

ENDOMETRIAL PANEL (18 genes)

DNA (SNVs, Indels, CNVs)

ARID1A	BRAF	BRCA1	BRCA2	CTNNB1	EPCAM	ERBB2	KRAS	MLH1
MSH2	MSH6	PIK3CA	PMS2	POLD1	POLE	PTEN	STK11	TP53

ESSENTIAL COMBINED PANEL (50 genes)

DNA Hotspots (SNVs, Indels)

AKT1	AKT2	AKT3	ALK	AR	ARAF	BRAF	CDK4	CDKN2A
CHEK2	CTNNB1	EGFR	ERBB2	ERBB3	ERBB4	ESR1	FGFR1	FGFR2
FGFR3	FGFR4	FLT3	GNA11	GNAQ	GNAS	HRAS	IDH1	IDH2
KIT	KRAS	MAP2K1	MAP2K2	MET	MTOR	NRAS	NTRK1	NTRK2
NTRK3	PDGFRA	PIK3CA	PTEN	RAF1	RET	ROS1	SMO	TP53

CNVs

ALK	AR	CD274	CDKN2A	EGFR	ERBB2	ERBB3	FGFR1	FGFR2
FGFR3	KRAS	MET	PIK3CA	PTEN				

RNA Fusions

ALK	AR	BRAF	EGFR	ESR1	FGFR1	FGFR2	FGFR3	MET
NRG1	NTRK1	NTRK2	NTRK3	NUTM1	RET	ROS1	RSPO2	RSPO3

ESSENTIAL DNA PANEL (46 genes)

DNA Hotspots (SNVs, Indels)

AKT1	AKT2	AKT3	ALK	AR	ARAF	BRAF	CDK4	CDKN2A
CHEK2	CTNNB1	EGFR	ERBB2	ERBB3	ERBB4	ESR1	FGFR1	FGFR2
FGFR3	FGFR4	FLT3	GNA11	GNAQ	GNAS	HRAS	IDH1	IDH2
KIT	KRAS	MAP2K1	MAP2K2	MET	MTOR	NRAS	NTRK1	NTRK2
NTRK3	PDGFRA	PIK3CA	PTEN	RAF1	RET	ROS1	SMO	TP53

CNVs

ALK	AR	CD274	CDKN2A	EGFR	ERBB2	ERBB3	FGFR1	FGFR2
FGFR3	KRAS	MET	PIK3CA	PTEN				

ESSENTIAL FUSION PANEL (18 genes)

RNA Fusions

ALK	AR	BRAF	EGFR	ESR1	FGFR1	FGFR2	FGFR3	MET
NRG1	NTRK1	NTRK2	NTRK3	NUTM1	RET	ROS1	RSPO2	RSPO3

DNA 68 PANEL (68 genes)

DNA (SNVs, Indels)

AKT1	ALK	APC	AR	ARID1A	ATM	BAP1	BRAF	BRCA1
BRCA2	CD274	CDH1	CDK4	CDK6	CDK12	CDKN2A	CHEK2	CTNNB1
EGFR	EPCAM	ERBB2	ESR1	FBXW7	FGFR1	FGFR2	FGFR3	FOXL2
GNA11	GNAQ	GNAS	HRAS	IDH1	IDH2	KEAP1	KIT	KRAS
MAP2K1	MDM2	MET	MLH1	MSH2	MSH6	MUTYH	MYC	NF1
NF2	NRAS	PALB2	PDGFRA	PDGFRB	PIK3CA	PMS2	POLD1	POLE
PTEN	RAF1	RB1	RET	ROS1	SF3B1	SMAD4	SMO	STK11
TERT*	TP53	TSC1	TSC2	VHL				

*5' promoter region only

CNVs

AR	BAP1	BRAF	BRCA1	BRCA2	CDK4	CDK6	CDKN2A	CHEK2
EGFR	ERBB2	ESR1	FGFR1	FGFR2	FGFR3	KIT	KRAS	MDM2
MET	MYC	PDGFRA	PIK3CA	PTEN	RB1	TP53	VHL	

NEURO-ONCOLOGY PANEL (100 genes)

DNA (SNVs, Indels)

