

Reporte_Parcial_Final

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Metodologia

Para el desarrollo del presente trabajo utilizamos el paquete `DynamicCancerDriverKM`, para ello realizamos la instalación del paquete en el repositorio en github <https://github.com/AndresMCB/DynamicCancerDriverKM> en su interior se encuentran las instrucciones de instalación (por favor referirse al repositorio para mas información)

Posteriormente se construye una matriz de expresión genética unificada, donde combinamos las matrices con pacientes con `Primary Tumor` (Tumor detectado) y pacientes con `Solid Tissue Normal` (Tejido normal), manteniendo la variable `sample_type` la cual será nuestra variable clase, se eliminan las variables que no contienen la variable clase y los genes a analizar, estos pasos fueron realizados con el código:

```
Matriz_Normal_Tumor <-  
  merge(DynamicCancerDriverKM::BRCA_normal,  
        DynamicCancerDriverKM::BRCA_PT, all = TRUE)  
  
Matriz_Normal_Tumor <-  
  Matriz_Normal_Tumor[, -c(1:3)]  
Matriz_Normal_Tumor <-  
  Matriz_Normal_Tumor[, -c(2:4)]
```

Se filtra el dataset verificando cuáles de los genes (variables predictoras) están activas por cada una de las muestras, para determinar el umbral que define si la muestra está activa, se halló el valor máximo en el dataset, resultando un valor de 7032374, sobre este valor se definió como umbral el 0.02% del valor máximo, para concluir en dicho porcentaje, se tomó como base que al realizar el primer filtro, debían quedar entre 7.000 y 14.000 genes, se realiza con el código:

```
Valor_Maximo <- max(Matriz_Normal_Tumor[, 2:23688], na.rm=FALSE)*0.0002
```

Binarizamos el valor que se expresa en cada Gen por observación, donde se deja un 0 para aquellos genes que no se encuentran activos (que no superaron el umbral) se deja un 1 para los genes que superan el umbral y que se encuentran activos.

Eliminamos los genes que no se encuentren expresados en al menos el 20% de las observaciones, resultando 9122 genes que se encuentran expresados en al menos el 20% de las muestras

```
head(Matriz_Normal_Tumor_binario_filtrado)
```

##	sample_type	LRIF1	MAST2	RAB22A	TRAP1	STAT2	BMPR2	FYN	PARD6B	CHUK	TRAF2
## 1	Primary Tumor	0	1	0	0	0	1	0	1	1	1
## 2	Primary Tumor	0	1	0	1	1	1	0	0	1	0
## 3	Primary Tumor	0	0	0	0	0	0	0	0	0	0
## 4	Primary Tumor	0	0	0	1	1	1	0	0	1	0
## 5	Primary Tumor	0	1	0	1	1	1	0	1	1	0
## 6	Primary Tumor	0	0	0	1	0	0	0	1	1	0

##	PNRC1	HOXD4	GUCA1B	FGF4	GADD45G	KDR	LDLRAP1	PRKCB	MDM2	KIT	MAPK1	TRAF1	CA12
## 1	0	0	1	0	1	1	0	0	1	1	0	1	0
## 2	0	0	1	0	1	1	1	0	1	1	0	1	0
## 3	0	0	1	0	1	1	1	0	0	1	0	1	0
## 4	0	0	1	0	1	0	1	0	1	1	0	1	0
## 5	0	0	1	0	1	0	1	0	1	0	0	1	0
## 6	0	0	1	0	1	0	1	0	1	0	0	1	0
##	NFASC	NUDT21	UBE2I	KCTD13	BMX	USP33	LCK	PTPRS	SIN3A	EIF6	ATP5F1A	ITGB1BP1	JUN
## 1	1	1	1	1	1	0	1	1	1	1	1	1	0
## 2	0	1	0	1	1	0	1	1	0	0	0	1	0
## 3	0	1	0	1	1	0	1	1	0	0	0	1	0
## 4	0	1	0	1	1	0	1	1	0	0	0	1	0
## 5	0	1	0	1	1	0	1	1	0	0	1	1	0
## 6	0	0	0	1	1	0	1	1	0	0	0	1	0
##	CEP126	GGA2	CNR2	NA	RBBP4	TNFRSF10A	CASP8	BAZ1A	HSH2D	WNT1	FLNA	EP300	UTP14A
## 1	1	0	0	1	0	1	0	1	0	1	0	1	0
## 2	0	0	0	0	1	1	0	1	0	1	0	1	0
## 3	0	0	0	0	0	1	0	1	0	0	0	0	0
## 4	0	0	0	0	0	1	0	1	0	1	0	1	0
## 5	0	0	0	0	0	1	0	1	0	1	0	1	0
## 6	0	0	0	0	0	1	0	1	0	0	0	1	0
##	PUF60	CDK13	ABL1	TFG	SPOP	GAPDH	CCL5	P2RY2	SELL	ACTA1	MCAM	SUV39H2	CDC25B
## 1	1	1	0	0	0	0	1	0	0	0	1	0	1
## 2	1	1	0	1	1	1	1	0	0	0	1	0	0
## 3	0	1	0	0	0	0	1	0	0	0	1	0	0
## 4	1	1	0	1	1	0	1	0	0	0	1	0	1
## 5	1	1	1	1	0	1	1	0	0	0	1	0	1
## 6	0	1	0	0	0	0	1	0	0	0	1	0	1
##	SSBP4	FN1	CRMP1	SUMO4	PELP1	EIF2AK2	DRD2	UBQLN4	ACTN4	ACVR2B	RALYL	PSEN1	
## 1	1	1	1	0	0	1	1	0	0	0	1	0	
## 2	0	1	1	1	1	1	0	0	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	1	0	
## 4	0	1	1	0	0	1	1	0	0	0	1	0	
## 5	0	1	1	0	1	1	1	0	0	0	1	0	
## 6	0	1	1	0	0	1	1	0	0	0	1	0	
##	SEPTIN5	MAPK14	TBP	GSK3B	RNF2	IFNGR2	TLR3	SLC2A1	ZMYND19	PTPN4	PPP1R9B	ING2	
## 1	1	1	0	0	1	1	1	0	0	0	0	0	
## 2	1	0	0	0	0	1	1	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	0	0	1	1	0	0	0	0	0	
## 5	1	1	0	0	0	1	0	0	0	0	0	0	
## 6	1	1	0	0	0	1	0	0	0	0	0	0	
##	DVL1	PLSCR1	DAB1	SSTR1	KCNK3	BMPR1B	PDCD10	PRKCG	UBE2I	CREBBP	CLTCL1	MMP7	
## 1	1	1	0	0	1	0	0	1	0	0	0	0	
## 2	1	1	0	0	1	0	0	1	0	0	0	0	
## 3	0	1	0	0	1	0	0	0	0	0	0	0	
## 4	1	1	0	1	1	0	0	1	0	0	0	0	
## 5	1	1	0	0	1	0	0	1	1	0	0	0	
## 6	1	1	0	0	1	0	0	0	0	0	0	0	
##	UNC119	TSC22D1	BEND5	WWTR1	STK11	ALK	APOB	TTR	TUBA4A	CTNBL1	PKM	MARK4	RAN
## 1	1	0	1	1	1	1	1	1	1	1	0	0	0
## 2	0	0	1	1	1	1	0	1	1	0	0	0	0
## 3	0	0	0	1	1	0	0	0	1	0	0	0	0
## 4	1	0	0	1	1	0	0	1	1	0	0	0	0

## 5	1	0	1	1	1	0	0	1	1	0	0	0	0		
## 6	1	0	0	1	1	0	0	0	1	0	0	0	0		
##	KIAA0930	NOMO1	HSP90AA1	NDUFS7	XRCC6	MSN	MBD3	KAT2B	NRIP1	EIF6	PAK2	TFPI2			
## 1	0	1	0	1	0	0	1	1	1	0	0	0			
## 2	0	1	0	0	0	0	1	1	1	0	0	1			
## 3	0	0	0	0	0	0	1	1	0	0	0	1			
## 4	0	1	0	1	0	0	1	1	1	0	0	1			
## 5	0	1	0	1	0	0	1	1	1	0	0	0			
## 6	0	0	0	1	0	0	1	1	1	0	0	1			
##	EEF1A1	COL3A1	F11R	TAC1	AMOTL2	SUMO3	YAE1	NDOR1	TNFRSF11A	CFP	C3AR1	PTPN6			
## 1	0	1	0	0	1	1	1	1	1	1	1	1			
## 2	0	0	0	1	1	0	1	0	1	1	1	1			
## 3	0	0	0	0	1	0	1	0	0	1	1	1			
## 4	0	1	0	1	1	1	1	0	1	1	1	1			
## 5	1	1	0	1	1	0	1	1	1	1	1	1			
## 6	0	1	0	1	1	0	1	0	0	1	1	1			
##	CCDC85B	C8orf33	LMNB1	CAMK2A	ANXA7	EZR	SEMA4F	GLP2R	ANXA7	PPP1R9A	GABRA1				
## 1	1	0	1	0	1	0	0	0	1	1	1				
## 2	1	0	0	0	1	0	0	0	1	1	0				
## 3	1	0	0	0	1	0	0	0	1	1	0				
## 4	1	0	1	0	1	0	0	0	1	1	0				
## 5	1	0	1	0	1	0	0	0	1	1	0				
## 6	1	0	0	0	1	0	0	0	1	1	0				
##	CALCOCO2	MAP2K4	RB1	BCL2	S1PR1	WIPF1	TGFBR1	CHUK	ATM	AMPH	YWHAG	ESR1	YWHAB		
## 1	1	0	0	1	0	0	0	1	0	0	1	1	1		
## 2	1	0	0	1	0	0	0	0	0	0	1	1	0		
## 3	1	0	0	1	0	0	0	0	0	0	0	1	0		
## 4	1	0	0	1	0	0	0	1	1	0	1	1	0		
## 5	1	0	0	1	0	0	0	1	1	0	1	1	0		
## 6	1	0	0	1	0	0	0	1	0	0	1	1	0		
##	STK11	TOPBP1	CCDC85B	IMPA2	SH3BP5	ZNF250	CTSS	TNFRSF17	ZNF512B	MSH2	RBBP7				
## 1	0	1	0	0	1	1	1	1	1	1	1	1			
## 2	0	1	0	0	0	1	1	1	1	1	1	0			
## 3	0	1	0	0	0	0	0	0	0	0	1	0			
## 4	0	1	0	1	1	0	1	1	1	1	1	1			
## 5	0	1	0	0	0	0	1	1	1	1	1	1			
## 6	0	1	0	0	0	0	1	0	0	0	1	1			
##	MDFI	NA	CTDP1	SUMO1	THRA	RGS4	CALM3	EZR	MAP3K7	HLF	GJA3	RB1	HDAC1	SDC4	MTOR
## 1	0	1	1	1	0	1	1	1	1	1	1	0	0	0	1
## 2	0	1	0	1	1	1	1	1	0	1	1	0	1	0	0
## 3	0	1	0	0	0	0	1	1	0	1	0	0	0	0	0
## 4	0	1	0	1	1	1	1	1	1	1	0	0	1	0	0
## 5	0	1	1	1	1	0	1	1	0	1	1	0	1	0	0
## 6	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0
##	FFAR1	PRKDC	MAPT	IP013	RPSA	PDGFRB	CTNND1	ROBO1	MGMT	TAF1C	PTK2B	ZXDC	CDH5		
## 1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	
## 2	0	0	0	0	0	1	0	1	1	1	0	1	1	0	
## 3	0	1	0	0	0	1	0	0	0	0	0	0	1	0	
## 4	0	1	0	1	1	1	1	1	1	1	1	0	1	0	
## 5	0	0	0	0	1	1	1	1	1	1	1	0	1	0	
## 6	0	0	0	1	1	1	1	1	1	1	1	0	1	0	
##	SMAD9	DOK1	ZAP70	VASP	ARR3	PTPN12	PPP2R1A	ACTB	TOM1L1	UBQLN4	AKAP11	ATXN1			
## 1	1	1	1	0	0	1	0	1	1	0	1	0			
## 2	1	1	1	0	0	0	0	0	1	1	1	0			

## 3	1	1	1	0	0	0	0	0	0	0	1	0		
## 4	1	1	1	0	0	0	0	1	1	0	1	0		
## 5	1	1	1	0	0	1	0	0	1	0	1	0		
## 6	1	1	1	0	0	0	0	0	1	0	0	0		
##	ARHGAP1	L1CAM	RBM12	PAK5	LRIF1	PSMA1	TUBB2A	TAB1	IFNAR1	RHOQ	UBE2I	LILRB1	ATM	
## 1	1	0	1	1	1	1	0	0	0	0	0	1	0	
## 2	1	0	1	1	0	0	0	0	0	0	0	0	0	
## 3	1	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	1	1	1	1	0	0	0	0	0	1	0	
## 5	1	0	1	1	0	1	0	0	0	0	0	1	0	
## 6	0	0	1	1	0	0	0	0	0	0	0	0	0	
##	NFKBIA	RAB11FIP2	TJP1	IMMT	SET	VIPR2	PPP1CC	SYK	SERPINB9	UNC119	C3	LRIF1		
## 1	1	0	1	1	0	0	1	0	0	0	1	0		
## 2	1	0	1	0	0	0	1	0	0	0	0	0		
## 3	1	0	0	0	0	0	0	0	0	0	0	0		
## 4	1	0	1	1	0	1	1	1	0	0	0	1		
## 5	1	1	1	1	0	1	0	0	0	0	0	0		
## 6	1	0	1	1	0	1	0	0	0	0	0	0		
##	SYTL4	CDK9	PAPPA2	TBP	TK1	TRAF2	LCK	C1D	SMAD1	PMCH	TSPYL2	ATXN1	FCGR3A	STUB1
## 1	0	0	1	1	0	0	0	1	1	0	0	1	0	0
## 2	0	0	1	0	1	0	0	1	0	0	0	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	1
## 4	0	0	1	1	0	0	0	0	0	0	0	1	0	1
## 5	0	0	1	1	0	0	0	1	0	0	0	1	0	1
## 6	0	0	1	1	0	0	0	0	0	0	0	1	0	0
##	KCNJ11	PTMA	HBA1	CAV1	RAB5B	ITGB4	MRFAP1	SOSTDC1	TXNIP	GRM5	TNFRSF10A	PTPN6		
## 1	1	0	0	0	0	1	1	1	1	1	0	1		
## 2	1	0	0	0	0	1	1	1	1	1	0	0		
## 3	1	0	0	0	0	1	0	0	1	0	0	0		
## 4	1	0	0	0	0	1	1	1	1	1	1	1		
## 5	1	1	0	0	0	1	1	1	1	1	1	0		
## 6	1	0	0	0	0	1	1	1	1	1	1	0		
##	PRKAA1	PTPRJ	NR5A1	PRKCA	EDA	ARHGEF1	MET	SRC	SCMH1	CTNNB1	ARRB1	HRAS	PRKAR2B	
## 1	0	1	0	1	0	1	1	0	0	0	0	0	1	
## 2	0	0	0	0	1	0	1	0	0	0	0	0	1	
## 3	0	0	0	0	1	0	0	0	0	0	0	0	1	
## 4	0	0	0	0	1	0	1	0	0	0	0	0	1	
## 5	0	0	0	0	1	0	1	0	0	0	0	0	1	
## 6	0	0	0	0	1	0	1	0	0	0	0	0	1	
##	ITGA2	JUN	HEY1	GNB1	LAMA4	RAF1	MAP2K7	RASA1	MDM2	SH3GL1	MAPK8IP2	LAMTOR1		
## 1	1	1	1	1	0	0	0	0	1	1	0	1		
## 2	1	1	1	1	0	0	0	0	1	0	0	0		
## 3	0	0	0	1	0	0	0	0	0	0	0	0		
## 4	1	1	1	1	0	0	0	0	1	1	0	1		
## 5	1	1	1	1	0	0	0	0	1	1	0	1		
## 6	1	1	1	1	0	1	0	0	1	0	0	1		
##	MAP3K10	YAE1	CSNK2A1	NRP2	NTRK2	RPL10	PDLIM7	PTN	ACE2	ERBB2	SYNJ1	RACK1	IL4R	
## 1	0	0	0	0	1	0	1	0	1	1	1	0	0	
## 2	0	0	1	0	0	0	1	0	1	1	1	0	1	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 4	0	0	1	0	1	0	1	0	1	1	1	0	0	
## 5	0	0	1	0	1	0	1	0	1	1	1	0	0	
## 6	0	0	1	0	1	0	1	0	1	0	1	0	0	
##	SPP1	MUC1	RAB11A	TNNT1	ELK1	SNRPD3	EHMT2	FHL3	TP73	NFATC2	PRKAR1A	SERPIND1		

