1	+	MDK	+	SF1	+	MAD2L1	+	
MIZ1	+	ME1	+	SFRS2	+	MAF	+	
MRC3	+	MELK	+	SLAC2-B	+	MALT1	+	
MRPS6	+	MEST	+	SLC16A4	+	MAP2	+	
MTAP	+	MIZ1	+	SLC26A2	+	MAP2K5	+	
NFAT5	+	MRC3	+	SLCA7	+	MAP3K5	+	
NKTR	+	MRE11A	+	SMA4	+	MAP7	+	
NMI	+	MRPS6	+	SMC4L1	+	MAPK6	+	
NPC1	+	MTAP	+	SNTB2	+	MARCKS	+	
NPD014	+	MTERF	+	SPAG5	+	MAZ	+	
NOO1	+	NBEA	+	SOSTM1	+	MEIS1	+	
NUP153	+	NFAT5	+	SS18	+	MELK	+	
PAICS	+	NKTR	+	SSA2	+	MGC34648	+	
PAQR3	+	NMI	+	ST18	+	MTAP	+	
PGM1	+	NPC1	+	STAT3	+	MYBL2	+	
PHACTR4	+	NPD014	+	STATH	+	NBEA	+	
PHK8	+	NPTX2	+	TAF1A	+	NDN	+	
PIK3CA	+	NUP153	+	TEB4	+	NDRG1	+	
PORIMIN	+	NUP155	+	THRAP1	+	NFKBIA	+	
PRKCI	+	PACRG	+	TK1	+	NKTR	+	
PRMT3	+	PAICS	+	TMSNB	+	NKX3-1	+	
PVRL3	+	PAK3	+	TOP2A	+	NMI	+	
PYGL	+	PAQR3	+	TPX2	+	NMU	+	
RAD51C	+	PGM1	+	TRIM2	+	NPC1	+	
RAPGEF2	+	PHK8	+	TUBB	+	NPD014	+	
RB1CC1	+	PIK3CA	+	TUSC3	+	NUP153	+	
RBBP6	+	PLA2G4A	+	TXNL4	+	NUP155	+	
RBBP8	+	PLK2	+	TYMS	+	OSBP8	+	
RCN1	+	POLE3	+	UBL3	+	PAQR3	+	
RHOBTB3	+	POLR1C	+	UGT1A10	+	PCNA	+	
RLN1	+	PRIM2A	+	UGT2B28	+	PEG3	+	
RLN2	+	PRKCI	+	UGT2B7	+	PIR	+	
RNF6	+	PRMT3	+	VG5Q	+	PLA2G7	+	
RPRIP1	+	PRSS7	+	VIM	+	POLE3	+	
RPS8KA5	+	PVRL3	+	WSB2	+	PPAP2A	+	
RRM1	+	PYGL	+	ZNF217	+	PPP1R3C	+	

	G245S	R248W	R273H	P151S	G245S	R248W	R273H	P151S
SC4MOL	+	RAD17	+	ZNF238	+	PRSS7		+
SEC31L1	+	RAD51C	+	ZNF273	+	PTGFR		+
SHOC2	+	RALBP1	+	ZNF294	+	PTPLB		+
SLAC2-B	+	RAPGEF2	+	ZNF415	+	PTTG1		+
SLC16A4	+	RBBP6	+	ZNF44	+	RAB27A		+
SLC25A16	+	RBBP8	+	ZWINT	+	RFC3		+
SLC26A2	+	RHOBTB3	+			RIFI		+
SLC31A1	+	RLN2	+			RPGRIP1		+
SLC4A7	+	RNF6	+			RPS6KA3		+
SMA4	+	RPGRIP1	+			RRM1		+
SNTB2	+	RPP14	+			RRM2		+
SOX9	+	RPP40	+			S100P		+
SOLE	+	RPS6KA3	+			SAT		+
SOSTM1	+	RPS6KA5	+			SCC		+
SRP72	+	RRM1	+			SEC31L1		+
SS18	+	SAT	+			SEPP1		+
SSA2	+	SC4MOL	+			SERPINE2		+