ACVR1	AKT1	APC	ARID1A	ATRX	BAP1	BCOR	BRAF	CDK4
CDK6	CDKN2A	CDKN2B	CIC	CTNNB1	CYSLTR2	DAXX	DDX3X	DGCR8
DICER1	DROSHA	EED	EGFR	EIF1AX	ERBB2	EZH1P	FGFR1	FGFR2
FGFR3	FOXR2	FUBP1	GLI2	GNA11	GNAQ	GNAS	H3-3A	H3-3B
H3C2	H3C3	H3C14	HRAS	IDH1	IDH2	KBTBD4	KDM6A	KIT
KLF4	KRAS	LZTR1	MAP2K1	MDM2	MDM4	MET	MLH1	MSH2
MSH6	MTOR	MYC	MYCN	NF1	NF2	NOTCH1	NRAS	NTRK1
NTRK2	NTRK3	OTX2	PBRM1	PDGFRA	PIK3CA	PIK3R1	PLCB4	PMS2
POLD1	POLE	POLR2A	PPM1D	PRDM6	PRKAR1A	PRKCA	PTCH1	PTEN
PTPN11	RB1	SETD2	SF3B1	SMARCA2	SMARCA4	SMARCAL1	SMARCB1	SMARCE1
SMO	SUFU	SUZ12	TCF12	TERT*	TP53	TRAF7	TSC1	TSC2
VHL								

CNVs

ATRX	BAP1	BRAF	CDK4	CDK6	CDKN2A	CDKN2B	EGFR	ERBB2
EZH1P	FGFR1	FGFR2	FGFR3	KBTBD4	KIT	KLF4	KRAS	MDM2
MDM4	MET	MYC	MYCN	NF1	NF2	PDGFRA	PTCH1	PTEN
RB1	TP53	TRAF7						

CHROMOSOME ARM LEVEL COPY NUMBER ALTERATIONS

1p	6	7	9	10	16	17	19q	
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THYROSTRANDS PANEL (91 genes)

DNA (SNVs, Indels, CNVs)

AKT1	AKT3	ALK	APC	ARID1A	ARID1B	ARID2	ARID5B	ATRX
AXIN1	BCL6	BCOR	BRAF	CCNE1	CDKN2A	CHEK2	CREBBP	CTNNB1
DICER1	DIS3	EGFR	EIF1AX	EP300	EPHA3	ERBB2	FAT1	FGFR1
FGFR2	FGFR3	FGFR4	FLT1	FLT3	FLT4	GNAS	HRAS	IDH1
IDH2	KDR	KIT	KMT2C	KMT2D	KRAS	MET	MLH1	MSH2
MSH6	NF2	NOTCH1	NOTCH2	NOTCH3	NOTCH4	NRAS	NTRK1	NTRK2
NTRK3	PBRM1	PDGFRA	PDGFRB	PIK3C2G	PIK3C3	PIK3CA	PIK3CG	PIK3R1
PIK3R2	PMS2	POLE	PTEN	RAD54L	RBM10	RECQL4	RET	SETD2
SF3B1	SMARCB1	SPOP	STK11	TERT	TP53	TSC1	TSC2	TSHR

RNA Fusions

ALK	AXL	BRAF	EML4	FGFR1	FGFR2	FGFR3	GLIS3	MET
NRG1	NTRK1	NTRK2	NTRK3	NUTM1	PAX8	PPARG	RAF1	RET
ROS1	THADA							

EXTENDED PANEL (110 genes)

DNA (SNVs, Indels)

AKT1	ALK	APC	AR	ARID1A	ATM	ATR	BAP1	BARD1
BRAF	BRCA1	BRCA2	BRIP1	CDH1	CD274	CDK4	CDK6	CDK12
CDKN2A	CDKN2B	CHEK1	CHEK2	CSF1R	CTNNB1	CYSLTR2	DDR2	EGFR
EPCAM	ERBB2	ERBB3	ERCC2	ESR1	EZH2	FANCA	FANCL	FBXW7
FGFR1	FGFR2	FGFR3	FOXL2	GNA11	GNAQ	GNAS	H3-3A*	H3-3B*
H3C2*	H3C3*	HDAC2	HNF1A	HRAS	IDH1	IDH2	JAK2	KEAP1
KIT	KRAS	MAP2K1	MAP2K2	MDM2	MET	MLH1	MRE11	MSH2
MSH6	MTOR	MUTYH	MYC	MYCN	NBN	NF1	NF2	NFE2L2