## 1	1	1	0	1	1	0	0	1	1	1	1	0	
## 2	1	0	0	1	1	0	1	1	0	0	0	0	
## 3	1	0	0	1	1	0	0	0	0	0	0	0	
## 4	1	1	0	1	1	0	0	1	0	0	0	0	
## 5	1	1	0	1	1	0	0	1	0	0	0	0	
## 6	1	1	0	1	1	0	0	1	0	0	0	0	
##	EDN1	TUB	TK1	SQSTM1	CD82	GRB2	CEBPA	SPTBN4	SMURF2	NOTCH1	S100B	YWHAZ	PTPN6
## 1	0	1	1	1	1	1	1	0	0	0	0	0	1
## 2	0	0	1	0	1	1	0	0	0	0	0	1	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1
## 4	0	1	1	1	1	0	0	0	0	0	0	1	1
## 5	0	1	1	0	1	0	0	0	0	0	0	1	1
## 6	0	1	0	1	1	0	0	0	0	0	0	1	1
##	PLSCR1	PSME3	IL1R1	YWHAQ	FYN	GRM7	CBFB	MAF1	STOM	FGF7	SMAD2	TNFRSF14	IKZF5
## 1	0	1	0	1	1	1	0	0	1	0	1	1	0
## 2	0	0	0	1	1	1	0	0	0	0	1	0	0
## 3	0	0	0	1	0	0	0	0	0	0	1	0	0
## 4	0	0	0	1	1	1	0	0	0	0	1	1	0
## 5	0	1	0	1	1	1	0	0	0	0	1	1	0
## 6	0	0	0	1	1	0	0	0	0	0	1	0	0
##	SPRY2	PTK2	IGF2	BTB	ELF3	ASIC3	TNPO1	MTIF2	EGFR	HDAC9	ADORA2A	PTPN6	GMFB
## 1	1	0	1	0	1	1	1	1	0	1	1	0	1
## 2	0	0	1	0	1	1	1	0	0	1	1	0	0
## 3	0	0	0	0	1	1	1	0	0	1	0	0	0
## 4	0	0	1	0	1	1	1	1	0	1	1	0	1
## 5	0	0	1	0	1	1	1	1	1	1	1	0	1
## 6	0	0	1	0	0	1	1	0	1	1	1	0	0
##	TGIF1	TFAP2A	MAP1B	PIGR	TRA2B	DMD	GTF3C1	STAT2	PIP4K2A	MCM7	STAT1	ZAP70	
## 1	0	0	1	0	0	1	1	1	0	1	0	0	
## 2	0	0	1	0	0	1	0	0	0	1	0	0	
## 3	0	0	1	0	0	0	0	0	0	1	0	0	
## 4	0	0	1	0	0	1	1	1	0	1	0	0	
## 5	0	0	1	0	0	1	1	1	0	1	0	0	
## 6	0	0	0	0	0	1	0	1	0	0	0	0	
##	TRIM24	NGFR	PKMYT1	TSHR	BMP1	PRKDC	EIF2S2	EPB41	UBB	CCDC85B	AXIN1	GNAO1	GTF2I
## 1	1	0	1	1	0	0	1	0	0	0	1	1	0
## 2	0	0	1	1	0	0	0	0	0	0	1	1	0
## 3	0	0	1	1	0	0	0	0	0	0	0	1	0
## 4	0	0	1	1	0	0	0	0	0	0	1	1	0
## 5	0	0	1	1	0	0	1	0	0	0	1	1	0
## 6	0	0	1	1	0	0	0	0	0	0	1	1	0
##	DNM1	STAT1	CALM1	ITSN2	CSNK1E	ACTA1	BTRC	BRCA2	ZZEF1	MAD2L1	CHUK	GADD45A	
## 1	1	1	1	1	0	1	1	1	1	1	1	0	
## 2	1	1	0	1	0	0	0	0	1	1	1	0	
## 3	1	1	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	1	0	0	1	1	1	1	1	0	
## 5	1	1	0	1	0	0	1	1	1	1	1	0	
## 6	1	1	0	1	0	0	0	0	1	1	1	0	
##	LILRB1	RHOA	GAD2	MAP4K2	NCOA1	SHC1	NFKBIA	CSNK2A1	CALM1	SHC1	ACP5	AGAP1	SUMO4
## 1	1	0	1	0	0	0	1	0	0	0	1	0	0
## 2	1	0	1	0	0	0	1	0	1	0	1	0	0
## 3	1	0	0	0	0	0	1	0	0	0	0	0	0
## 4	1	0	1	0	0	0	1	0	0	0	1	0	0
## 5	1	0	1	0	0	0	1	0	0	0	1	0	0

## 6	1	0	1	0	0	0	1	0	0	0	0	0	0
##	JAK2	LIPE	MCF2	MAPK3	LMNB1	SRSF1	BARD1	YHAZ	IRAK1	SEPTIN8	TRAF2	LENG1	KPNB1
## 1	1	1	1	0	1	1	0	0	1	1	0	1	0
## 2	1	1	1	0	1	0	1	0	1	1	0	1	1
## 3	0	0	0	0	1	0	0	0	1	1	0	0	0
## 4	1	1	1	0	1	1	0	0	1	1	0	1	1
## 5	1	1	1	1	1	0	1	0	1	1	0	0	1
## 6	0	1	1	0	1	0	0	0	1	1	0	0	1
##	ANXA7	PPP2CA	UBAP2L	ECH1	BRCA2	RBL1	RFC1	NR2C2	PARP1	MAGED1	PTPN13	MAPK8IP2	
## 1	1	1	1	1	1	0	0	1	0	1	0	1	
## 2	1	0	1	1	1	0	0	1	1	0	0	1	
## 3	1	0	0	1	1	0	0	0	0	0	0	0	
## 4	1	1	1	1	1	0	0	1	1	0	0	1	
## 5	1	1	1	1	1	0	0	1	1	0	0	0	
## 6	1	1	0	1	1	0	0	1	1	0	0	0	
##	SMAD2	PLK1	ABL1	CBFB	TNFRSF8	NFKBIA	GRB2	YY1	PAK1	PRLR	SAP30	PER3	PTPN11
## 1	1	1	0	0	0	1	1	0	1	0	1	0	1
## 2	1	0	0	0	0	1	1	0	1	0	1	0	1
## 3	1	0	0	0	0	1	0	0	0	0	1	0	1
## 4	1	1	0	0	0	1	1	0	1	0	1	0	1
## 5	1	1	0	0	0	1	1	0	1	0	1	0	1
## 6	1	1	0	0	0	1	1	0	0	0	1	0	1
##	BRCA1	EIF2AK1	CBL	IL37	TFPI	RARA	CASP7	VDR	PRMT2	NCL	C11orf49	AMFR	TRIM24
## 1	1	1	1	1	0	0	1	0	0	1	1	0	1
## 2	0	0	0	1	0	0	0	0	0	0	1	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1
## 4	1	1	1	1	0	0	1	0	0	1	1	0	1
## 5	1	1	1	1	0	0	1	0	0	0	1	0	1
## 6	0	0	0	1	0	0	1	0	0	1	0	0	1
##	HNRNPC	PIK3R1	MAP4K2	MASP1	FHL1	ADORA2B	GNAQ	SREBF1	KRTAP4-12	KCNK9	SHANK1		
## 1	0	0	0	0	1	0	1	1	0	0	1		
## 2	0	0	0	0	1	0	0	0	0	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	0	0	0	1	0	1	0	0	0	0		
## 5	0	0	0	0	1	0	1	0	0	0	0		
## 6	0	0	0	0	1	0	1	0	0	0	0		
##	CIRBP	MAP7D1	THOC7	EGFR	HMGAI	KAT2B	RPS6KB1	DCTN1	EEF1G	PSMF1	HLA-B	RNF138	
## 1	1	1	1	1	1	1	0	1	1	0	1	0	
## 2	1	0	1	0	0	1	0	1	1	0	1	0	
## 3	1	0	1	0	0	1	0	1	1	0	1	0	
## 4	1	0	1	0	0	1	1	1	1	0	1	0	
## 5	1	0	1	0	1	1	1	1	1	0	1	0	
## 6	1	0	1	0	0	1	1	1	1	0	1	0	
##	ABI1	IGFBP4	SUMO4	TXN	HRK	NEDD4	CSNK2A1	LCK	XRCC6	EHMT2	NPFF	PDK2	CARM1
## 1	0	0	1	0	0	0	1	0	0	1	0	0	1
## 2	0	0	1	0	0	0	0	1	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	1	0	0	0
## 4	0	0	1	1	1	0	1	0	0	1	0	0	1
## 5	0	0	1	0	1	0	1	0	0	1	0	0	1
## 6	0	0	1	0	1	0	0	0	0	1	0	0	1
##	PTPRZ1	MAPK8	DKC1	SUV39H1	POLA1	HK2	CD47	PSMA7	HSPB1	PHC2	TACC3	ESR1	TRAF2
## 1	1	1	1	1	0	1	1	1	1	0	1	1	0
## 2	1	1	1	0	0	1	0	0	1	0	0	1	0
## 3	1	0	0	0	0	1	0	0	0	0	0	0	0

## 4	1	0	1		1	1	1	0	1	1	0	0	1	0
## 5	1	0	1		1	1	1	0	1	1	0	0	1	0
## 6	1	0	0		0	0	1	0	1	0	0	0	1	0
##	CBL	EGFR	GTF2B	PDGFRB	SNW1	ATN1	GIT1	BARD1	DLG3	ATXN1	PSMD11	HSF1	RASIP1	DOK4
## 1	0	1	1	1	0	1	0	1	1	0	1	1	0	1
## 2	1	1	1	1	0	0	0	0	0	0	1	1	0	0
## 3	0	0	1	0	0	0	0	0	0	0	1	1	0	0
## 4	0	1	1	1	0	0	0	0	1	0	1	1	0	0
## 5	0	1	1	1	0	0	0	0	1	0	1	1	0	0
## 6	0	0	1	1	0	0	0	0	0	0	1	1	0	0
##	ERG28	TOPBP1	ADRB2	DNMT3B	RGS7	PLA2G4A	H3-4	EFNB2	AP1M1	EWSR1	MAPK7	LTBR	LRP1	
## 1	1	0	1	1	0		1	0	1	0	1	0	1	1
## 2	0	0	1	0	0		1	0	1	0	1	0	1	1
## 3	0	0	1	0	0		0	0	1	0	1	0	1	1
## 4	1	0	1	1	0		1	0	1	0	1	0	1	1
## 5	1	0	1	1	0		1	1	1	0	1	0	1	1
## 6	0	0	1	1	0		1	0	1	0	1	0	1	1
##	TGFBR2	NR4A1	MDM2	NFKBIA	WASF3	ROCK1	EFEMP2	GNAI3	SRF	CASP7	TAF1D	PTPN6		
## 1	1	0	1	0	0	1	1	1	1	0	0	0		
## 2	1	1	1	0	0	1	1	1	1	0	0	0		
## 3	1	0	1	0	0	0	0	1	0	0	0	0		
## 4	1	1	1	0	0	1	1	1	1	0	0	0		
## 5	1	1	1	0	0	1	1	1	1	0	0	0		
## 6	1	0	1	0	0	0	1	1	1	0	0	0		
##	RANGAP1	AURKB	CCDC85B	CCNA2	PTGER2	SUV39H1	CSNK2A2	PDGFB	ITSN1	EXOSC6	CXCR4			
## 1	0	1	1	1	0	1	1	0	1	1	1	1		
## 2	0	1	1	1	0	0	0	0	0	1	1	1		
## 3	0	1	1	1	0	0	0	0	0	1	1	0		
## 4	0	1	1	1	0	0	0	1	0	1	1	0		
## 5	0	1	1	1	0	0	0	1	0	0	1	0		
## 6	0	1	1	1	0	0	0	0	0	0	1	0		
##	GNAI1	RHOXF2	DMTN	FHL3	PXN	SUFU	CASP2	HCLS1	TBC1D1	ACTA1	BAK1	RELA	GZMB	HDAC2
## 1	0	0	0	0	1	0	1	1	1	1	1	1	1	1
## 2	1	0	0	0	1	0	0	0	1	1	1	0	1	1
## 3	0	0	0	0	0	0	0	0	0	1	0	0	0	1
## 4	1	0	0	0	0	1	0	0	1	1	1	1	1	1
## 5	1	0	0	0	0	0	0	1	1	1	1	1	1	1
## 6	1	0	0	0	0	0	0	0	1	1	1	0	0	1
##	CSNK2A1	NPY5R	GHR	ESR1	ZNF417	EEF1G	MCF2L	LMNA	SYT17	EGFR	EPHA2	DLG3	MINK1	
## 1	1	0	0	1	0	1	1	0	1	0	0	1	0	
## 2	1	0	0	1	0	0	1	0	1	0	0	1	0	
## 3	1	0	0	1	0	0	0	0	1	0	0	1	0	
## 4	1	0	1	1	0	0	1	0	0	0	0	1	0	
## 5	1	0	1	1	0	0	1	0	0	0	0	1	0	
## 6	1	0	1	1	0	0	1	0	0	0	0	1	0	
##	CSNK2A2	LRP3	MYO15B	RARA	ACKR2	PPARG	FKBP3	FOX P1	FOX01	MDFI	TGM2	NR3C1	HLA-C	
## 1	1	1	1	1	1	0	1	1	1	1	1	1	1	1
## 2	0	1	1	1	1	0	0	1	1	1	0	0	1	1
## 3	0	0	1	0	1	0	0	1	1	1	0	0	0	0
## 4	0	1	1	1	1	0	0	1	1	1	1	1	1	1
## 5	1	1	1	1	1	0	0	1	1	1	1	1	1	1
## 6	0	1	1	1	1	0	0	1	1	1	0	1	1	1
##	CASP3	LSM7	TTF2	FZD5	CDK9	COL13A1	MAPK7	LCK	PRKAR1A	OPRK1	PRKCD	CCND1	DAP3	
## 1	1	0	0	0	1	1	1	0	1	1	1	1	0	