STAT3	+	SEC31L1	+			SF1		+
STATH	+	SFRS2	+			SH2D1A		+
STC2	+	SLAC2-B	+			SLBP		+
STCH	+	SLC16A4	+			SLC16A6		+
TADA2L	+	SLC26A2	+			SLC26A2		+
TAF1A	+	SLC4A7	+			SLC4A7		+
TAX1BP1	+	SMA4	+			SLP1		+
TEB4	+	SMAD5	+			SMAD5		+
THRAP1	+	SMN1	+			SMC4L1		+
TM4SF3	+	SPAG5	+			SMG1		+
TMPO	+	SOSTM1	+			SMS		+
TUBB	+	SS18	+			SNAI2		+
TUSC3	+	SSA2	+			SNRPA1		+
TXNIP	+	ST18	+			SNTB2		+
TXNL4	+	STAT3	+			SORD		+
UBL3	+	STATH	+			SPAG5		+
UGT1A10	+	TAF1A	+			SPARCL1		+
UGT2B28	+	TAF4B	+			Spc25		+
UGT2B7	+	TAX1BP1	+			SSR1		+
VG5Q	+	TBPL1	+			SSX2		+
VIM	+	TEB4	+			SSX3		+
WDR21	+	TFDP2	+			SSX5		+
ZNF165	+	THRAP1	+			STK17B		+
ZNF217	+	TIPARP	+			STK39		+
ZNF238	+	TLE1	+			STRA13		+
ZNF273	+	TNPO1	+			TACG1		+
ZNF294	+	TOX	+			TAF1A		+
ZNF415	+	TRAP1	+			TCP1		+
ZNF44	+	TUBA1	+			TEB4		+
ZNF91	+	TUBA3	+			TM4SF1		+
		TUBB	+			TNFAlP8		+
		TUBB2	+			TNPO1		+
		TUSC3	+			TPX2		+
		TXNL4	+			TRGV9		+
		USP14	+			TUBB2		+
		VG5Q	+			TYMS		+
		VIM	+			UAP1		+
		WDR21	+			UBE2E1		+
		WSB2	+			UGDH		+
		YWHAZ	+			UGT1A10		+
		ZNF217	+			UGT2B28		+
		ZNF238	+			UGT2B4		+
		ZNF273	+			UGT2B7		+
		ZNF415	+			VPS13A		+
		ZNF44	+			WDR21		+
		ZNF85	+			WTAP		+
			+			ZNF44		+
			+			ZNF1		+
			+			ZWINT		+

	R175H	R273H	R280K	R249S	R175H	R273H	R280K	R249S
ABLIM1	+	+	+	+	-	-	-	-
AGR2	+	+	+	+	-	-	-	-
AKAP12	+	+	+	+	-	-	-	-
AKT2	+	+	+	+	-	-	-	-
ALDH1A3	+	+	+	+	-	-	-	-
ALDH3A1	+	+	+	+	-	-	-	-
ANKRD5	+	+	+	+	-	-	-	-
ANKRD9	+	+	+	+	-	-	-	-
APS	+	+	+	+	-	-	-	-
AQP3	+	+	+	+	-	-	-	-
ARF4	+	+	+	+	-	-	-	-
ARHGEF16	+	+	+	+	-	-	-	-
ARHGFEF4	+	+	+	+	-	-	-	-
ARID3B	+	+	+	+	-	-	-	-
ATF3	+	+	+	+	-	-	-	-
ATP9A	+	+	+	+	-	-	-	-
BCO08967	+	+	+	+	-	-	-	-
BCAN	+	+	+	+	-	-	-	-
BCOR	+	+	+	+	-	-	-	-
BIN3	+	+	+	+	-	-	-	-
BMP2	+	+	+	+	-	-	-	-