NOTCH1	NRAS	NTRK1	NTRK2	NTRK3	PALB2	PDGFRA	PDGFRB	PIK3CA
PMS2	POLD1	POLE	PPP2R1A	PPP2R2A	PTCH1	PTEN	PTPN11	RAD50
RAD51B	RAD51C	RAD51D	RAD54L	RAF1	RB1	RET	ROS1	SETD2
SF3B1	SMAD4	SMARCB1	SMO	SRC	STK11	TERT [#]	TP53	TSC1
TSC2	VHL							

* Hotspots only [#]5' promoter region only

CNVs

AR	BAP1	BRAF	BRCA1	BRCA2	CDK4	CDK6	CDK12	CDKN2A
CDKN2B	CHEK2	EGFR	ERBB2	ESR1	FGFR1	FGFR2	FGFR3	KIT
KRAS	MDM2	MET	MLH1	MSH2	MSH6	MYC	MYCN	NF1
NF2	PDGFRA	PIK3CA	PTCH1	PTEN	RB1	SMARCB1	TP53	VHL

COMPREHENSIVE FUSION PANEL (507 genes)

ABI1	ABL1	ABL2	ACACA	ACE	ACER1	ACKR3	ACSL6	ADD3
ADGRG7	AFDN	AFF1	AFF3	AFF4	AGR3	AHI1	AHRR	ALK
ANKRD28	AR	ARHGAP20	ARHGAP26	ARNT	ASPSCR1	ASTN2	ATF1	ATIC
ATP1B4	AUTS2	BACH2	BAG4	BAIAP2L1	BAZ2A	BCAS3	BCAS4	BCL10
BCL2	BCL2L1	BCL3	BCL6	BCL9	BCL11A	BCL11B	BCOR	BCR
BDNF	BICC1	BIRC3	BIRC6	BRAF	BRD1	BRD3	BRD4	BRWD3
BTBD18	BTG1	C2CD2L	CAMTA1	CAPRIN1	CARS1	CASP7	CBFA2T3	CBFB
CBL	CCAR2	CCDC6	CCDC28A	CCDC88C	CCNB1IP1	CCNB3	CCND1	CCND2
CCND3	CD74	CDH11	CDK5RAP2	CDK6	CDX1	CDX2	CEBPA	CEBPB
CEBPD	CEBPE	CEP43	CEP85L	CEP170B	CFAP68	CHD6	CHIC2	CHMP2B
CHST11	CIC	CIITA	CIP2A	CLP1	CLTC	CLTCL1	CMKLR1	CNBP
CNOT2	CNTRL	COG5	COL1A1	COL1A2	COL6A3	COX6C	CPSF6	CRADD
CREB1	CREB3L1	CREB3L2	CREBBP	CRLF2	CRTC1	CSF1	CSF1R	CTDSP2
CTNNB1	CUX1	DAB2IP	DACH1	DACH2	DDIT3	DDX10	DDX20	DEK
DMRT1	DNAJB1	DPM1	DRC9	DUSP22	DUX4	EBF1	EEFSEC	EGFR
EGR1	EGR2	EGR3	EGR4	EIF4A2	ELF4	ELK4	ELL	ELN
EML1	EML4	EP300	EP400	EPC1	EPOR	EPS15	ERBB3	ERC1
ERCC1	ERG	ERLIN2	ESR1	ETS1	ETV1	ETV4	ETV5	ETV6
EWSR1	EZR	FCGR2B	FCRL4	FEN1	FEV	FGF8	FGFR1	FGFR2
FGFR3	FGFR4	FGFR1OP2	FHIT	FIP1L1	FLI1	FLNA	FLT3	FLT3LG
FNBP1	FOSB	FOSL1	FOXO1	FOXO4	FOXP1	FRK	FRYL	FUS
GAS5	GAS7	GATA1	GIT2	GLI1	GOSR1	GOT1	GPR34	GRHPR
GRID1	GTF2I	H2AX	H4C9	HAS2	HEY1	HHEX	HIP1	HIPK1
HLF	HMGA2	HNF1A	HOXA9	HOXA10	HOXA11	HOXA13	HOXC11	HOXC13
HOXD11	HOXD13	HSP90AA1	ID4	IKZF1	IL2	IL3	IL21R	INPP5D
IRAG2	IRF2BP2	IRF4	IRS4	ITK	JAK1	JAK2	JAZF1	KANK1