## 2	1	0	0	0	1	0	0	0	1	1	1	1	0	
## 3	1	0	0	0	1	0	0	0	1	1	0	0	0	
## 4	1	0	1	0	1	0	1	0	1	1	1	1	0	
## 5	1	0	0	0	1	0	0	0	1	1	1	1	0	
## 6	1	0	0	0	1	0	0	0	1	1	1	1	0	
##	PPBP	YY1	MYD88	LMNA	CALM1	PTPRM	BCL2L1	CREBBP	GNA12	CASK	ACTN2	PTMA	IGSF1	SST
## 1	1	0	0	0	0	1	1	0	0	1	1	1	1	1
## 2	1	0	0	0	1	0	1	0	1	1	1	1	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
## 4	1	0	1	0	1	0	1	0	1	1	1	1	1	1
## 5	1	0	1	0	1	0	1	0	1	1	1	1	1	1
## 6	1	0	1	0	1	1	1	0	1	1	1	0	0	1
##	HNF4A	IRS2	PAK2	TRAF4	CCNK	IGHM	OLFM2	HRAS	PDCD5	ACVR1	ACTL6A	BMP2	AR	CASP3
## 1	0	0	1	1	1	1	1	0	1	0	1	0	1	0
## 2	0	0	1	0	1	1	0	0	1	0	1	0	0	0
## 3	0	0	1	0	0	1	0	0	0	0	1	0	0	0
## 4	0	0	1	0	1	1	1	0	0	0	1	0	0	0
## 5	0	0	1	0	1	1	1	0	0	0	1	0	0	0
## 6	0	0	1	0	1	1	0	0	0	0	1	0	0	0
##	CTSD	PTPN11	RPS6KA3	CDC42	CDC42	RAB11A	PSEN1	GIT1	FADD	SMC3	NFKB1	UCP2	AMBP	
## 1	1	0	1	0	0	1	1	0	1	1	1	1	1	1
## 2	1	0	0	0	0	1	0	1	0	1	1	1	1	1
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	1	0	0	1	0	0	1	1	1	1	1	1
## 5	1	0	1	0	0	1	0	0	1	1	1	1	1	1
## 6	1	0	0	0	0	0	0	0	0	0	0	0	0	1
##	GBP2	UBQLN4	CTR9	BCL2L1	RET	UBA52	SERPINA5	GRB2	NTRK2	CCR5	ERBB2	HLA-C	LSM3	
## 1	1	0	1	1	1	0	0	1	1	0	0	1	1	1
## 2	1	0	1	1	0	0	0	1	1	0	0	0	0	1
## 3	1	0	0	1	0	0	0	1	0	0	0	0	0	1
## 4	1	1	1	1	0	1	0	1	1	0	0	0	0	1
## 5	1	0	1	1	0	0	0	1	1	0	0	0	0	1
## 6	1	0	1	1	0	0	0	1	1	0	0	0	0	1
##	PARD6A	RAC1	MSC	PRRC2A	GADD45G	MYD88	HMOX2	CTNND1	GRB2	APOA1	HDAC5	DTX2		
## 1	0	1	0	1	1	1	1	1	0	1	0	0	0	
## 2	0	1	0	0	1	1	1	1	0	1	0	1	1	
## 3	0	1	0	0	0	0	0	0	1	0	0	0	0	
## 4	0	1	0	0	1	1	1	1	0	1	1	1	0	
## 5	0	1	0	0	1	1	1	1	0	1	0	1	1	
## 6	0	1	0	0	0	0	1	1	0	0	1	0	0	
##	HDGFL3	ELOB	NOC4L	RAB1F	NCOA2	DAPK3	MRPL37	ERN1	HMGB1	MCM2	MAPK14	ATP5F1A	FYN	
## 1	1	1	1	1	1	1	0	0	0	1	1	1	0	
## 2	1	1	1	0	1	1	0	0	0	1	1	1	1	
## 3	0	1	0	0	1	1	0	0	0	0	1	0	0	
## 4	1	1	1	1	1	1	0	0	0	0	1	1	0	
## 5	1	1	1	1	1	1	0	1	0	0	1	1	0	
## 6	0	1	1	0	1	1	0	0	0	0	1	1	0	
##	MYC	MAP1LC3B	HOXC8	GRB2	SMURF2	OSGEP	ATP6V1E1	AKT1	COPS5	MARK2	ESR2	YWHAG		
## 1	1	1	1	1	0	1	0	0	0	1	1	0	0	
## 2	1	1	1	1	1	1	0	0	0	1	1	0	0	
## 3	0	0	1	1	0	1	0	0	0	0	1	0	0	
## 4	0	0	1	1	1	1	0	0	0	1	1	0	0	
## 5	0	0	1	1	1	1	0	0	0	1	1	0	0	
## 6	0	0	1	1	0	1	0	0	0	1	1	0	0	

##	POLDIP2	GRN	HTT	SNRNP40	RAG1	PRKAR1A	SMAD2	DAP	SKIL	HNRNPA0	VWF	ETV6	RXFP1	
## 1	1	1	0	1	1	1	1	1	0	0	1	0	0	
## 2	0	0	0	1	1	1	1	1	0	0	0	0	0	
## 3	0	0	0	0	1	1	1	1	0	0	0	0	0	
## 4	0	1	0	1	1	1	1	1	0	0	0	0	1	
## 5	1	1	0	1	1	1	1	1	0	0	1	0	0	
## 6	1	1	0	1	1	1	1	1	0	0	1	0	0	
##	CHUK	PDE4DIP	PLCG1	ETS1	SH3KBP1	ERBB2	CNTFR	KPNB1	EMD	KPNB1	TK1	NR1H2	HNF4A	
## 1	1	0	1	0	1	1	0	1	1	1	1	1	1	
## 2	1	0	0	1	1	1	0	1	1	1	1	0	1	
## 3	1	0	0	0	0	0	0	1	0	1	1	1	1	
## 4	1	0	0	0	1	1	0	1	1	1	1	0	1	
## 5	1	0	0	0	1	1	0	1	1	1	1	0	1	
## 6	1	0	0	0	0	0	0	1	1	1	1	0	1	
##	ZFPM2	INVS	TNFSF11	TIRAP	STAMBPL1	FLNC	MAPK14	RAC1	PA2G4	AGFG1	PNRC1	VIM	DVL1	
## 1	0	1	0	0	1	1	1	1	1	0	0	1	0	
## 2	0	0	0	0	1	1	0	1	1	0	0	1	0	
## 3	0	0	0	0	1	0	0	0	0	0	0	1	0	
## 4	0	0	0	1	1	1	0	0	1	0	0	1	0	
## 5	0	0	0	1	1	0	0	0	0	0	0	1	0	
## 6	0	0	0	1	1	0	0	0	0	0	0	1	0	
##	RB1	TSPAN4	KXD1	NIN	EID1	ATXN1	TEAD1	CBL	ACTN4	GATA1	GRM7	ARHGAP1	SOCS1	GFRA1
## 1	0	0	1	1	0	0	1	1	0	0	1	0	1	1
## 2	0	0	0	0	0	0	1	1	0	0	0	1	1	1
## 3	0	0	0	0	0	0	1	1	0	0	0	0	1	1
## 4	1	0	0	0	0	0	1	1	0	0	1	1	1	1
## 5	0	0	0	0	0	0	1	1	0	0	1	1	1	1
## 6	0	0	0	0	0	0	1	1	0	0	1	0	1	1
##	OPRD1	HSPD1	PIM1	LSM3	RPS6KA1	SH3KBP1	AKAP8L	EPHB1	TUBA4A	ASIC1	HSPE1	F2R		
## 1	1	1	0	0	1	1	1	1	0	1	1	1	0	
## 2	1	1	0	0	0	1	1	1	0	1	1	1	1	
## 3	1	1	0	0	0	1	1	1	0	1	1	1	0	
## 4	1	1	0	0	0	1	1	1	0	1	1	1	1	
## 5	1	1	0	0	0	1	1	1	0	1	1	1	1	
## 6	1	1	0	0	1	1	1	1	0	1	1	1	1	
##	CTSS	SKIL	DBI	PITX1	ITK	FEZ1	HSPA1A	EIF4E2	GPR183	RASGRF1	VDR	COL1A1	EWSR1	
## 1	1	1	1	1	1	0	0	0	1	1	1	1	0	
## 2	1	1	1	1	1	0	0	0	1	1	1	1	0	
## 3	1	0	0	1	0	0	0	0	0	1	1	1	0	
## 4	1	1	0	1	1	0	0	0	1	1	1	1	0	
## 5	1	1	1	1	1	0	0	0	1	1	1	1	0	
## 6	1	1	0	1	1	0	0	0	1	1	1	1	0	
##	CNTNAP1	ACTR2	TNFRSF10B	IRAK1	CALM1	MAPK14	CRP	RALGDS	NCOA1	POU2F1	EXOC8	PBX2		
## 1	1	1	0	0	1	1	1	1	1	0	0	0	0	
## 2	0	1	0	0	0	1	1	1	1	0	0	0	0	
## 3	0	1	0	0	0	0	0	1	1	0	0	0	0	
## 4	0	1	0	0	0	1	1	1	1	0	0	0	0	
## 5	1	1	0	0	0	1	1	1	1	0	1	0	0	
## 6	0	1	0	0	0	1	1	1	1	0	0	0	0	
##	PRKCA	SMAD3	WWTR1	DDX24	MAPKAPK3	SAP30	ARHGEF12	PRKACA	ATF7IP	CDC20	PFDN1			
## 1	1	1	0	0	0	0	0	0	1	1	1	0	0	
## 2	1	1	0	0	0	0	0	0	1	1	0	0	0	
## 3	1	1	0	0	0	0	0	0	1	0	0	0	0	
## 4	1	1	0	0	0	0	0	0	1	1	0	1	1	

## 5	1	1	0	0	0	0	0	1	1	0	1	
## 6	1	1	0	0	0	0	0	1	1	0	1	
##	GABPA	PPIA	BTG1	TNFRSF1A	TUBA1B	CAVIN2	PARD3	ITGB1	RBM48	EEF1D	FLII	S1PR1
## 1	1	1	1	0	1	1	1	1	0	0	0	1
## 2	0	1	0	0	1	0	1	1	0	0	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	1
## 4	1	1	0	0	1	0	1	0	1	0	0	1
## 5	1	0	1	0	1	0	1	1	0	0	0	1
## 6	0	1	0	0	1	0	1	0	0	0	0	1
##	TBC1D5	PBK	PRPH2	POLR2D	ACTA1	PSMD11	PRKCA	JAK1	PRRC2A	REPS2	CDH1	DDR1
## 1	0	0	1	0	1	0	1	1	0	1	1	1
## 2	1	0	0	0	1	0	0	1	0	1	1	1
## 3	1	0	0	0	0	0	0	1	0	1	1	1
## 4	0	0	0	0	1	0	1	1	0	1	1	1
## 5	0	0	0	0	0	0	1	1	0	1	1	1
## 6	0	0	0	0	0	0	1	1	0	1	1	1
##	MSX2	SERPINH1	FGG	MAPK8IP3	PRRC2A	WPP1	PTPRC	NR2F2	BIRC2	NEK6	SKIL	EIF4B
## 1	1	0	0	1	1	1	1	1	0	1	0	1
## 2	0	0	0	1	1	1	1	1	1	1	0	1
## 3	0	0	0	1	0	0	1	1	0	0	0	0
## 4	0	1	0	1	1	1	1	1	1	0	1	1
## 5	0	1	0	1	1	1	1	1	1	0	1	1
## 6	0	1	0	1	1	1	1	1	1	0	1	0
##	PRKCG	TBC1D4	DOK1	RASA1	ABL1	NTRK1	CCR9	PDZK1	SMAD5	IL1RL1	AMPH	L1CAM
## 1	0	1	0	1	0	1	0	0	0	1	0	1
## 2	0	1	0	1	0	1	0	0	0	1	0	1
## 3	0	1	0	0	0	1	0	0	0	1	0	1
## 4	0	1	0	1	0	1	0	0	0	1	0	1
## 5	0	1	0	1	0	1	0	0	0	1	0	1
## 6	0	1	0	1	0	1	0	0	0	1	0	1
##	SP3	UBE2E3	MDK	BTK	AR	UBQLN4	PSMC5	LMO2	SAA1	KRT8	NRXN1	EIF2AK2
## 1	1	1	0	1	1	0	0	1	1	1	1	1
## 2	0	1	0	1	0	0	1	0	1	1	1	1
## 3	1	0	0	1	0	0	0	0	1	1	0	0
## 4	0	1	0	1	0	0	0	0	1	1	1	1
## 5	0	1	0	1	0	0	0	1	1	1	1	1
## 6	0	1	0	1	0	0	0	1	1	1	1	1
##	YJU2B	NMT1	IER3IP1	ZNF580	TGFBR1	RAF1	EPHA2	GPRASP1	ACLY	SRC	RBFOX1	CSNK2B
## 1	1	1	1	1	1	1	0	0	0	1	1	1
## 2	1	1	1	0	1	1	0	0	0	1	1	1
## 3	0	1	1	0	0	0	0	0	0	0	0	0
## 4	1	1	1	0	0	1	0	0	0	1	1	1
## 5	1	1	1	0	0	1	0	0	0	1	1	1
## 6	1	1	1	0	0	1	0	0	0	1	0	1
##	IL1RAP	ELOB	SRGN	RCAN1	RUNX1T1	MET	LRRC4C	SMAD3	GLUL	ARNT2	MTREX	TK1
## 1	0	0	0	1	1	1	0	0	1	1	1	1
## 2	0	0	0	1	1	1	0	0	0	1	1	0
## 3	0	0	0	1	1	0	0	0	0	1	0	0
## 4	0	0	1	1	1	1	0	0	0	1	1	0
## 5	0	0	1	1	1	1	0	0	1	0	1	0
## 6	1	0	1	1	1	1	0	0	0	0	1	0
##	TP53	CEP126	LCK	GPS1	NFATC2	ADRA2A	RAF1	SFN	PTPN6	TTR	FYN	PLSCR1
## 1	0	0	1	0	0	1	1	1	1	1	0	1
## 2	0	0	1	0	0	1	1	1	1	1	0	1