BMP6	+	+	+	+	-	-	-	-
BRF1	+	+	+	+	-	-	-	-
C10orf27	+	+	+	+	-	-	-	-
C14orf116	+	+	+	+	-	-	-	-
C14orf118	+	+	+	+	-	-	-	-
C14orf128	+	+	+	+	-	-	-	-
C14orf160	+	+	+	+	-	-	-	-
C20orf111	+	+	+	+	-	-	-	-
C21orf63	+	+	+	+	-	-	-	-
C6orf4	+	+	+	+	-	-	-	-
CA2	+	+	+	+	-	-	-	-
CA9	+	+	+	+	-	-	-	-
CAMP	+	+	+	+	-	-	-	-
CAMTA2	+	+	+	+	-	-	-	-
CD14	+	+	+	+	-	-	-	-
CD24	+	+	+	+	-	-	-	-
CDCC25A	+	+	+	+	-	-	-	-
CDH1	+	+	+	+	-	-	-	-
CHN2	+	+	+	+	-	-	-	-
CKMT1	+	+	+	+	-	-	-	-
CLCN5	+	+	+	+	-	-	-	-
CLDN1	+	+	+	+	-	-	-	-
CLMN	+	+	+	+	-	-	-	-
CPT1A	+	+	+	+	-	-	-	-
CPVL	+	+	+	+	-	-	-	-
CRF	+	+	+	+	-	-	-	-
CTSD	+	+	+	+	-	-	-	-
CYP1A1	+	+	+	+	-	-	-	-
DDR1	+	+	+	+	-	-	-	-
DHRS9	+	+	+	+	-	-	-	-
DMD	+	+	+	+	-	-	-	-
E2F5	+	+	+	+	-	-	-	-
EDL3	+	+	+	+	-	-	-	-
EEF1A2	+	+	+	+	-	-	-	-
EMES	+	+	+	+	-	-	-	-
ERBB2IP	+	+	+	+	-	-	-	-
ERBB3	+	+	+	+	-	-	-	-
EVER1	+	+	+	+	-	-	-	-
FGFR2	+	+	+	+	-	-	-	-
FLJ11017	+	+	+	+	-	-	-	-
FLJ13725	+	+	+	+	-	-	-	-
FLJ20433	+	+	+	+	-	-	-	-
FLJ22056	+	+	+	+	-	-	-	-
FLJ31295	+	+	+	+	-	-	-	-
FLJ44952	+	+	+	+	-	-	-	-
FLJ90805	+	+	+	+	-	-	-	-
FLRT3	+	+	+	+	-	-	-	-
FOS	+	+	+	+	-	-	-	-
FOXA1	+	+	+	+	-	-	-	-
FOXG1B	+	+	+	+	-	-	-	-
FST	+	+	+	+	-	-	-	-
FZD3	+	+	+	+	-	-	-	-
GLDC	+	+	+	+	-	-	-	-
GPR153	+	+	+	+	-	-	-	-
GPR27	+	+	+	+	-	-	-	-
GPR54	+	+	+	+	-	-	-	-
GPR7	+	+	+	+	-	-	-	-
H1FO	+	+	+	+	-	-	-	-

	R175H	R273H	R280K	R249S	R175H	R273H	R280K	R249S
HAS3	+	+	+	+	-	-	-	-
HA2	+	+	+	+	-	-	-	-
HHEX	+	+	+	+	-	-	-	-
HLXB9	+	+	+	+	-	-	-	-
HMG1	+	+	+	+	-	-	-	-
HOMER2	+	+	+	+	-	-	-	-
HR	+	+	+	+	-	-	-	-
HRH4	+	+	+	+	-	-	-	-
ID3	+	+	+	+	-	-	-	-
IFI30	+	+	+	+	-	-	-	-
IL1F7	+	+	+	+	-	-	-	-
IL1RL1	+	+	+	+	-	-	-	-
INHA	+	+	+	+	-	-	-	-
INPPL1	+	+	+	+	-	-	-	-
INSR	+	+	+	+	-	-	-	-
IRF5	+	+	+	+	-	-	-	-
ITGB4	+	+	+	+	-	-	-	-