KAT6A	KAT6B	KDM5A	KIF5B	KMT2A	KNL1	KPNB1	KSR1	LASP1
LCK	LCP1	LGR5	LHFPL6	LHX2	LHX4	LINC00598	LINC01565	LMBRD1
LMO1	LMO2	LNP1	LPP	LPXN	LRRC37B	LTBP1	LYL1	MACROD1
MAF	MAFB	MALT1	MAML2	MAPRE1	MBNL1	MBTD1	MDS2	MEAF6
MECOM	MLF1	MLLT1	MLLT3	MLLT6	MLLT10	MLLT11	MN1	MNX1
MRTFA	MRTFB	MSI2	MSN	MUC1	MUTYH	MYB	MYBL1	MYC
MYH9	MYH11	MYO1F	MYO18A	NAB2	NAPA	NBEAP1	NBR1	NCOA1
NCOA2	NCOA3	NDE1	NF1	NFATC2	NFIB	NGF	NGFR	NIN
NIPBL	NKX2-5	NONO	NOTCH1	NPM1	NR4A3	NR6A1	NSD1	NSD2
NSD3	NT5C2	NTF3	NTF4	NTRK1	NTRK2	NTRK3	NUMA1	NUP98
NUP107	NUP214	NUTM1	NUTM2A	NUTM2B	OFD1	OGA	OLIG2	OLR1
OMD	P2RY8	PAPPA	PATZ1	PAX3	PAX5	PAX7	PAX8	PBX1
PCM1	PDE4DIP	PDGFB	PDGFRA	PDGFRB	PER1	PHF1	PHF23	PICALM
PIM1	PLAG1	PLPP3	PML	POM121	POU2AF1	POU5F1	PPARG	PPARGC1A
PPFIBP1	PPP2R1B	PRCC	PRDM16	PRDM16-DT	PRKACA	PRKAR1A	PRKG2	PRRX2
PSIP1	PSMD2	PTPRR	PVT1	RABEP1	RAD51B	RAF1	RANBP2	RAP1GDS1
RARA	RBM6	RBM15	RCOR1	RCSD1	RET	RHOH	RNF213	ROS1
RPL22	RPN1	RREB1	RRM1	RTEL1	RUNX1	RUNX1T1	SARNP	SEC31A
SEPTIN2	SEPTIN5	SEPTIN6	SEPTIN9	SERPINE1	SERPINF1	SET	SETBP1	SFPQ
SH3D19	SH3GL1	SIK3	SLC34A2	SLC45A3	SLCO1B3	SMAP1	SMARCA5	SMARCB1
SNHG5	SORBS2	SORT1	SP3	SPECC1	SPTBN1	SQSTM1	SRF	SRSF3
SS18	SS18L1	SSBP2	SSX1	SSX2	SSX4	ST6GAL1	STAT5B	STAT6
STRN	SUGP2	SUZ12	SYK	TACC1	TACC2	TACC3	TAF15	TAF12
TAL1	TAL2	TAOK1	TBX15	TCF3	TCF12	TCL1A	TCTA	TEAD1
TEAD2	TEAD3	TEAD4	TEC	TENM1	TET1	TFE3	TFG	TFPT
TFRC	TGFB3	THADA	THRAP3	TIRAP	TLX1	TLX3	TMPRSS2	TNFRSF17
TOP1	TOP2B	TP53BP1	TPM3	TPM4	TRHDE	TRIM24	TRIP11	TRPS1
USP6	USP16	USP42	VGLL3	WASF2	WDR18	WDR70	WSB1	WT1
WWTR1	XIAP	YAP1	YTHDF2	YWHAE	ZBTB16	ZC3H7A	ZC3H7B	ZFP64
ZFPM2	ZFTA	ZFYVE19	ZMIZ1	ZMYM2	ZMYND11	ZNF207	ZNF384	ZNF444
ZNF521	ZNF585B	ZNF687						

COMPREHENSIVE PANEL (523 genes)

DNA (SNVs, Indels)