## 3	0	0	1	1	0	0	0	1	1	1	0	0	1	1
## 4	0	0	1	1	0	1	1	1	1	1	1	0	1	1
## 5	0	0	1	1	0	1	1	1	1	1	1	0	1	1
## 6	0	0	1	1	0	1	0	1	1	1	1	0	1	1
##	MAPK10	GABRR2	FYN	PIGR	CBL	UBE2V2	PRKCB	RAC1	STXBP3	BTK	FYN	ROBO1	PRKN	PTH1R
## 1	1	0	1	1	1	0	0	0	1	1	0	0	1	0
## 2	1	1	1	1	1	1	0	0	0	1	0	0	1	0
## 3	0	0	0	1	1	0	0	0	0	1	0	0	1	0
## 4	1	0	1	1	1	1	0	0	0	1	0	0	1	0
## 5	1	0	1	1	1	1	0	0	1	1	0	0	1	0
## 6	1	0	1	1	1	1	0	0	0	1	0	0	1	0
##	CD82	TSC22D4	GNAO1	TNFRSF12A	HEY2	TMSB4Y	YLP1	LEP	YWHA	LCK	RUNX3	MIEF1		
## 1	1	1	1		0	0	0	1	0	0	1	1	1	
## 2	0	0	1		0	0	0	1	0	0	1	0	1	
## 3	0	0	1		0	0	0	0	0	0	1	0	1	
## 4	0	0	1		0	0	0	1	0	1	1	0	1	
## 5	0	0	1		0	0	0	1	0	1	1	0	1	
## 6	0	0	1		0	0	0	1	0	1	1	0	1	
##	SUMO2	CCND1	HSP90AB1	SF3B1	CSNK2A1	SPTBN1	APPL2	FLAD1	ADAM19	SHC1	CUL3	PLXNB2		
## 1	1	0		1	0	0	0	0	0	1	1	1	1	
## 2	0	0		0	0	0	0	0	0	1	1	1	0	
## 3	0	0		0	0	0	0	0	0	1	1	1	0	
## 4	1	0		1	0	0	0	0	0	1	1	1	1	
## 5	1	0		0	1	0	0	0	0	1	1	1	1	
## 6	1	0		0	0	0	0	0	0	1	1	1	0	
##	EIF6	PAN2	BCL2L1	NA	H3-3A	PRKCA	CUTC	SHC1	CALR	CSPG4	PARD6A	LRIF1	BCL2L11	
## 1	0	0	1	0	0	0	0	1	0	1	1	1	1	
## 2	0	0	1	0	0	0	0	1	0	0	1	1	0	
## 3	0	0	1	0	0	0	0	1	0	0	1	0	0	
## 4	0	0	1	0	0	0	0	1	0	1	1	1	1	
## 5	0	0	1	0	0	0	0	1	0	0	1	0	1	
## 6	0	0	0	0	0	0	0	1	0	0	1	0	0	
##	CNOT7	ANAPC7	PSME1	DDX3X	SRPK2	RXRA	SH3BP2	CD93	TUBA1A	BMP5	NLGN3	HDAC1		
## 1	0	1	0	1	0	1	1	1	0	1	1	1	1	
## 2	0	1	0	1	0	1	1	0	0	1	0	0	1	
## 3	0	0	0	1	0	1	1	0	0	0	0	0	1	
## 4	0	0	0	1	0	1	1	0	0	1	1	1	1	
## 5	0	0	0	1	0	1	1	0	0	1	1	1	1	
## 6	0	0	0	1	0	1	1	0	0	0	0	0	1	
##	CREBBP	IL2RB	NA	GAPDH	MED28	CD28	CALB2	YWHA	SMAD3	YWHA	PTMA	PRKCG	LORICRIN	
## 1	1	0	1	1	0	1	0	1	0	1	0	1	0	
## 2	1	0	1	0	0	1	0	1	0	1	0	0	0	
## 3	1	0	0	0	0	0	0	0	0	1	0	0	0	
## 4	1	0	1	1	0	1	0	1	0	1	1	0	0	
## 5	1	0	1	0	0	1	0	1	0	1	1	0	0	
## 6	1	0	1	0	0	1	0	1	0	1	1	0	0	
##	SRSF1	THRA	HDAC2	C11orf58	FHIP1B	BTK	TUBB	PKM	NR1I2	TOP1	ESR2	NDUFA6	ADD1	
## 1	0	1	0		0	1	0	0	0	0	1	0	0	
## 2	0	0	0		0	1	0	0	0	0	0	0	0	
## 3	0	0	0		0	1	0	0	0	0	0	0	0	
## 4	0	0	0		0	1	0	0	0	0	0	0	0	
## 5	0	0	0		0	1	0	0	0	0	0	0	0	
## 6	0	0	0		0	1	0	0	0	0	0	0	0	
##	CEP126	FGR	HIPK1	NECTIN4	CFH	LAT	TMOD3	NEFL	SLA	IL2RB	VCAN	ACTR3	ATF1	HAP1

## 1	1	0	0	0	0	1	0	0	1	0	1	1	0	1
## 2	1	0	0	1	0	1	0	0	0	0	1	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	1	1	0	0
## 4	1	0	0	1	0	1	0	0	0	0	1	1	0	0
## 5	1	0	0	1	0	1	0	0	1	0	1	1	0	0
## 6	1	0	0	1	1	0	0	0	0	0	1	1	0	0
##	FRS2	UQCRQ	ARHGEF7	AVP	NFKB1	CCND1	CAST	PCBP1	MPL	CCNE1	ACTN2	CSNK2A1	BAX	
## 1	1	0	0	1	0	0	1	0	1	1	0	1	1	
## 2	0	0	0	0	0	0	1	0	0	0	0	1	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	1	0	
## 4	0	0	0	0	0	0	1	1	0	0	0	0	0	
## 5	0	0	0	1	0	0	1	1	0	0	0	0	0	
## 6	0	0	0	0	0	0	1	1	0	0	0	0	0	
##	BMPR1B	SH2D3C	FBXW7	S100B	CAV1	RPS6KA5	DIABLO	HUWE1	SDF4	SKP2	PTN	ABI3	RHOH	
## 1	0	1	1	1	0	0	1	1	1	1	0	0	0	
## 2	0	1	1	0	0	0	1	1	1	1	0	0	0	
## 3	0	0	1	0	0	0	1	1	0	1	0	0	0	
## 4	0	1	1	0	0	0	1	1	1	1	0	0	0	
## 5	0	1	0	0	0	0	1	1	1	1	0	0	0	
## 6	0	0	0	0	0	0	1	1	1	1	0	0	0	
##	RPA1	CSF2RB	GRB2	CTSG	YWHAG	XRCC6	TSHR	DUSP4	CDK4	NCK1	APOA1	ATF2	CTBP1	TP53
## 1	0	0	1	1	1	1	1	0	1	0	0	1	1	0
## 2	0	0	1	0	0	1	1	0	0	0	0	0	0	0
## 3	0	0	0	0	0	1	1	0	0	0	0	0	0	0
## 4	1	0	1	1	0	1	1	0	1	0	0	1	0	0
## 5	1	0	1	1	1	1	1	0	1	0	0	1	0	0
## 6	1	0	1	0	0	1	1	0	1	0	0	1	0	0
##	MET	SMN1	YWHAB	FAS	FABP1	IFI35	SKI	RAI14	SOX6	MAPK1IP1L	COPB2	DNMT3B	ARPC3	
## 1	0	0	1	1	1	1	1	1	1	1	1	1	0	
## 2	0	0	0	1	1	1	0	1	1	1	1	0	0	
## 3	0	0	0	1	0	1	0	1	0	0	1	0	0	
## 4	0	0	1	1	1	1	1	1	1	1	1	1	0	
## 5	0	0	1	1	1	1	1	1	1	1	1	1	0	
## 6	0	0	1	1	1	1	1	1	1	1	1	0	0	
##	GABARAPL1	NELFB	GABRB3	JUNB	GRIN2B	KRTAP4-12	TRA2A	NCOR1	UBB	PARD3	MEF2D	PHAX		
## 1	1	0	1	0	1	1	1	1	1	0	1	0	1	
## 2	1	1	1	0	1	1	1	0	1	0	1	0	0	
## 3	1	1	1	0	1	1	1	1	1	0	0	0	1	
## 4	1	1	1	0	1	1	1	0	1	0	1	0	0	
## 5	1	1	1	0	1	1	1	1	1	0	1	0	0	
## 6	1	1	1	0	1	1	1	1	1	0	1	0	0	
##	CHMP1B	STRAP	RAC1	YWHAZ	MST1R	EIF2AK2	SERPING1	ESR1	CHRM3	RXR	CBR3	MAPK1		
## 1	0	1	1	1	1	0	1	0	0	1	0	1		
## 2	0	1	1	1	1	1	1	0	0	0	1	0	0	
## 3	0	1	0	1	1	0	0	0	0	0	0	0	0	
## 4	0	1	0	1	1	1	1	0	0	0	1	0	0	
## 5	0	1	0	1	1	1	1	0	0	0	1	0	1	
## 6	0	1	0	1	1	1	1	0	0	0	1	0	0	
##	BMPR1A	DNM1	PLK1	MAPK7	APP	U2AF2	RAD23A	SMAD3	PPM1A	COPS6	GOLGA2	CDKN1B	CD55	
## 1	1	0	1	0	0	1	1	1	1	0	1	1	1	
## 2	0	0	0	0	0	0	0	1	1	0	1	1	1	
## 3	0	0	0	0	0	0	0	1	1	0	0	1	1	
## 4	0	0	1	0	0	1	1	1	1	0	1	1	1	
## 5	0	0	1	0	0	1	1	1	1	0	0	1	1	

## 6	0	0	1	0	0	0	1	1	1	0	0	0	1	
##	CTNND2	IL1RAP	FYN	TRA	ACVR1	EP300	LCK	ATF7IP	WWP2	CREB1	HSP90AA1	WEE1	PTGES3	
## 1	0	0	1	1	1	0	1	1	1	1	0	0	1	
## 2	0	0	1	1	1	0	1	1	1	1	0	0	0	
## 3	0	0	0	0	1	0	1	1	1	1	0	0	0	
## 4	0	1	1	1	1	0	1	1	1	1	0	0	0	
## 5	0	0	1	1	1	0	1	1	1	1	0	0	0	
## 6	0	0	0	1	1	0	1	1	1	1	0	0	0	
##	RPS27	LEPR	PPP1R8	FEN1	MNAT1	JUN	LSM7	FKBP4	SLC6A3	PLCG1	NUDT3	RPS28	TBP	
## 1	1	1	1	1	0	1	1	0	0	0	1	0	1	
## 2	0	1	1	1	0	0	1	0	0	0	1	0	0	
## 3	0	1	1	1	0	0	1	0	0	0	1	0	0	
## 4	0	1	1	1	0	1	1	0	0	0	1	0	1	
## 5	0	1	1	1	0	1	1	0	0	0	1	0	1	
## 6	0	1	1	0	0	1	1	1	0	0	1	0	1	
##	RASD2	TCERG1	CHUK	NME1	RPL7A	FHL2	NA	GRB2	DMPK	TIRAP	NCOR2	STAT3	SH3GL3	HCFC1
## 1	1	0	0	1	1	1	1	1	0	1	1	1	0	0
## 2	0	0	1	1	1	1	1	1	0	1	0	1	0	0
## 3	0	0	0	1	1	1	0	1	0	1	0	1	0	0
## 4	0	0	0	1	1	1	1	1	0	1	1	1	0	0
## 5	1	0	0	1	1	1	1	1	0	1	1	1	0	0
## 6	0	0	0	1	1	1	0	1	0	1	0	1	0	0
##	ARID3A	KDR	SRC	PQBP1	OTUB1	KIAA0087	AP1M2	PML	STAT1	SH3GL1	NEDD4L	POLR2C		
## 1	0	1	1	1	0		1	1	0	1	1	1	1	
## 2	0	0	1	0	0		0	1	0	0	1	0	1	
## 3	0	0	1	0	0		0	1	0	0	1	0	1	
## 4	0	1	1	0	0		0	1	1	0	1	1	1	
## 5	0	0	1	1	0		0	1	1	1	1	1	1	
## 6	0	0	1	0	0		0	1	0	0	1	0	1	
##	PRKAR1A	ANAPC2	MAP2	IL16	HDAC6	MBD3	PRKAR2A	CSNK2B	ROCK1	SLC9A1	SYT7	RET	PTK2	
## 1	0	1	0	0	0	1	0	1	1	1	1	1	0	
## 2	0	0	1	0	0	0	0	0	0	1	1	1	0	
## 3	0	0	1	0	0	0	0	0	0	1	1	1	0	
## 4	0	1	1	0	0	0	0	0	0	1	1	1	0	
## 5	0	1	0	0	0	0	0	0	0	1	1	1	0	
## 6	0	0	0	0	0	0	0	0	0	1	1	1	0	
##	INSR	SGK1	LRP2BP	HDAC2	ITGB3	GNA12	COPS6	ACTA1	JUN	MMP7	EGFR	F13A1	HDAC1	
## 1	0	1	0	1	0	0	1	0	0	1	0	1	0	
## 2	1	1	0	1	0	0	1	0	0	1	0	0	1	
## 3	0	0	0	0	0	0	0	0	0	1	0	0	1	
## 4	0	1	0	1	0	0	1	0	0	1	0	0	1	
## 5	0	1	0	1	0	0	1	0	0	1	0	0	1	
## 6	0	1	0	1	0	0	0	0	0	1	0	0	0	
##	EPS15	DTX3L	RBM14	TINAGL1	ADCYAP1	CEBPA	BAG6	RAC1	LYN	JAK3	ITGB5	NUDT21	MET	
## 1	0	0	1	0	1	0	0	1	1	1	1	1	0	
## 2	0	0	0	0	1	0	0	0	1	1	0	1	0	
## 3	0	0	0	0	1	0	0	0	0	1	0	0	0	
## 4	1	0	0	0	1	0	0	0	0	1	0	1	0	
## 5	1	0	0	0	1	0	0	0	1	1	0	1	0	
## 6	1	0	0	0	1	0	0	0	1	1	0	1	0	
##	EXOC4	STAP2	TLR1	BLNK	PRKCA	CABLES2	ARF6	ANXA11	NFKB1	PRR13	WDR18	LRP5	SF3B4	
## 1	0	0	1	1	0	1	1	0	1	0	1	1	1	
## 2	0	1	1	1	0	1	0	0	0	0	1	0	1	
## 3	0	0	1	1	0	0	0	0	0	0	1	0	1	

## 4	0	0	1	1	0	1	0	0	0	0	1	1	1
## 5	0	1	1	1	0	1	0	0	0	0	1	1	1
## 6	0	0	1	1	0	1	0	0	0	0	1	1	1
##	STX7	BTK	ATP6V1A	UBR1	PPARG	BRCA1	CCNK	UBQLN4	KRAS	FAF1	FGF6	UBE2D2	LTA4H
## 1	1	0	0	0	1	0	0	0	1	1	0	1	1
## 2	0	0	0	0	1	0	0	0	0	0	0	0	1
## 3	0	0	0	0	1	0	0	0	0	0	0	0	0
## 4	1	0	1	0	1	0	0	0	0	1	0	1	1
## 5	1	0	1	0	1	0	0	0	0	0	0	1	1
## 6	1	0	0	0	1	0	0	0	0	0	0	0	1
##	ACTB	PHACTR3	CBFA2T3	FHL5	NCOA6	CASP3	FLNC	KDR	UBQLN4	CXCR2	SUFU	KCNJ15	CAPN1
## 1	1	1	1	1	1	0	1	0	1	1	1	1	1
## 2	0	1	1	1	1	0	1	0	1	1	1	1	1
## 3	0	1	1	1	1	0	1	1	0	0	0	1	1
## 4	1	1	1	1	1	0	1	1	1	0	1	1	1
## 5	1	1	1	1	1	0	0	1	1	1	1	1	1
## 6	1	1	1	1	1	0	0	0	1	0	1	1	1
##	GRIN1	PRC1	SHC1	CTNNB1	ZBTB16	CCR3	MUTYH	NA	HSPA5	SMAD2	DLG4	FOXO1	WNT1
## 1	0	0	0	1	1	1	1	0	0	1	1	1	1
## 2	1	0	1	0	0	1	1	0	0	1	1	0	1
## 3	0	0	1	0	0	0	1	0	0	1	0	0	1
## 4	1	0	1	1	0	0	1	0	0	1	1	1	1
## 5	0	0	1	1	0	0	1	0	0	1	1	0	1
## 6	0	0	1	1	0	0	1	0	0	1	1	0	1
##	UNC119	IRAK1	BAG6	ABL1	ATF7IP	MMP9	TNFSF10	MYO15A	RET	YWHAQ	SNRPD2	HNF4A	
## 1	0	1	1	1	1	1	1	1	1	1	0	1	
## 2	0	1	0	1	0	0	1	1	1	1	0	0	
## 3	0	1	0	0	0	0	1	1	0	1	0	0	
## 4	0	1	0	1	1	0	1	1	0	1	0	0	
## 5	0	1	1	1	0	1	1	1	0	1	0	0	
## 6	0	1	0	1	1	0	1	1	0	1	0	0	
##	SMARCA2	VAV1	RPS6KA1	ADAM9	SYNJ1	CMA1	MYCBP	TINAGL1	PRKG1	GADD45A	SPTBN4	TK1	
## 1	1	0	1	0	0	0	1	1	0	1	1	1	
## 2	0	0	1	0	0	0	1	0	0	1	0	1	
## 3	0	0	0	0	1	0	0	0	0	1	0	0	
## 4	0	0	1	0	0	0	1	0	0	1	0	1	
## 5	1	0	1	0	0	0	1	0	0	1	0	1	
## 6	0	0	1	0	0	0	1	0	0	1	0	1	
##	PPP1CA	ARSL	RB1	PTPN6	LSM2	ANKRD24	RBPM5	HDAC5	SMAD1	CSAD	RTN3	GSC	SNRPD2
## 1	1	0	0	0	0	0	0	0	0	0	1	0	0
## 2	1	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	0	0	0	0	0	1	1	0
## 5	1	0	0	0	0	0	0	0	0	0	1	1	0
## 6	1	0	0	0	0	0	0	0	0	0	1	0	0
##	HNF4A	CASP1	MSX1	PLXNB1	HTRA1	RPS6KA1	HDAC1	GNB1	HMOX1	TP63	MT-ND4	BMP7	PHC2
## 1	1	0	1	0	1	0	1	1	0	1	1	1	0
## 2	1	0	1	0	1	0	1	0	0	0	1	1	0
## 3	0	0	1	0	1	0	0	0	0	0	1	1	0
## 4	1	0	1	0	1	0	1	0	0	0	1	1	0
## 5	1	0	1	0	1	0	1	1	0	0	1	1	0
## 6	1	0	1	0	1	0	1	1	0	0	1	1	0
##	CHMP1A	HCK	TRAF1	UPF2	MAPK8	MYD88	PCBP1	EGFR	MS4A1	ALOX12	LNK1	CFLAR	CCNB1
## 1	1	0	0	1	0	1	0	1	0	0	1	0	1