ITPR3	+	+	+	+	-	-	-	-
JAG2	+	+	+	+	-	-	-	-
JMD2B	+	+	+	+	-	-	-	-
JUP	+	+	+	+	-	-	-	-
KCNJ2	+	+	+	+	-	-	-	-
KIAA0220	+	+	+	+	-	-	-	-
KIAA0515	+	+	+	+	-	-	-	-
KIAA0599	+	+	+	+	-	-	-	-
KIAA0759	+	+	+	+	-	-	-	-
KIAA0947	+	+	+	+	-	-	-	-
KIAA1622	+	+	+	+	-	-	-	-
KIAA1944	+	+	+	+	-	-	-	-
KL1F6	+	+	+	+	-	-	-	-
KLHL13	+	+	+	+	-	-	-	-
KRT15	+	+	+	+	-	-	-	-
KRT16	+	+	+	+	-	-	-	-
KRT6B	+	+	+	+	-	-	-	-
KRTHB1	+	+	+	+	-	-	-	-
KYNU	+	+	+	+	-	-	-	-
LAD1	+	+	+	+	-	-	-	-
LAMA3	+	+	+	+	-	-	-	-
LHX1	+	+	+	+	-	-	-	-
LISCH7	+	+	+	+	-	-	-	-
LLGL2	+	+	+	+	-	-	-	-
LOC126353	+	+	+	+	-	-	-	-
LOC146206	+	+	+	+	-	-	-	-
LOC255022	+	+	+	+	-	-	-	-
LOC58489	+	+	+	+	-	-	-	-
LRRK1	+	+	+	+	-	-	-	-
LU	+	+	+	+	-	-	-	-
LYN	+	+	+	+	-	-	-	-
LZTS1	+	+	+	+	-	-	-	-
MAL2	+	+	+	+	-	-	-	-
MAP2K5	+	+	+	+	-	-	-	-
MAP7	+	+	+	+	-	-	-	-
MAZ	+	+	+	+	-	-	-	-
MBP	+	+	+	+	-	-	-	-
MEF2D	+	+	+	+	-	-	-	-
MGC16207	+	+	+	+	-	-	-	-
MGC5356	+	+	+	+	-	-	-	-
MIRAB13	+	+	+	+	-	-	-	-
MMP28	+	+	+	+	-	-	-	-
MTA1	+	+	+	+	-	-	-	-
MYO5B	+	+	+	+	-	-	-	-
NETO1	+	+	+	+	-	-	-	-
NFKBIA	+	+	+	+	-	-	-	-
NMT2	+	+	+	+	-	-	-	-
OFD1	+	+	+	+	-	-	-	-
OGFR	+	+	+	+	-	-	-	-
ORAOV2	+	+	+	+	-	-	-	-
P2RX5	+	+	+	+	-	-	-	-
P2RY2	+	+	+	+	-	-	-	-
PARD6B	+	+	+	+	-	-	-	-
PAWR	+	+	+	+	-	-	-	-
PCBP2	+	+	+	+	-	-	-	-
PDE2A	+	+	+	+	-	-	-	-
PDE3B	+	+	+	+	-	-	-	-
PDK4	+	+	+	+	-	-	-	-
PIS	+	+	+	+	-	-	-	-
PKIB	+	+	+	+	-	-	-	-
PLAU	+	+	+	+	-	-	-	-
PLEKHH1	+	+	+	+	-	-	-	-
PPL	+	+	+	+	-	-	-	-
PPP1R3E	+	+	+	+	-	-	-	-

R175H	R273H	R280K	R249S	R175H	R273H	R280K	R249S
	SEMA4D	+	SESN1	-	SLC9A3R1	-	SLC2A9
	SERPINB2	+	SLC2A13	-	SLC02B1	-	SLC30A1
	SERPINB3	+	SLC2A8	-	SOM	-	SLC35D1
	SFRS1	+	SLC2A9	-	SORBS1	-	SLC35E4
	SH3BGR2	+	SLC35D1	-	SORL1	-	SLC4A11
	SH3BGR2	+	SLC35E4	-	SPAG1	-	SLC9A1
	SIAH1	+	SLC4A11	-	SPN	-	SLC9A3R1