ABL1	ABL2	ABRAXAS1	ACVR1	ACVR1B	ADGRA2	AKT1	AKT2	AKT3
ALK	ALOX12B	AMER1	ANKRD11	ANKRD26	APC	AR	ARAF	ARFRP1
ARID1A	ARID1B	ARID2	ARID5B	ASXL1	ASXL2	ATM	ATR	ATRX
AURKA	AURKB	AXIN1	AXIN2	AXL	B2M	BAP1	BARD1	BBC3

BCL2	BCL2L1	BCL2L2	BCL2L11	BCL6	BCL10	BCOR	BCORL1	BCR
BIRC3	BLM	BMPR1A	BRAF	BRCA1	BRCA2	BRD4	BRIP1	BTG1
BTK	CALR	CARD11	CASP8	CBFB	CBL	CCN6	CCND1	CCND2
CCND3	CCNE1	CD74	CD79A	CD79B	CD274	CD276	CDC73	CDH1
CDK4	CDK6	CDK8	CDK12	CDKN1A	CDKN1B	CDKN2A	CDKN2B	CDKN2C
CEBPA	CENPA	CHD2	CHD4	CHEK1	CHEK2	CIC	COP1	CREBBP
CRKL	CRLF2	CSF1R	CSF3R	CSNK1A1	CTCF	CTLA4	CTNNA1	CTNNB1
CUL3	CUX1	CXCR4	CYLD	DAXX	DCUN1D1	DDR2	DDX41	DHX15
DICER1	DIS3	DNAJB1	DNMT1	DNMT3A	DNMT3B	DOT1L	E2F3	EED
EGFL7	EGFR	EIF1AX	EIF4A2	EIF4E	ELOC	EML4	EMSY	EP300
EPCAM	EPHA3	EPHA5	EPHA7	EPHB1	ERBB2	ERBB3	ERBB4	ERCC1
ERCC2	ERCC3	ERCC4	ERCC5	ERG	ERRFI1	ESR1	ETS1	ETV1
ETV4	ETV5	ETV6	EWSR1	EZH2	FANCA	FANCC	FANCD2	FANCE
FANCF	FANCG	FANCI	FANCL	FAS	FAT1	FBXW7	FGF1	FGF2
FGF3	FGF4	FGF5	FGF6	FGF7	FGF8	FGF9	FGF10	FGF14
FGF19	FGF23	FGFR1	FGFR2	FGFR3	FGFR4	FH	FLCN	FLI1
FLT1	FLT3	FLT4	FOXA1	FOXL2	FOXO1	FOXP1	FRS2	FUBP1
FYN	GABRA6	GATA1	GATA2	GATA3	GATA4	GATA6	GEN1	GID4
GLI1	GNA11	GNA13	GNAQ	GNAS	GPS2	GREM1	GRIN2A	GRM3
GSK3B	H1-2	H3-3A	H3-3B	H3-4	H3-5	H2BC5	H3C1	H3C2
H3C3	H3C4	H3C6	H3C7	H3C8	H3C10	H3C11	H3C12	H3C13
H3C14	H3C15	HGF	HLA-A	HLA-B	HLA-C	HNF1A	HNRNPK	HOXB13
HRAS	HSD3B1	HSP90AA1	ICOSLG	ID3	IDH1	IDH2	IFNGR1	IGF1
IGF1R	IGF2	IKBKE	IKZF1	IL7R	IL10	INHA	INHBA	INPP4A
INPP4B	INSR	IRF2	IRF4	IRS1	IRS2	JAK1	JAK2	JAK3
JUN	KAT6A	KDM5A	KDM5C	KDM6A	KDR	KEAP1	KEL	KIF5B
KIT	KLF4	KLHL6	KMT2A	KMT2B	KMT2C	KMT2D	KRAS	LAMP1
LATS1	LATS2	LMO1	LRP1B	LYN	LZTR1	MAGI2	MALT1	MAP2K1
MAP2K2	MAP2K4	MAP3K1	MAP3K4	MAP3K13	MAP3K14	MAPK1	MAPK3	MAX
MCL1	MDC1	MDM2	MDM4	MED12	MEF2B	MEN1	MET	MGA
MITF	MLH1	MLLT3	MPL	MRE11	MSH2	MSH3	MSH6	MST1
MST1R	MTOR	MUTYH	MYB	MYC	MYCL	MYCN	MYD88	MYOD1
NAB2	NBN	NCOA3	NCOR1	NEGR1	NF1	NF2	NFE2L2	NFKBIA
NKX2-1	NKX3-1	NOTCH1	NOTCH2	NOTCH3	NOTCH4	NPM1	NRAS	NRG1
NSD1	NTRK1	NTRK2	NTRK3	NUP93	NUTM1	PAK1	PAK3	PAK5
PALB2	PARP1	PAX3	PAX5	PAX7	PAX8	PBRM1	PDCD1	PDCD1LG2
PDGFRA	PDGFRB	PDK1	PDPK1	PGR	PHF6	PHOX2B	PIK3C2B	PIK3C2G
PIK3C3	PIK3CA	PIK3CB	PIK3CD	PIK3CG	PIK3R1	PIK3R2	PIK3R3	PIM1
PLCG2	PLK2	PMAIP1	PMS1	PMS2	PNRC1	POLD1	POLE	PPARG