## 2	1	1	0	1	0	0	0	1	0	0	1	0	1	
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	1	0	1	1	0	0	1	0	1	1	0	1	
## 5	0	1	0	1	1	0	0	1	0	1	1	0	1	
## 6	0	0	0	1	1	0	0	1	0	1	0	0	1	
##	GAD2	UBA52	PSMA3	EWSR1	ARHGEF11	TOLLIP	HAP1	SMAD1	RADIL	GADD45A	IL6ST	NOS1		
## 1	0	0	1	1		1	0	1	1	0	1	1	0	
## 2	0	0	0	1		1	0	1	1	0	1	1	0	
## 3	0	0	0	0		1	0	1	0	0	1	1	0	
## 4	0	0	1	1		1	0	1	1	0	1	1	0	
## 5	0	0	1	1		1	0	1	1	0	1	1	0	
## 6	0	0	0	1		1	0	1	0	0	1	1	0	
##	BARD1	SPOCK2	CDKN1A	RBM41	STAT1	DRD3	PRKCZ	RALBP1	EPRS1	PLK1	TP53	DVL2	VIM	
## 1	1	0	1	0	0	1	0	0	0	1	1	0	0	
## 2	1	0	1	1	0	1	0	0	0	1	0	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	1	1	0	1	1	0	0	1	0	0	0	
## 5	1	0	1	1	0	1	1	0	0	1	0	0	0	
## 6	1	0	1	1	0	0	0	0	0	0	0	0	0	
##	IL23R	DCK	CASP8	MTMR10	KPNA2	GFI1B	PTK2	POM121	DIABLO	FLNA	NUP153	PRPF40A		
## 1	0	1	0	0	0	0	1	1	0	1	1	1		
## 2	0	1	0	0	0	0	1	0	0	1	0	1		
## 3	0	1	0	0	0	0	1	0	0	0	0	1		
## 4	0	1	0	0	1	0	1	0	0	1	0	1		
## 5	0	1	0	0	1	0	1	0	0	0	0	1		
## 6	0	1	0	0	0	0	1	0	0	0	0	1		
##	CAV1	ACTG1	UBQLN4	XPA	MAPK14	HSPD1	AR	PAG1	UBQLN4	IFNAR1	RGS16	CSNK2A2	YLPM1	
## 1	1	0	0	1	1	0	0	1	1	0	0	1	1	
## 2	1	0	1	0	1	0	0	1	0	0	0	1	1	
## 3	0	0	1	0	1	0	0	1	0	0	0	0	0	
## 4	1	0	1	0	1	0	0	1	1	0	0	1	1	
## 5	1	0	1	0	1	0	0	1	0	0	0	1	1	
## 6	1	0	1	0	1	0	0	1	0	0	0	1	1	
##	NCOA1	VAV3	FGFR1	FGG	TGM2	SOS1	PDHA1	UBQLN4	PTPRR	SKP1	DRD2	CDH13	NOTCH4	SOX8
## 1	1	0	1	1	1	1	1	0	1	0	1	0	1	1
## 2	1	0	0	1	0	0	1	1	1	0	1	0	0	1
## 3	1	0	0	1	1	0	0	0	1	0	1	0	0	0
## 4	1	0	0	1	1	0	1	0	1	0	1	0	0	1
## 5	1	0	0	1	1	0	1	1	1	0	1	0	0	1
## 6	1	0	0	1	0	0	0	0	1	0	1	0	0	1
##	YWHAQ	EGFR	STAT1	TLN1	TARBP2	MXD1	KDR	VAV1	MITF	PRNP	PLEKHF2	PAWR	CDC73	SYK
## 1	0	1	0	1		1	1	1	1	1	1	1	1	0
## 2	0	1	0	1		1	1	1	1	0	1	1	1	0
## 3	0	1	0	1		0	1	1	1	0	0	1	1	0
## 4	0	1	0	1		1	1	1	1	0	1	1	1	0
## 5	0	1	0	1		1	1	1	1	0	1	1	1	0
## 6	0	1	0	1		1	1	1	1	0	1	1	1	0
##	DVL3	HLA-F	GRB2	TP53	TRPC3	EXOSC3	CR1	COL4A4	SRC	GORASP1	GAPDH	FAM219A	IL4R	
## 1	1	1	0	1	1	1	1	1	1	1	1	0	0	
## 2	1	1	0	1	1	1	1	1	1	1	1	1	0	
## 3	1	1	0	1	0	0	0	0	0	0	1	0	0	
## 4	1	1	0	1	1	1	1	1	1	1	1	0	0	
## 5	1	1	0	1	1	1	1	1	0	1	1	0	0	
## 6	1	1	0	1	0	0	1	1	0	1	1	0	0	

##	H3C1	CAPN2	STRN4	FBN2	EP300	TUBA1A	SMAD4	ZBTB16	HMGB1	ERBB3	UBE2R2	TOLLIP		
## 1	1	0	0	1	1	1	1	1	0	1	1	0		
## 2	0	0	0	1	1	0	0	1	0	1	1	0		
## 3	0	0	0	1	1	0	0	0	0	0	1	0		
## 4	0	0	1	1	1	0	1	1	0	1	1	1		
## 5	0	0	0	1	1	0	1	1	0	1	1	0		
## 6	0	0	0	0	1	0	1	1	0	1	1	0		
##	MAP3K5	AP1M2	TNFSF13	INSR	BCCIP	TNC	CASK	NR4A1	MYOD1	ANAPC10	HABP4	DAB2	SH2B1	
## 1	0	0	0	1	0	1	1	1	0	1	1	0	1	
## 2	0	0	0	1	0	0	1	1	0	1	1	0	1	
## 3	0	0	0	1	0	0	1	0	0	0	1	0	0	
## 4	0	0	0	1	0	0	1	1	0	1	1	0	1	
## 5	0	0	0	1	0	0	1	1	0	1	1	0	0	
## 6	0	0	0	1	0	0	1	1	0	1	1	0	0	
##	FXR2	EEF1A1	AKAP9	SYK	MYB	RSRC1	RRAS2	EPN2	GRB2	DNAJB1	TSC2	BCL2	FOSL2	MRC1
## 1	1	1	1	1	0	1	0	1	0	0	0	0	0	0
## 2	1	1	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	1	0	1	0	0	0	0	0	0	0	0
## 5	1	1	1	1	0	1	0	0	0	0	0	0	0	0
## 6	1	1	0	0	0	0	0	0	0	0	0	0	0	0
##	CASP3	NRAP	RBX1	SNTA1	ARHGEF2	LTB4R	PLAU	YWHAQ	FUNDC2	JUN	JAK2	RARA	CDK4	
## 1	0	1	1	1	1	1	1	1	1	1	1	1	0	
## 2	0	1	1	1	1	1	0	1	1	1	1	1	0	
## 3	0	1	0	0	1	0	0	1	1	1	0	1	0	
## 4	0	1	1	1	1	1	0	1	1	1	1	1	0	
## 5	0	1	1	1	1	1	1	1	1	1	1	1	0	
## 6	0	1	1	1	1	1	0	1	1	1	1	1	0	
##	RGS19	HSP90AA1	HAX1	TBL1X	PPP1R8	BAMBI	PTN	RASSF1	NCK1	SCAMP1	CASP3	S1PR4		
## 1	1	1	0	1	1	0	0	0	0	0	1	0		
## 2	1	1	0	1	1	0	1	0	0	0	1	0		
## 3	1	0	0	1	0	0	0	0	0	0	1	0		
## 4	1	1	0	1	1	0	0	0	0	0	1	0		
## 5	1	0	0	1	1	1	1	0	0	0	1	0		
## 6	1	0	0	1	0	0	1	0	0	0	1	0		
##	HAND2	VIM	DNM2	NR3C1	ESR1	F2RL1	PPARA	FGFR2	TRAF3	FLT4	ABLIM1	LRIF1	PIAS1	
## 1	1	1	0	0	1	1	1	0	0	0	0	1	1	
## 2	1	0	0	0	1	1	1	0	0	0	0	1	1	
## 3	0	0	0	0	1	0	0	0	0	0	0	0	0	
## 4	1	0	0	0	1	0	1	0	0	0	0	1	1	
## 5	1	0	0	0	1	1	1	0	0	0	0	1	1	
## 6	1	1	0	0	1	0	1	0	0	0	0	1	1	
##	RFX3	CD247	STK38	GAB1	HDAC3	SYT4	ELANE	INSR	AURKB	RPS2	CCND1	NCOA1	SNRNP70	
## 1	0	1	1	0	0	0	1	0	1	1	0	1	1	
## 2	0	1	0	0	0	0	1	0	1	1	0	1	1	
## 3	0	1	0	0	0	0	1	0	0	0	0	1	1	
## 4	0	1	0	0	0	0	1	0	1	1	0	1	1	
## 5	0	1	1	0	0	0	1	0	1	1	0	1	1	
## 6	0	1	0	0	0	0	1	0	1	1	0	1	1	
##	CELSR3	ACTG1	SPRY2	CALM1	FLNA	SET	NCOA3	SRC	PDE6D	TACC2	TUBA4A	PTPRD	PEX5	
## 1	0	1	1	0	1	1	1	0	1	1	0	1	0	
## 2	0	1	0	0	1	1	1	0	1	1	0	1	0	
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 4	0	1	0	0	1	0	1	0	1	1	0	1	0	

## 5	0	1	1	0	1	1	1	0	1	1	0	1	0
## 6	0	1	0	0	0	1	1	0	1	1	0	1	0
##	CCL19	SYNJ1	MCM7	PSMC3	PRKCD	E2F1	PTK2	KIAA1217	TCL1A	ABCA1	EXOSC8	ABL1	CASP3
## 1	0	1	0	1	1	0	0	0	1	1	0	0	1
## 2	0	1	0	1	0	0	0	0	1	0	0	1	0
## 3	0	0	0	1	0	0	0	0	1	0	0	0	0
## 4	0	1	0	1	0	0	0	0	1	1	0	1	0
## 5	0	1	0	1	0	0	0	0	1	1	0	0	0
## 6	0	1	0	1	0	0	0	0	1	0	0	0	0
##	LRIF1	KPNA2	MAPK1	STRN	UPF1	SEMA5B	BMPR1B	RELA	TRAF5	ZHX1	CDKN1A	WDR1	LMO4
## 1	0	1	1	1	0	0	1	1	1	1	0	0	1
## 2	0	1	1	1	0	0	0	1	1	1	1	0	1
## 3	0	1	0	0	0	0	0	1	0	0	0	0	1
## 4	0	1	1	1	0	0	0	1	1	1	0	0	1
## 5	0	1	1	1	0	0	0	1	1	1	0	0	1
## 6	0	1	0	1	0	0	0	1	1	1	0	0	1
##	PRNP	CASP8	STX2	CREB3L3	CTNND2	PRNP	RDH11	PRMT1	EIF2AK2	PRKACA	PSMC6	NR3C1	
## 1	0	1	1	0	1	0	0	1	1	0	0	0	
## 2	1	1	1	0	1	1	0	1	1	0	0	0	
## 3	0	1	1	0	0	0	0	0	1	0	0	0	
## 4	1	1	1	0	1	1	0	1	1	0	0	0	
## 5	1	1	1	0	1	1	0	1	1	0	0	0	
## 6	1	1	1	0	1	0	0	1	1	0	0	0	
##	RPH3A	PIK3C3	USF2	RBL2	TNR	LPXN	GRAP	AKT1	KRT81	LYN	MYO5B	RAB11FIP5	YWHAQ
## 1	0	1	1	1	0	1	0	1	1	0	0	1	1
## 2	0	1	1	1	0	1	0	0	0	0	0	1	1
## 3	0	1	1	1	0	0	0	0	0	0	1	1	1
## 4	0	1	1	1	0	1	0	1	0	0	1	1	1
## 5	0	1	1	1	1	1	0	0	1	0	0	1	1
## 6	0	1	1	1	0	1	0	1	0	0	0	1	1
##	CASP8	RELA	MAPK12	RBBP4	GDF9	RHOA	CCDC85B	SMAD3	CEP70	NOTCH4	CREBBP	SGSM2	
## 1	0	0	0	0	1	1	1	1	1	0	1	1	
## 2	0	0	0	0	1	1	1	1	0	1	1	1	
## 3	0	0	0	0	0	0	0	1	0	0	1	0	1
## 4	0	0	0	0	1	1	1	1	1	1	1	1	1
## 5	0	0	0	0	1	1	1	1	1	1	1	1	1
## 6	0	0	0	0	1	1	1	0	1	1	1	1	1
##	PSMA4	DYNLT1	TRIM29	NFKBIB	KPNB1	LYN	KCNAB2	FGF2	STON2	PSMC3	UBE2I	BTRC	
## 1	0	1	1	0	0	1	0	1	1	0	1	1	
## 2	0	1	1	0	0	1	0	0	1	0	0	0	
## 3	0	1	1	0	0	0	0	0	1	0	0	1	
## 4	0	1	1	0	0	1	0	1	0	0	0	0	
## 5	0	1	1	0	0	1	0	1	0	0	0	1	
## 6	0	1	1	0	0	1	0	0	0	0	0	0	
##	SORBS1	CAMK2A	MED8	TK1	FSHR	TNFSF11	PTK2	NFKBIA	SND1	FXD6	HSPA5	KHDRBS1	DLG1
## 1	1	0	1	0	0	1	1	1	1	1	0	1	1
## 2	1	0	1	0	0	1	1	1	1	1	0	1	1
## 3	0	0	1	0	0	1	1	1	1	1	0	1	1
## 4	1	0	1	0	0	1	1	1	1	1	0	1	1
## 5	1	0	1	0	0	1	1	1	1	1	0	1	1
## 6	0	0	1	0	0	1	1	1	1	1	0	1	1
##	GNRH1	RAB4A	GAPDH	SIRPA	PLCG2	CABIN1	ANXA7	EGFR	HOMER1	TNIP1	ACTN2	TLR4	JAK1
## 1	0	1	1	1	0	1	1	1	1	0	0	1	0
## 2	0	1	0	1	0	1	1	1	1	0	0	1	0