	SIAT7D	+	SLC9A1	-	SPRL2A	-	SLC02B1
	SIPA1	+	SLC9A3R1	-	SSB1	-	SOM
	SIRPB1	+	SLC02B1	-	STAR	-	SORBS1
	SIRT6	+	SORBS1	-	STAR5	-	SORL1
	SLA/LP	+	SORL1	-	STAT4	-	SPAG1
	SLC16A4	+	SPAG1	-	SULF2	-	SPN
	SLC23A1	+	SPN	-	SYK	-	SPRL2A
	SLC27A3	+	SPRL2A	-	SYNCOILIN	-	SSB1
	SLC29A2	+	SSB1	-	SYTL2	-	STAR
	SLC39A14	+	STAR	-	TACC1	-	STAR5
	SLC6A8	+	STAR5	-	TAF3	-	STAT4
	SLC04A1	+	STAT4	-	TAGLN	-	STAT4
	SLPI	+	SYNCOILIN	-	TAP1	-	SULF2
	SNTA1	+	SYTL2	-	TBXA2R	-	SYK
	SNX27	+	TACC1	-	TEAD3	-	SYNCOILIN
	SOD2	+	TAF3	-	TGFBR1	-	SYTL2
	SORD	+	TAGLN	-	TINP1	-	TACC1
	SPATA2	+	TAP1	-	TLR3	-	TAF3
	SPINT2	+	TBXA2R	-	TM7SF1	-	TAGLN
	SPRC4P	+	TEAD3	-	TM7SF3	-	TAP1
	SRGAP1	+	TGFBR1	-	TMEM16D	-	TBXA2R
	SSH1	+	TINP1	-	TMG4	-	TEAD3
	ST6GALNAC6	+	TLR3	-	TNFRSF10B	-	TGFBR1
	STAM2	+	TM7SF1	-	TNFRSF14	-	TINP1
	STAP2	+	TM7SF3	-	TP53AP1	-	TLR3
	STARD10	+	TMEM16D	-	TP53I1	-	TM7SF1
	STAU2	+	TMG4	-	TP53I3	-	TM7SF3
	STK38L	+	TNFRSF10B	-	TP53INP1	-	TMEM16D
	STRBP	+	TNFRSF14	-	TP73	-	TMEM16D
	STRN4	+	TP53	-	TRAF4	-	TNFRSF10B
	STS	+	TP53AP1	-	TREM2	-	TNFRSF14
	SUFU	+	TP53I1	-	TRIM11	-	TP53AP1
	SYNGR2	+	TP53I3	-	TRIM2	-	TP53I1
	TBP	+	TP53INP1	-	TRIM3	-	TP53I3
	TACSTD2	+	TP73	-	TRIM8	-	TP53INP1
	TCEA2	+	TRAF4	-	TSGA10	-	TP73
	TFAP2A	+	TREM2	-	ULBP2	-	TRAF4
	TFAP2C	+	TRIM11	-	VSNL1	-	TREM2
	THBD	+	TRIM2	-	WDR8	-	TRIM11
	TIMP2	+	TRIM22	-	WFDC5	-	TRIM2
	TLN1	+	TRIM3	-	WIG1	-	TRIM2
	TM4SF1	+	TRIM8	-	WWP1	-	TRIM3
	TM7SF2	+	TSGA10	-	XLalphas	-	TRIM8
	TM9SF4	+	ULBP2	-	ZNF197	-	TSGA10
	TNFRSF10A	+	VSNL1	-	ZNF236	-	ULBP2
	TNP02	+	WDR8	-	ZNF385	-	VSNL1
	TOP1MT	+	WFDC5	-	ZNF441	-	WDR8
	TPD52	+	WIG1	-	ZNF492	-	WFDC5
	TPD52	+	WWP1	-		-	WIG1
	TREM1	+	XLalphas	-		-	WWP1
	TRIM29	+	ZNF197	-		-	XLalphas
	TRIM36	+	ZNF236	-		-	ZNF197
	TSRC1	+	ZNF385	-		-	ZNF236