PPM1D	PPP2R1A	PPP2R2A	PPP6C	PRDM1	PREX2	PRKAR1A	PRKCI	PRKDC
PRKN	PRSS8	PTCH1	PTEN	PTPN11	PTPRD	PTPRS	PTPRT	QKI
RAB35	RAC1	RAD21	RAD50	RAD51	RAD51B	RAD51C	RAD51D	RAD52
RAD54L	RAF1	RANBP2	RARA	RASA1	RB1	RBM10	RECQL4	REL
RET	RHEB	RHOA	RICTOR	RIT1	RNF43	ROS1	RPS6KA4	RPS6KB1
RPS6KB2	RPTOR	RUNX1	RUNX1T1	RYBP	SDHA	SDHAF2	SDHB	SDHC
SDHD	SETBP1	SETD2	SF3B1	SH2B3	SH2D1A	SHQ1	SLIT2	SLX4
SMAD2	SMAD3	SMAD4	SMARCA4	SMARCB1	SMARCD1	SMC1A	SMC3	SMO
SNCAIP	SOCS1	SOX2	SOX9	SOX10	SOX17	SPEN	SPOP	SPTA1
SRC	SRSF2	STAG1	STAG2	STAT3	STAT4	STAT5A	STAT5B	STK11
STK40	SUFU	SUZ12	SYK	TAF1	TANK	TBX3	TCF3	TCF7L2
TENT5C	TERC	TERT	TET1	TET2	TFE3	TFRC	TGFB1	TGFB2
TMEM127	TMPRSS2	TNFAIP3	TNFRSF14	TOP1	TOP2A	TP53	TP63	TRAF7
TSC1	TSC2	TSHR	U2AF1	VEGFA	VHL	VTCN1	WT1	XIAP
XPO1	XRCC2	YAP1	YES1	ZBTB2	ZBTB7A	ZFHX3	ZNF217	ZNF703
ZRSR2								

CNVs

AKT2	ALK	AR	ATM	BRAF	BRCA1	BRCA2	CCND1	CCND3
CCNE1	CDK4	CDK6	CHEK1	CHEK2	EGFR	ERBB2	ERBB3	ERCC1
ERCC2	ESR1	FGF1	FGF2	FGF3	FGF4	FGF5	FGF6	FGF7
FGF8	FGF9	FGF10	FGF14	FGF19	FGF23	FGFR1	FGFR2	FGFR3
FGFR4	JAK2	KIT	KRAS	LAMP1	MDM2	MDM4	MET	MYC
MYCL	MYCN	NRAS	NRG1	PDGFRA	PDGFRB	PIK3CA	PIK3CB	PTEN
RAF1	RET	RICTOR	RPS6KB1	TFRC				

RNA Fusions

ABL1	AKT3	ALK	AR	AXL	BCL2	BRAF	BRCA1	BRCA2
CDK4	CSF1R	EGFR	EML4	ERBB2	ERG	ESR1	ETS1	ETV1
ETV4	ETV5	EWSR1	FGFR1	FGFR2	FGFR3	FGFR4	FLI1	FLT1
FLT3	JAK2	KDR	KIF5B	KIT	KMT2A	MET	MLLT3	MSH2
MYC	NOTCH1	NOTCH2	NOTCH3	NRG1	NTRK1	NTRK2	NTRK3	PAX3
PAX7	PDGFRA	PDGFRB	PIK3CA	PPARG	RAF1	RET	ROS1	RPS6KB1
TMPRSS2								