## 3	0	0	0	1	0	1	1	0	1	0	0	0	0
## 4	0	0	0	1	0	1	1	1	0	0	0	1	0
## 5	0	0	0	1	0	1	0	0	0	0	0	1	0
## 6	0	0	0	1	0	1	1	0	0	0	0	1	0
##	DEPP1	TGFB3	CFLAR	TAB1	MAD2L1	FLNA	FGR	CREBBP	TNFRSF25	ALX1	TAMALIN	EIF3J	
## 1	1	0	1	0	1	0	0	0	1	0	0	1	
## 2	1	0	1	0	1	0	0	1	1	0	0	1	
## 3	0	0	1	0	1	0	0	0	1	0	0	0	
## 4	1	0	1	0	1	0	0	0	1	0	0	1	
## 5	1	0	1	0	1	0	0	0	1	0	0	1	
## 6	0	1	1	0	1	0	0	0	1	0	0	1	
##	AGTR1	CIC	PPP3CC	TUBA1B	MSN	DEF6	CASP8	CDH5	PTH1R	LRP2	NUDT3	SLC2A1	NCK1 RIT2
## 1	1	0	0	1	1	1	1	1	1	0	1	1	1
## 2	1	0	0	1	1	1	1	1	1	0	1	1	1
## 3	0	0	0	1	0	1	1	0	0	0	1	0	0
## 4	1	0	0	1	1	1	1	1	0	0	0	0	0
## 5	1	0	0	1	1	1	1	1	0	0	1	0	1
## 6	1	0	0	1	1	1	1	1	0	0	0	0	1
##	MYOZ3	TRAP1	MYD88	SLPI	ITGA1	TUBA4A	GRIA3	IMMT	ACTR2	LRIF1	TSPAN4	PIM2	AR
## 1	0	0	0	0	0	0	0	0	0	0	0	1	0
## 2	0	0	0	0	0	0	1	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0
## 4	0	0	0	0	0	0	0	0	0	0	0	1	0
## 5	0	0	1	0	0	0	0	1	0	0	0	0	0
## 6	0	0	1	0	0	0	0	0	0	0	0	0	0
##	PRTN3	CYTH2	TRAF5	EIF4EBP1	SMAD1	SHC1	PFN1	HSPB1	RALB	PTPRD	KIF22	ACKR2	PPARD
## 1	1	0	0	1	1	0	0	1	1	1	1	1	0
## 2	1	0	0	0	0	0	0	0	1	0	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	0	1	0	0	1	1	1	1	1	0
## 5	1	0	0	1	1	0	0	1	1	1	1	0	0
## 6	1	0	0	0	1	0	0	0	1	0	1	0	0
##	CASP3	PPA1	PRMT1	BMPR2	SNCG	MAP3K14	PARP1	UCP3	SYK	PECAM1	AP1M1	PLSCR1	DLG4
## 1	0	0	0	1	1	0	0	0	1	0	1	0	0
## 2	0	1	0	1	0	0	0	0	0	0	0	0	0
## 3	0	0	0	1	0	0	0	0	0	0	0	0	0
## 4	0	1	0	1	0	0	0	0	1	0	0	0	0
## 5	0	0	0	1	0	0	0	0	1	0	1	0	0
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0
##	PTN	ARRB1	ARHGAP1	MYO10	CRMP1	RASA1	CREM	EP300	PPP1R12A	DNM1	UBE2N	NCOA1	
## 1	0	1	1	0	1	1	0	0	1	0	0	1	
## 2	0	0	1	0	0	0	0	0	0	0	0	1	
## 3	0	1	1	0	0	0	0	0	0	0	0	0	
## 4	0	1	1	0	0	0	0	0	1	0	0	1	
## 5	0	1	1	0	0	0	0	0	1	0	0	1	
## 6	0	1	1	0	0	0	0	0	0	0	0	1	
##	MEP1B	MED4	CDK3	PLCG1	ADAM17	IRAK1	NAE1	CASP8	GAPDH	PARP1	DLG2	JUP	CD79A
## 1	0	1	0	1	1	0	1	0	1	1	1	0	1
## 2	0	1	0	1	0	0	1	0	1	0	0	0	0
## 3	0	1	0	1	0	0	1	0	0	0	0	0	0
## 4	0	1	0	1	0	0	1	0	1	1	0	0	1
## 5	0	1	0	1	0	0	1	0	1	1	1	0	1
## 6	0	1	0	1	0	0	1	0	1	1	0	0	1
##	HMG20B	SOCS1	MYOZ1	CCDC33	MED22	NOL3	GRAP2	STUB1	MMP13	AP1M1	PLCG2	FAP	

## 1	1	0	0	1	0	1	1	0	0	0	0	1		
## 2	1	0	0	0	0	1	1	0	0	0	0	0		
## 3	1	0	0	0	0	1	1	0	0	0	0	0		
## 4	1	0	0	0	0	1	1	1	1	0	1	1		
## 5	1	0	0	0	0	1	1	0	1	0	0	0		
## 6	1	0	0	0	0	1	1	0	1	0	0	1		
##	PLEKHB2	NXF1	TP53	AMFR	CMA1	PIK3R1	CRMP1	STAT3	NGFR	IRAK1	MAPT	GPS2	PRG2	
## 1	1	0	0	0	0	0	1	1	1	0	0	1	0	
## 2	1	0	0	0	0	0	1	1	1	0	0	1	0	
## 3	1	0	0	0	0	0	0	1	1	0	0	1	0	
## 4	1	0	0	0	1	0	1	0	1	1	0	1	0	
## 5	1	0	0	0	0	0	1	1	1	0	0	1	0	
## 6	1	0	0	0	0	0	1	1	1	0	0	1	0	
##	KCNJ12	TPT1	PIAS1	SMN1	EPRS1	SPRED1	MYD88	PDE6D	MAPT	PSEN1	FZD7	NPM1	TP53BP1	
## 1	0	0	1	0	1	0	0	0	0	1	1	0	0	
## 2	0	0	1	0	0	0	0	0	0	1	1	1	0	
## 3	0	0	0	0	0	0	0	0	0	1	0	1	0	
## 4	0	1	1	0	0	0	0	0	0	1	0	1	0	
## 5	0	1	1	1	1	0	0	0	0	1	0	1	0	
## 6	0	0	0	0	0	0	0	0	0	1	0	1	0	
##	EEF1A1	NCR1	RHOD	TSC1	YWHAG	KIF20B	SSTR5	LRIF1	UBE2E1	MAP3K8	TNFRSF8	TNFSF11		
## 1	1	1	1	1	0	1	1	0	1	0	1	1	1	
## 2	1	1	0	1	0	0	1	0	1	0	1	1	1	
## 3	1	0	0	1	0	0	1	0	0	0	1	0	0	
## 4	0	1	0	1	0	0	1	0	0	0	1	1	1	
## 5	0	1	0	1	0	1	1	0	0	0	1	0	0	
## 6	0	1	0	1	0	0	1	0	0	0	0	0	0	
##	DGCR6L	IKZF1	STAT5B	PIK3R1	KRTAP4-12	TTN	UBE2G1	RPL13	MED1	MAPK8IP1	NR1H2			
## 1	1	0	1	1	0	0	0	0	1	0	1	1	1	
## 2	0	0	0	0	0	0	0	1	0	1	0	1	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	0	0	0	1	1	
## 5	0	0	0	0	0	0	0	0	0	1	0	1	1	
## 6	0	0	0	0	0	0	0	0	0	0	0	1	1	
##	MAPK3	NA	COPS2	BAD	HSPB1	SNX9	GGA2	EGFR	AGAP2	CSNK2A1	IL4R	SCAF1	RARA	DLEU1
## 1	1	0	1	0	1	1	0	1	0	1	0	0	1	0
## 2	1	0	1	0	1	1	1	1	0	1	0	0	0	0
## 3	0	0	0	0	1	1	1	1	0	1	0	0	0	0
## 4	1	0	0	0	1	1	1	1	0	1	0	0	0	1
## 5	1	0	1	0	1	1	1	1	1	1	0	0	0	0
## 6	1	0	1	0	1	1	1	1	0	1	0	0	0	0
##	MAPK3	SH3BP2	HGS	CHRM5	FYN	RNF130	CALM3	NR3C1	CLEC3B	PHC2	PTPRZ1	MPP1	ESR1	
## 1	1	1	1	0	0	1	1	1	0	1	1	1	1	1
## 2	0	0	0	0	0	1	1	1	0	0	1	1	1	1
## 3	1	1	0	0	0	0	1	1	0	0	1	0	1	1
## 4	1	1	0	0	0	1	1	1	0	0	1	1	1	1
## 5	0	0	0	0	0	1	1	1	0	0	1	1	1	1
## 6	0	1	0	0	0	1	0	1	0	0	1	0	1	1
##	ATF3	ABCC2	CSNK1G1	HSPA1A	SYT1	NR1H3	ITPR3	PKM	DLG4	ARHGAP8	CASP2	ADRB2		
## 1	1	1	1	1	1	0	0	1	0	0	1	1	1	1
## 2	1	0	0	1	1	0	1	1	1	0	0	0	0	0
## 3	1	0	0	1	1	0	0	0	1	0	0	0	0	0
## 4	1	0	0	1	1	0	0	1	0	0	0	1	1	1
## 5	1	1	0	1	1	0	0	1	0	0	0	0	0	0

## 6	1	0	0	1	1	0	0	1	0	0	0	0		
##	SH3GL3	ERBB2	LTBR	APPL1	GRB2	GRIN1	IMMT	FXD6	HLF	SHC1	FOXO4	PRKCD	GAPDH	ETS1
## 1	1	1	1	1	0	0	0	1	0	1	0	0	0	1
## 2	1	1	1	1	0	1	1	1	0	1	0	0	0	1
## 3	1	1	1	0	0	0	0	0	0	1	0	0	0	1
## 4	1	1	1	1	0	0	1	0	0	1	0	0	0	1
## 5	1	1	1	1	0	0	0	0	0	1	0	0	0	1
## 6	1	1	1	1	0	0	0	0	0	1	0	0	0	1
##	NROB1	KAT2B	NA	TSC2	FZD3	TRIM23	KLRC4	KLK3	ATP2B4	HLA-DPA1	NA	RGS2	ACVR1	
## 1	1	0	1	0	1	1	1	1	1	1	1	0	0	
## 2	1	0	1	0	1	1	0	0	0	1	1	0	0	
## 3	0	0	1	0	1	0	0	0	0	1	1	0	0	
## 4	1	0	1	0	1	1	0	0	0	1	1	0	0	
## 5	1	0	1	0	1	1	1	0	1	1	1	0	0	
## 6	1	0	1	0	1	1	0	0	1	1	1	0	0	
##	PRKCD	CD19	IL1RL2	PRKCG	PLP1	PSAP	YWHAG	EZH2	GNAQ	TK1	BAG6	ANTXR1	GRB2	
## 1	0	1	1	0	1	1	0	0	1	1	0	0	0	
## 2	0	1	0	0	1	1	0	0	1	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	1	0	1	1	1	0	1	0	1	1	0	
## 5	0	1	0	0	1	1	0	0	1	0	0	1	1	
## 6	0	1	1	0	1	1	0	0	1	0	0	1	0	
##	KIR3DL1	CASP4	TNFSF11	KRT7	IRS4	HRH4	TNFRSF11B	GPR39	TRAF2	VTA1	CALCOCO1	ENAH		
## 1	0	1	0	0	1	1	0	0	1	0	1	1		
## 2	0	0	0	0	0	0	0	0	0	0	1	0		
## 3	0	0	0	0	0	0	0	0	0	0	1	0		
## 4	0	0	0	0	0	0	0	0	0	1	0	1		
## 5	0	0	0	0	0	0	0	0	0	1	0	1		
## 6	0	0	0	1	0	0	0	0	0	1	0	1		
##	DCN	MAPK3	MTCP1	EPHA2	TRAF3	FABP4	PRKCI	TJP1	GSK3B	HDAC1	CPNE4	USP9X	KHDRBS1	
## 1	1	0	1	1	0	1	1	1	1	1	1	0	0	
## 2	1	0	1	1	0	0	0	1	1	0	1	0	0	
## 3	1	0	0	1	0	0	0	1	1	1	1	0	0	
## 4	1	0	1	1	0	1	0	1	1	1	1	1	0	
## 5	1	0	0	1	0	1	0	1	1	1	1	1	0	
## 6	1	0	0	1	0	0	0	1	1	0	1	1	0	
##	CHRM3	MAGED1	PPARA	NCOA1	TCF3	ITPKA	NCOA3	SHC1	RB1	CHN1	CDC20	S100B	CHAF1A	
## 1	1	1	1	1	0	1	1	1	1	0	1	0	1	
## 2	1	1	0	1	0	1	1	1	1	0	1	1	1	
## 3	1	0	0	0	0	1	1	1	1	0	1	0	0	
## 4	1	1	0	0	0	1	1	1	0	0	1	1	1	
## 5	1	1	0	1	0	1	1	1	1	0	1	0	1	
## 6	0	1	0	0	0	1	1	1	0	0	0	0	1	
##	LSM7	SNX2	TRAT1	XPC	GYS1	ATN1	PLCB1	ACTA1	JAK2	ANAPC5	EGF	AKT1	TAB1	KAT5
## 1	0	0	0	1	0	0	0	1	1	0	1	1	1	0
## 2	0	0	0	1	0	0	0	1	1	0	1	1	1	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	1	0
## 4	0	0	0	1	0	0	0	0	1	0	1	1	1	0
## 5	0	0	0	1	0	0	0	0	1	0	1	1	1	0
## 6	0	0	0	1	0	0	0	0	1	0	1	1	1	0
##	ATXN7L3	C1QA	NEFL	LCK	SIM2	MAPK8	NGFR	SNTA1	SRC	NKX2-5	PDGFRB	BDKRB2	ADRB1	
## 1	0	0	1	1	0	1	1	0	0	1	1	0	1	
## 2	0	0	1	1	0	1	1	0	0	1	1	0	1	
## 3	0	0	1	1	0	1	1	0	0	1	1	0	0	