	TTG7	+	ZNF492	-		-	ZNF385
	TXNDC5	+		-		-	ZNF441
	TXNIP	+		-		-	ZNF492
	TYRO3	+		-		-	
	UBCE1/TP5	+		-		-	
	UBE2D3	+		-		-	
	UCN	+		-		-	
	UNC93B1	+		-		-	
	UTS2	+		-		-	
	WDR5B	+		-		-	
	ZFP36	+		-		-	
	ZFP67	+		-		-	
	ZNF499	+		-		-	
	ZNF545	+		-		-	
	ZNF580	+		-		-	

scian CANCER RES 2004 (a)				
	R175H	R273H	D281G	
GARS	5.248	5.248	5.248	+
TARS	3.691	3.691	3.691	+
YARS	2.713	2.713	2.713	+
NARS	2.880	2.880	2.880	+
ASNS	5.071	5.071	5.071	+
IMPDH2	3.036	3.036	3.036	+
LOC115871	3.048	3.048	3.048	+
CCNH	2.035	2.035	2.035	+
CCNB2	3.327	3.327	3.327	+
CDC25A	2.478	2.478	2.478	+
STAMBP	2.199	2.199	2.199	+
MYC	2.749	2.749	2.749	+
MCL1	3.607	3.607	3.607	+
LOC120450	2.057	2.057	2.057	+
RHOG	1.045	1.045	1.045	+
HAX1	3.352	3.352	3.352	+
EBAG9	1.798	1.798	1.798	+
ANGPT1	2.719	2.719	2.719	+
ITGA6	3.917	3.917	3.917	+
POLD2	2.783	2.783	2.783	+
NFKB2	2.664	2.664	2.664	+
LOC139376	3.922	3.922	3.922	+
ATIC	3.260	3.260	3.260	+
POLR2E	3.171	3.171	3.171	+
CEBPB	4.684	4.684	4.684	+

scian, MOL. CELL. BIO 2005				
	R175H	R273H	D281G	
QARS	1.677	1.677	1.677	+
SRM	1.766	1.766	1.766	+
PARP1	1.277	1.277	1.277	+
XRCC5	1.081	1.081	1.081	+
MCM6	1.960	1.960	1.960	+
CCNB2	2.790	2.790	2.790	+
CD44	1.841	1.841	1.841	+
DRG1	1.877	1.877	1.877	+
CDC25A	1.838	1.838	1.838	+
FYN	1.240	1.240	1.240	+
EBAG9	1.435	1.435	1.435	+
MYBL2	1.304	1.304	1.304	+
ITGA6	2.747	2.747	2.747	+
POLA2	1.971	1.971	1.971	+
MCM6	1.960	1.960	1.960	+
MCM3	1.315	1.315	1.315	+
NAP1L1	1.205	1.205	1.205	+
MAPKAPK3	1.692	1.692	1.692	+
MAPKAPK2	1.312	1.312	1.312	+
NFKB2	1.964	1.964	1.964	+
EBAG9	1.435	1.435	1.435	+
ATIC	1.262	1.262	1.262	+
POLR2E	2.012	2.012	2.012	+

mizuarai et al CANCER res, 2006			
	V157F	R175H	R248Q
CYORF48	+	+	+
CCNB1IP1	+	+	+
MRPL46	+	+	+
ZNF24	+	+	+