## 4	0	0	1	1	0	1	1	1	0	1	1	0	1	
## 5	0	0	1	1	0	1	1	0	0	1	1	0	1	
## 6	0	0	1	1	0	1	1	0	0	1	1	0	1	
##	UBR1	ZNF408	CASP3	TJP1	RASA1	ZXDC	CRMP1	CSNK2B	COL1A2	ZCCHC17	CDK2	VIM	GRIK3	
## 1	0	1	1	0	0	0	1	1	0	1	0	1	1	
## 2	0	0	1	0	0	0	1	1	0	1	0	0	1	
## 3	0	0	0	0	0	0	1	1	0	0	0	0	1	
## 4	0	1	1	0	0	0	1	1	0	1	0	1	1	
## 5	0	1	0	0	0	0	1	1	0	1	0	1	1	
## 6	0	0	0	0	0	0	1	1	0	0	0	1	1	
##	AIFM1	TUBB3	H3-3A	USO1	SH3GL3	IGF1R	KDR	TP53	ZEB2	NCR3	NR1H2	NGEF	BTRC	LUC7L2
## 1	0	0	0	1	1	0	0	1	0	1	1	0	0	0
## 2	0	0	0	0	1	0	0	1	1	1	1	0	0	0
## 3	0	0	0	0	1	0	0	0	0	0	1	0	0	0
## 4	0	0	0	1	1	0	0	0	0	1	1	0	0	0
## 5	0	0	0	1	1	0	0	1	1	1	1	0	0	0
## 6	0	0	0	1	1	0	0	0	0	1	1	0	0	0
##	H3-4	TRA2A	AKT2	ATXN7L2	STC2	SMAD2	PLSCR1	PTPRF	CAPNS1	FGFR1	FGR	EP300		
## 1	0	0	1	1	1	1	1	1	0	1	1	0		
## 2	0	0	1	1	1	1	1	1	0	1	1	0		
## 3	0	0	1	1	0	1	1	1	0	1	1	0		
## 4	0	0	1	1	1	1	1	1	0	1	1	0		
## 5	0	0	1	1	1	1	1	1	0	1	1	0		
## 6	0	0	1	0	0	1	1	1	0	1	1	0		
##	MAP3K10	RBM42	PGR	DCX	YWHAB	PPFIA4	MYBBP1A	LCP2	PLXNB3	ARHGAP5	RDX	CBX4	AIMP2	
## 1	1	0	0	1	1	1	0	1	1	0	1	0	0	
## 2	1	0	0	0	1	1	0	1	1	1	1	0	0	
## 3	0	0	0	0	1	1	0	0	1	0	1	0	0	
## 4	1	1	0	0	1	1	0	1	1	1	1	0	0	
## 5	0	0	0	0	1	1	0	1	1	0	1	0	0	
## 6	1	0	0	0	1	1	0	0	1	0	1	0	0	
##	CTTN	PRKCI	ESR1	CREBBP	AKAP8L	HDAC5	YWHAG	NCK1	ESR1	DEFB1	LGALS1	IL1A	ARPC4	
## 1	1	1	0	1	0	1	0	1	1	0	1	0	1	
## 2	1	1	0	1	0	1	0	1	1	0	1	0	0	
## 3	1	1	0	1	0	0	0	1	1	0	1	0	0	
## 4	1	1	0	1	0	0	0	1	1	0	1	0	1	
## 5	1	1	0	1	0	0	1	1	1	0	1	0	1	
## 6	1	1	0	1	0	0	0	1	1	0	0	0	1	
##	NA	IRS2	PXN	TMSB4X	IGHM	MUC1	S100A8	ESR1	RORB	CDKN1B	APC	MAF	CSF2RA	SMURF2
## 1	1	1	0	1	0	0	0	0	0	0	0	1	1	0
## 2	1	1	0	0	0	1	1	0	0	0	0	1	1	0
## 3	1	1	0	0	0	0	0	1	0	0	0	1	1	0
## 4	1	1	0	1	0	0	0	1	0	1	1	1	1	0
## 5	1	1	0	1	0	1	1	0	0	0	1	1	1	0
## 6	1	1	0	0	0	0	0	0	0	0	1	1	1	0
##	IGFBP3	LCK	ITGA4	MAP2K4	CXCR4	PLEKHF2	MCRS1	PRMT5	EIF4A2	HMGB2	CASP3	TRIP6		
## 1	0	0	0	0	1	1	1	0	1	0	1	0		
## 2	0	0	0	0	1	0	0	0	1	0	0	0		
## 3	0	0	0	0	1	0	0	0	1	0	0	0		
## 4	0	0	0	0	1	0	1	0	1	0	1	0		
## 5	0	0	0	0	1	1	1	0	1	0	1	0		
## 6	0	0	0	0	1	0	0	0	1	0	0	0		
##	ABL2	TSHR	PXN	TCF25	ITGA2B	NRP1	CASP3	HDAC4	MCF2	CEP126	EXOSC6	ADRA1B	CSNK2B	
## 1	1	1	1	1	1	0	1	1	1	0	0	1	1	

## 2	1	1	1	1	1	0	1	1	1	0	0	0	1	
## 3	1	1	0	1	0	0	1	1	1	0	0	0	0	
## 4	1	1	1	1	1	0	1	1	1	0	0	1	1	
## 5	1	1	1	1	1	0	1	1	1	0	0	1	1	
## 6	1	1	0	1	0	0	1	1	1	0	0	1	1	
##	MCM5	TGFBRAP1	SMAD3	HNRNPA2B1	RCN3	VAV1	NA	EPOR	NBPF3	EDA2R	MAPK3	ITGA6	CEBPA	
## 1	0	0	0	1	0	0	1	0	1	0	0	0	0	
## 2	0	0	1	1	0	0	1	0	1	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	1	0	0	1	0	1	0	0	0	0	
## 5	0	0	0	1	0	0	1	0	1	0	0	0	0	
## 6	0	0	0	1	0	0	0	0	1	0	0	0	0	
##	SMAD4	ANK2	PA2G4	C1QBP	PTPN6	PRPF4B	SERPINA4	LAMA4	DNAJA1	EGFR	TLX1	DDX20		
## 1	0	0	1	0	1	0	0	0	0	0	0	0	1	
## 2	0	1	0	0	1	0	1	0	0	0	0	0	1	
## 3	0	0	0	0	1	0	1	0	0	0	0	0	1	
## 4	0	0	0	0	1	1	1	0	0	0	0	0	1	
## 5	0	0	0	0	1	0	1	0	0	0	0	0	1	
## 6	0	0	0	0	1	0	1	0	0	0	0	0	1	
##	ITGA6	KLRC2	DLG2	SEMA3F	RAD51	SLC9A3R1	MAPK8IP2	MAP3K3	GRK5	TRAF2	SMN1	COL1A2		
## 1	0	0	1	1	0	1	1	1	0	0	0	0	1	
## 2	1	0	1	1	0	0	1	1	0	0	0	0	1	
## 3	0	0	0	1	0	0	1	0	0	0	0	0	1	
## 4	0	0	1	1	0	1	1	0	1	0	0	0	1	
## 5	0	0	1	1	0	1	1	0	0	0	0	0	1	
## 6	0	0	1	1	0	1	0	1	0	0	0	0	1	
##	HDHD2	LCK	HCK	ASCC2	U2AF1	TRA	ERBB2	COP1	TRAF2	KLF13	PEX5	DLG1	SH2B2	IL13RA2
## 1	0	0	1	0	1	1	0	1	0	0	0	1	1	1
## 2	0	0	1	0	1	1	0	1	0	0	0	1	0	1
## 3	0	0	1	0	1	1	0	0	0	0	0	0	0	1
## 4	0	0	1	0	1	1	0	1	0	0	0	1	0	1
## 5	0	0	1	0	1	1	0	1	0	0	0	1	0	1
## 6	0	0	1	0	1	1	0	0	0	0	0	0	0	1
##	VANGL1	AKT1	STX1A	SMAD9	SUMO4	KREMEN1	ATN1	RBL2	NKX2-5	CR1	RPS6KA2	PRMT1		
## 1	0	1	1	1	0	1	0	0	0	1	1	1	1	
## 2	0	0	1	1	0	1	1	0	0	0	0	0	1	
## 3	0	0	1	1	0	1	0	0	0	0	0	0	0	
## 4	0	1	1	1	0	1	0	0	0	1	0	0	1	
## 5	0	1	1	1	0	1	0	0	0	1	0	0	1	
## 6	0	0	0	1	0	1	0	0	0	1	0	0	1	
##	SMAD3	GRIN1	TNPO1	PIK3CB	CASP6	NOTCH1	PTN	FYN	GPS1	SNCA	ZFYVE9	ZBTB16	GOLGA2	
## 1	1	0	1	1	0	0	1	0	1	0	0	0	0	
## 2	1	0	0	1	0	0	1	1	1	1	0	1	0	
## 3	0	0	0	1	0	0	1	0	1	0	0	1	0	
## 4	0	0	0	1	0	0	1	1	1	1	0	1	0	
## 5	0	0	0	1	0	0	1	1	1	1	0	1	0	
## 6	0	0	0	1	0	0	1	1	1	1	0	1	0	
##	CSNK1E	EPHA7	NUMB	ITGB2	MEF2A	LNX1	SCAF11	CD82	RXRA	SHBG	CCDC106	PRKCZ	ZNF408	
## 1	1	1	1	1	0	1	1	1	0	1	1	1	1	
## 2	1	1	1	1	0	1	0	1	0	1	1	1	1	
## 3	0	0	1	0	0	0	0	1	0	0	1	1	0	
## 4	1	1	1	1	0	1	0	1	0	1	1	1	0	
## 5	1	1	1	1	0	1	0	1	0	1	1	1	0	
## 6	0	0	1	1	0	1	0	1	0	1	1	1	0	

##	MYC	PPP1R8	TRAF6	PDCD6IP	RARA	RHEBL1	SYT7	PTK2	JUN	MYBBP1A	HPS6	ECT2	SLC9A3R1	
## 1	1	0	0	0	1	0	0	1	1	1	1	0	0	
## 2	1	0	0	0	1	0	0	1	1	0	1	0	0	
## 3	1	0	0	0	1	0	0	1	0	1	0	0	0	
## 4	1	0	0	0	1	0	0	1	1	1	1	0	1	
## 5	1	0	0	0	1	0	0	1	1	1	1	0	1	
## 6	1	0	0	0	1	0	0	1	1	1	1	0	0	
##	EGR1	TRIP12	PAK6	ISL1	NFKBIE	CTBP2	NDUFB11	MAPK1	GNA15	TNFAIP3	CBX4	AXIN1		
## 1	0	0	0	0	0	0	0	0	1	1	1	1		
## 2	0	0	0	0	0	1	0	0	0	1	0	0		
## 3	0	0	0	0	0	1	0	0	0	1	0	0		
## 4	1	1	0	0	0	1	0	0	1	1	0	0		
## 5	1	1	0	0	0	1	0	0	1	1	1	1		
## 6	1	0	0	0	0	0	0	0	1	1	0	0		
##	H4C1	SGK1	BLOC1S6	NIN	ADD1	LRIF1	CALR	PLCG1	GNB1	LRIF1	AKT1	BAG6	SYK	MAP3K14
## 1	0	0	1	0	0	1	1	1	1	0	1	1	0	0
## 2	0	0	0	0	0	1	0	0	0	0	1	1	0	0
## 3	0	0	1	0	0	1	0	0	0	0	1	1	0	0
## 4	0	0	1	0	0	1	0	1	1	0	1	1	0	0
## 5	1	0	0	0	0	1	1	1	1	0	1	1	0	0
## 6	0	0	0	0	0	1	1	0	0	0	1	1	0	0
##	ADGRB2	RBBP8	KRT19	IFNAR1	RAE1	FHOD1	DAB1	GATA1	ZNF205	TRAF1	EPRS1	TNFRSF14		
## 1	0	0	1	1	0	0	1	1	0	0	0	1		
## 2	0	0	1	0	0	0	1	0	1	0	0	1		
## 3	0	0	1	1	0	0	0	0	0	0	0	1		
## 4	0	0	1	1	0	0	1	0	0	1	0	1		
## 5	0	0	1	1	0	0	1	0	0	0	0	1		
## 6	0	0	1	1	0	0	1	0	0	1	0	1		
##	PRKAR2A	PTPRZ1	CSNK2A1	ZC3HC1	MSH2	EPB42	SMAD4	TP53	SACS	ERC1	CRELD1	PPP1R9B		
## 1	1	0	1	1	1	1	0	0	0	0	0	1		
## 2	0	0	0	0	1	0	0	0	0	0	1	1		
## 3	0	0	0	0	0	0	0	0	0	0	0	1		
## 4	1	0	1	1	1	1	1	0	0	0	0	1		
## 5	1	0	1	1	1	1	0	0	0	0	0	1		
## 6	1	0	1	0	1	0	0	1	0	0	1	1		
##	OSGEP	E2F1	TEC	ETV1	ATF7	GNB1	ERG28	KRT8	HOXC4	CCNB1	FES	RAI14	EPS15	CELSR3
## 1	1	1	1	0	1	0	0	1	1	0	1	0	1	1
## 2	1	1	0	0	1	0	0	1	1	0	1	0	1	1
## 3	1	0	0	0	1	0	0	0	0	0	0	0	0	1
## 4	1	1	0	0	1	0	0	1	1	0	1	0	1	1
## 5	1	1	1	0	1	0	0	1	1	0	1	0	1	1
## 6	1	0	0	0	1	0	0	1	1	0	1	0	1	1
##	PTK2B	DAG1	KPNA1	PHPT1	NR1D2	RAP1A	EFEMP2	RGS1	IRS1	FZD4	REM1	CAV3	NRBF2	
## 1	0	1	1	0	1	0	1	0	1	0	1	1	0	
## 2	0	1	0	0	0	0	1	0	1	0	1	1	0	
## 3	0	0	0	0	0	0	1	0	0	0	1	1	0	
## 4	0	1	1	0	1	1	1	0	1	0	1	1	0	
## 5	0	1	1	0	1	0	1	0	1	0	1	1	0	
## 6	0	1	0	0	0	0	1	0	1	0	1	1	0	
##	SKOR1	PRTFDC1	RAP1A	SRC	STAT1	MAPK8IP2	H3-4	CALCOCO2	TEX37	RPS6KB1	STAT2	UBB		
## 1	0	1	1	1	1	1	1	1	1	1	1	1	1	
## 2	0	1	1	1	0	0	1	0	1	1	1	1	1	
## 3	0	1	0	0	0	1	1	0	0	0	0	1	1	
## 4	0	1	1	1	1	1	1	1	1	0	0	1	1	

## 5	0	1	1	1	1	1	1	1	1	0	1	1	
## 6	0	1	1	1	1	1	1	0	1	0	1	1	
##	CREBBP	TUBA1A	AP1M1	MAPK10	HGS	FHL2	TRAF2	RHO	TAF9	STAT3	MPPED1	RIPK1	MDFI
## 1	1	0	0	1	0	1	1	1	1	1	1	1	0
## 2	0	0	0	0	0	1	1	1	0	1	1	1	0
## 3	1	0	0	0	0	1	1	1	0	1	1	1	0
## 4	0	0	0	0	0	1	1	1	0	1	1	1	0
## 5	0	0	0	0	1	1	1	1	0	1	1	1	0
## 6	1	0	0	0	0	1	1	1	0	1	1	1	0
##	SUB1	PTPN6	CALM2	RPL5	TK1	PPARD	UBAC2	FRS2	HNRNPK	NCK1	COPS5	CFL1	NOTCH2
## 1	0	1	0	0	1	1	1	0	1	1	1	1	0
## 2	0	1	0	0	1	0	1	1	1	1	0	0	0
## 3	0	1	0	0	1	0	1	1	1	0	0	0	0
## 4	0	1	0	0	1	1	0	0	1	0	0	1	0
## 5	0	1	0	0	1	1	0	0	1	0	0	1	0
## 6	0	1	0	0	1	1	0	0	1	0	0	0	0
##	PPP3CB	TBP	KCTD15	SYNJ1	ADGRB1	POLR2E	GUSBP14	UNC119	YWHAG	KLHL23	RPL18A		
## 1	1	1	1	0	1	1	0	0	1	1	1	0	
## 2	1	1	1	0	1	0	0	0	1	1	1	0	
## 3	1	1	0	0	1	0	0	0	0	0	0	0	
## 4	1	1	1	0	1	0	0	0	1	1	1	0	
## 5	1	1	1	0	1	0	0	1	1	1	1	0	
## 6	1	1	1	0	1	0	1	1	1	1	1	0	
##	YWHAE	AR	PDGFRA	SKIL	BMPR1B	HSPA5	GNA12	EIF2B1	DNAJB1	EWSR1	WT1	MSX2	ACTB
## 1	0	1	0	0	0	1	1	1	1	1	0	0	1
## 2	0	1	0	0	0	0	1	0	1	1	0	0	0
## 3	0	1	0	0	0	0	1	0	1	1	0	0	0
## 4	0	1	0	0	0	1	1	0	1	1	0	0	0
## 5	1	1	0	0	0	1	1	0	1	1	0	0	1
## 6	0	1	0	0	0	1	1	0	1	1	0	0	0
##	MAPK12	CUX1	F10	GPS1	YWHAZ	CASP7	PLSCR3	FLNC	SMAD3	RGS19	KPNB1	COL17A1	RARA
## 1	1	1	0	0	0	1	0	1	1	0	1	0	0
## 2	1	1	0	0	0	1	0	1	1	0	1	1	0
## 3	1	1	0	0	0	1	0	0	1	0	1	0	0
## 4	1	1	0	0	0	1	0	1	1	0	1	1	0
## 5	1	1	0	0	0	1	0	1	1	0	1	0	0
## 6	1	1	0	0	0	1	0	1	1	0	1	0	0
##	CTNNB1	YWHAH	YWHAZ	NFATC2	MRPL44	KAT5	RHOH	STAT3	BLM	EEF1G	STXBP1	KAT2B	MST1R
## 1	1	0	0	0	0	0	1	0	0	0	0	1	0
## 2	1	0	0	1	1	0	0	0	0	0	0	1	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	1	0	0	0	0	0	0	0	1	0
## 5	1	0	0	1	0	0	0	0	1	0	0	1	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0
##	DVL2	CAV1	HNRNPA2B1	NRP2	GLP1R	SMAD2	CHUK	COL2A1	GPRASP1	PIK3CD	RAD23A	EP300	
## 1	0	1	1	0	0	1	0	1	0	1	0	1	
## 2	1	1	1	0	1	1	1	1	0	1	0	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	0	
## 4	0	1	1	0	0	1	1	1	0	1	0	1	
## 5	0	1	1	0	0	1	1	1	0	1	0	1	
## 6	0	1	0	0	0	1	1	1	0	1	0	0	
##	GATA4	PPARG	CUL1	FEZ1	EXOC8	TRAF2	KIAA1107	PRKCZ	LRP3	GRB7	CDH2	HSP90AB1	
## 1	0	1	1	1	1	0	1	0	1	0	1	1	
## 2	0	0	1	0	1	0	1	0	1	0	0	0	