CARS	+	+	+
MOCOS	+	+	+
TNFRSF9	+	+	+
CARS	+	+	+
LOC56901	+	+	+
GEF-H1	+	+	+
SFPQ	+	+	+
CCNL1	+	+	+

li et al cancer res 2004			
	M237I (+)	M237I (-)	
HMGCR	+	CCR7	-
ID1	+	PMAIP1	-
FDFT1	+	PPM1D	-
		SES2	-
		CDKN1A	-
		NIFU	-
		PRGI	-
		PSA	-
		CTBS	-
		CTH	-
		TNFRSF6	-
		FLJ10374	-
		MDM2	-
		PIG3	-

bossi et al. Cell cycle 2008			
GENE	Accession N	R175H	
ARHGDI4	A1571798	7.09*	+
PLEC1	Z54897	7.04	+
MARCKS	D10522.1	5.00	+
ZFP36L2	A1356398	4.08	+
HMGAI1	AF176039.1	4.08	+
PXN	D86862.1	4.05*	+
HELLS	NM0180634.04.1	4.04	+
YPT3	X79780	4.00	+
ILF3	AF167569.1	3.09	+
MAZ	D85131.1	3.08	+
SRPR	NM003139.1	3.08	+
TRP	BF110993	3.04	+
SLC19A1	U15939.1	3.04	+
CYSLT2R	NM020377.1	3.02	+
ANTXR1	NM016153.1	2.09	+
BCL2L1	NM001191.1	2.08*	+
NFKB2	NM002502.1	2.08	+
ID2	NM002166	2.08	+
EIF4G1	BE966876	2.07	+
CDC25A	A1343459	2.06	+
DAPK3	BF686824	2.05	+
IGF1R	NM000875.2	2.03*	+
EIF5A	NM001970.1	1.08	+
RANGAP1	NM002883.1	1.08*	+
TCF4	NM_003199.1	1.07	+
DHCR24	NM014762.1	1.07*	+
TFFI2	L27624.1	1.06	+
RAB6K1FL	NM005733.1	1.04*	+
EIF1A	NM_001412.1	1.03	+
MAP2K3	L36719.1	1.00*	+

o'farrell CANCER RES 2004 (COMPAR)		
	A138P	
HBB	2.21	+
RLN1	2.12	+
CCDC28D	0.34	-
ZNF22	0.5	-

scian et al Oncogene 2004(a)		
GENE	D281G	
TERT	5.4	+
ERCC1	5.4	+
MLH1	6.8	+
PLAUR	6.5	+
PTGER1	3.8	+
NR2C1	3.5	+
ERBB2	3.4	+
ASNS	4.0	+
E2F5	2.6	+
IGF2	12.5	+
PLAUR	6.5	+
ERBB2	3.4	+
PCCA	3.5	+
DGCR6	6.5	+
IGF2	12.5	+
LRRCC1	2.6	+
NF-IL6	4.4	+
TDFP1	3.8	+
TGFA	3.2	+
IGF2	12.5	+
MTMR11	3.2	+
ERCC1	5.4	+
JunB	4.5	+
NPHP4	7.8	+
ATG4B	7.6	+
SEPT10	3.1	+
CTH	4.6	+
PLEKH82	2.4	+
RASSF2	2.8	+

weisz et al cancer res 2004	
	R175H (-)
OXCT	13
ANX3	3.5
ITGA5	4.5
IL13RA1	14
PPARG	7.5
GALC	8.4
GSK3A	2.5
MYBL1	2.5
PSMB8	2.6
SMARCA2	3.6
TGFB1	2.6
PLAUR	3.4
MEST	3.7
IGFBP6	9