## 3	0	0	0	1	0	0	0	0	1	0	0	0		
## 4	0	1	1	1	1	0	1	0	1	0	1	0		
## 5	0	1	1	1	1	0	1	0	1	1	1	1		
## 6	0	1	1	0	0	0	1	0	1	0	1	0		
##	MEP1B	ADRA2B	ECM1	EGFR	FYN	CHD4	RAP1B	BRCA1	RPLP1	YWHAG	YWHAB	EPB41	PLXNB2	
## 1	0	1	1	1	1	0	0	0	1	1	0	0	0	
## 2	0	1	1	1	0	0	0	0	1	1	0	0	0	
## 3	0	0	1	0	0	0	0	0	0	1	0	0	0	
## 4	1	1	1	1	1	0	0	0	1	1	0	0	0	
## 5	1	1	1	1	1	0	0	0	1	1	0	0	0	
## 6	0	1	1	1	0	0	0	0	1	1	0	0	0	
##	TTN	RARA	ZNF638	LRIF1	PML	SYNGAP1	MAPK8IP2	MEIS1	YWHAE	RIC8A	NUDT3	PSMD11		
## 1	0	1	1	0	0	0	0	0	1	0	0	0	0	
## 2	0	1	0	0	0	0	0	0	1	0	0	0	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	1	0	0	0	0	0	1	0	0	0	0	
## 5	0	1	1	0	0	0	0	0	1	0	0	0	0	
## 6	0	1	1	0	0	0	0	0	0	0	0	0	0	
##	GRIA2	PKM	NA	RANBP9	PXN	MET	ANXA7	ACKR4	BCL6	MYBL2	RPS6KA6	CDK1	ESR2	MATR3
## 1	0	1	1	1	0	1	1	0	0	1	1	1	0	0
## 2	0	1	1	0	0	0	1	0	0	1	0	0	0	0
## 3	0	1	1	0	0	0	1	0	0	1	1	0	0	0
## 4	0	0	1	1	0	1	1	0	0	1	1	1	0	0
## 5	0	0	1	0	0	0	1	0	0	1	1	0	0	0
## 6	0	0	1	0	0	0	1	0	0	1	1	1	0	0
##	CTSG	PIAS4	TP53	PTPRC	PTPN6	PPP1R16A	NOL12	JAK3	RAB1A	PREP	LMNA	SOS1	SEPTIN3	
## 1	0	1	1	1	0	1	1	0	0	0	0	1	1	1
## 2	0	1	1	1	0	0	0	1	0	0	0	1	0	0
## 3	0	0	1	1	0	0	0	0	0	0	0	1	0	0
## 4	0	1	1	1	0	0	0	1	0	0	0	1	1	0
## 5	1	1	1	1	0	0	0	1	0	0	0	1	0	0
## 6	0	1	1	1	0	0	0	1	0	0	0	1	0	0
##	PSEN2	SNCA	IL5RA	RARA	TAX1BP1	PPRC1	DRD1	SCYL1	VAV1	HOXB2	ATM	GOLGA2	CSF2RB	
## 1	1	1	0	1	0	0	1	1	1	1	0	0	1	1
## 2	1	1	1	1	0	0	1	0	0	1	0	1	0	0
## 3	1	1	0	0	0	0	0	0	0	1	0	0	0	0
## 4	1	1	0	1	0	0	1	1	0	1	0	0	1	1
## 5	1	1	0	1	0	0	1	0	0	1	0	0	1	1
## 6	1	1	1	1	0	0	1	1	0	1	0	0	1	1
##	LHCGR	YWHAB	HDAC3	CD247	SMAD1	CDC42	CAPZA1	TTN	TOP2A	KDM1A	ADA	KMT2B	ARHGDI	B
## 1	1	0	1	1	0	1	1	1	1	1	1	1	1	0
## 2	0	0	0	0	0	1	0	0	0	1	1	1	1	0
## 3	0	0	0	1	0	0	0	0	0	0	1	0	0	0
## 4	0	0	0	1	0	1	0	1	0	0	1	1	1	0
## 5	0	0	1	1	0	1	0	1	0	1	1	1	1	0
## 6	0	0	0	1	0	1	0	1	0	1	1	1	1	0
##	BCL6	PTK2B	RBBP4	HR	CEBPB	SNTA1	ADAMTS10	VLDLR	SMAD5	CD9	SPTBN1	IGF2R	PRKAR1A	
## 1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
## 2	1	1	1	1	0	1	0	1	1	1	1	1	1	1
## 3	0	0	0	1	0	1	0	1	0	1	1	1	1	0
## 4	1	1	1	1	0	1	1	1	1	1	1	1	1	0
## 5	1	1	0	1	0	1	0	1	1	1	1	1	1	0
## 6	0	1	0	1	0	1	0	1	1	1	1	1	1	0
##	MYOG	CALM1	OPRM1	LRP5	MYF6	PLD2	TUBA1A	IL6R	CHD3	HSPB3	HNRNPH3	UTP3	HOXA5	

## 1	0	0	0	0	0	0	1	0	0	1	1	1	0	
## 2	0	0	0	0	0	0	1	0	0	1	1	1	1	
## 3	0	0	0	0	0	0	0	0	0	1	0	1	0	
## 4	0	0	0	1	0	0	1	0	0	1	1	1	1	
## 5	0	0	0	1	0	0	1	1	0	1	1	1	0	
## 6	0	0	0	1	0	0	0	1	0	1	1	1	0	
##	TUBA4A	GDF5	CHD3	GATA1	SMN1	NKX2-1	PRKACA	GRIN1	VAV2	ATXN1	MAPK1	BRMS1	APTX	
## 1	1	0	1	1	1	0	0	1	0	0	0	1	1	
## 2	1	0	1	1	0	0	0	1	0	0	1	1	1	
## 3	0	0	1	1	0	0	0	1	1	0	0	1	1	
## 4	1	0	1	1	0	0	1	1	0	0	1	1	1	
## 5	1	0	1	1	1	0	0	1	1	0	1	1	1	
## 6	1	0	1	1	0	0	0	1	0	0	1	1	1	
##	CLTC	PIP5K1C	LCP2	PTPRG	EEF1A1	STAT2	VAV3	GADD45A	RARA	AP2B1	TUBG1	KRT18		
## 1	0	0	1	0	1	0	0	0	0	1	1	1		
## 2	0	0	0	0	1	0	0	0	0	1	1	0		
## 3	0	0	0	0	1	0	0	0	0	0	0	0		
## 4	0	0	0	0	1	0	0	0	0	1	1	0		
## 5	0	0	0	0	1	0	0	0	0	1	1	1		
## 6	0	0	0	0	1	0	0	0	0	1	1	0		
##	MPHOSPH6	PCNA	ILF2	PDGFRB	PLCD1	EEF1A1	GABRR1	KPNA2	MAPK12	UBC	PTPN11			
## 1	0	0	0	1	0	1	1	0	0	1	0			
## 2	1	0	0	1	0	1	1	0	0	1	0			
## 3	0	0	0	0	0	1	0	0	0	1	0			
## 4	1	0	0	1	0	1	1	0	0	1	1			
## 5	1	0	0	1	0	1	1	0	0	1	1			
## 6	1	0	0	1	0	1	1	0	0	1	0			
##	MAPK8IP3	DNM2	PPP3CA	DBNL	LRP1	GRB2	TLN1	POLB	ESR1	ABI2	EP300	GZMB	TRAF6	NEK2
## 1	1	0	0	1	0	0	0	0	1	1	1	1	1	1
## 2	1	0	0	0	0	0	0	0	0	0	1	1	1	0
## 3	1	0	0	1	0	0	0	0	0	0	1	0	1	0
## 4	1	0	0	1	0	0	0	0	0	1	1	1	1	1
## 5	1	0	0	1	0	0	0	0	0	1	1	1	1	1
## 6	1	0	0	1	0	0	0	0	0	1	1	0	1	0
##	IL18RAP	NRP1	SHBG	IGLON5	PGR	RELA	SMN1	HDAC2	GRIA3	ITGB3	RUNX1	ADCYAP1	DNM2	
## 1	1	0	0	1	1	0	0	1	1	0	1	1	0	
## 2	1	0	0	0	1	0	0	1	1	0	1	1	0	
## 3	1	0	0	0	1	0	0	1	1	0	0	1	0	
## 4	1	0	0	0	1	0	1	1	1	0	0	1	1	
## 5	1	0	0	1	1	0	1	1	1	0	1	1	0	
## 6	1	0	0	0	1	0	1	1	1	0	0	1	0	
##	ERH	EP300	CD82	PIAS4	ZAP70	RAP2A	SMN1	PPFIA1	CFAP52	NFE2L2	YWHAZ	RABAC1	PTK2	
## 1	1	0	1	0	1	1	0	1	0	0	0	0	0	
## 2	0	0	1	0	0	0	0	1	0	1	0	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	0	1	1	0	1	0	1	0	0	0	
## 5	0	0	1	0	1	0	0	1	0	0	0	0	0	
## 6	0	0	1	0	0	0	0	1	0	0	0	0	0	
##	ACTL6A	KCTD17	PTPN6	ERP27	FBNP4	BIRC3	CEBPB	RXRA	PHF10	MAPK1	INSR	STAP2	MEGF6	
## 1	1	0	1	1	0	0	1	0	0	0	0	0	0	
## 2	1	0	0	0	0	0	1	0	0	0	0	0	0	
## 3	1	0	0	1	0	0	1	0	0	0	0	0	0	
## 4	1	0	1	1	1	0	1	0	0	0	0	0	0	
## 5	1	0	1	0	1	0	1	0	0	0	0	0	0	

## 6	1	0	1	0	0	0	1	0	0	0	0	0	0
##	CEP250	TNFRSF1A	PTK2	PTPRR	ABLIM1	ATXN1	CXCR4	DDX20	CST3	TGFBR1	UBQLN4	FLT1	
## 1	0	1	0	0	1	0	0	0	1	1	1	1	
## 2	0	1	0	0	0	0	0	0	1	1	1	1	
## 3	0	1	1	1	0	0	0	0	0	0	0	1	
## 4	0	1	1	1	1	0	0	0	1	1	1	1	
## 5	0	1	1	1	1	0	0	0	1	1	1	1	
## 6	0	1	1	1	0	0	0	0	1	1	1	1	
##	PECAM1	FGFR3	NUDT18	CHUK	NR2F1	SMAD4	SRSF5	ITGA5	RASA1	PALS2	YWHAB	HCFC1	
## 1	1	0	1	1	1	1	0	0	0	0	0	0	
## 2	1	1	1	0	1	1	0	0	0	0	0	0	
## 3	1	0	1	0	0	1	0	0	0	0	0	0	
## 4	1	1	1	0	1	1	0	0	1	0	0	0	
## 5	1	1	1	0	0	1	0	0	0	0	0	1	
## 6	1	1	1	0	0	1	0	0	1	0	0	0	
##	MARK3	NFE2L2	PRKCZ	SHC2	TRAF2	SP1	GNB5	PLSCR1	HSPA1A	FSCN1	MYD88	FADD	PJA1
## 1	0	0	0	0	1	0	0	1	0	0	1	0	0
## 2	0	0	0	0	0	0	0	1	0	0	1	0	0
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0
## 4	1	0	0	0	0	0	0	1	0	0	1	1	0
## 5	1	0	0	0	0	0	0	1	0	0	1	1	0
## 6	0	0	0	0	0	0	0	1	0	0	1	1	0
##	LMNA	YWHAE	INA	FYN	GRM5	WIPF2	TXK	TLE5	KRT18	ABI2	VCP	MAPK6	PTK2B
## 1	0	0	1	0	0	0	0	1	1	0	0	0	1
## 2	0	0	1	0	0	0	0	1	1	0	0	0	1
## 3	0	0	1	0	0	0	0	1	0	0	0	0	0
## 4	0	1	1	0	1	0	0	1	1	0	0	0	1
## 5	0	1	1	0	1	0	0	1	1	0	0	0	1
## 6	0	0	1	0	1	0	0	1	1	0	0	0	1
##	ACTG1	PTK2	BTK	PLSCR1	SCAMP1	PRKCA	FGFR3	BEX3	HIPK3	MAPK3	DDX24	TNFSF11	MMP2
## 1	0	1	0	1	1	1	1	1	1	1	1	1	0
## 2	0	0	0	1	1	1	0	0	0	1	1	0	0
## 3	0	0	0	1	1	0	0	0	0	1	1	0	0
## 4	0	1	0	1	1	1	0	1	1	1	1	1	0
## 5	0	1	0	1	1	1	0	0	1	1	1	0	0
## 6	0	0	0	1	1	1	0	0	1	1	1	0	0
##	HOOK2	BCL2	MERTK	JAK1	APP	NEDD8	HTT	MMP7	MYC	JAK2	GRM2	YWHAZ	DDIT3
## 1	1	1	0	0	1	1	0	1	0	0	1	0	1
## 2	1	1	0	0	0	1	0	1	0	0	1	0	0
## 3	1	1	0	0	0	1	0	1	0	0	0	0	0
## 4	1	1	0	0	1	1	0	1	0	0	1	0	1
## 5	1	1	0	0	1	1	0	1	0	0	1	0	1
## 6	1	1	0	0	0	1	0	1	0	0	0	1	0
##	SH3PXD2A	SMAD3	PLCB2	OPRM1	RAC1	ESR1	PTK2B	DNAJC7	CSNK1A1	PPP1R2	BTK	LDOC1	
## 1	1	1	0	1	0	1	1	1	1	1	1	1	0
## 2	0	1	0	1	0	1	1	1	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	1	1	1	0
## 4	0	0	0	1	0	1	0	1	1	1	1	1	0
## 5	0	0	0	1	0	1	0	1	1	1	1	1	0
## 6	0	0	0	0	0	1	0	0	0	1	1	1	0
##	PTN	AGT	CCNH	CCK	HTR2A	SMAD4	TNFRSF1A	EED	NEDD9	MAF	BARD1	FGA	MAGOH
## 1	0	1	1	1	1	0	0	0	0	1	0	0	1
## 2	0	1	1	1	1	0	0	0	0	1	0	0	0
## 3	0	1	1	0	0	0	0	0	0	1	0	0	0

## 4	0	1	1	1	1	0	0	0	0	1	0	0	1	0
## 5	0	1	1	1	1	0	0	0	0	1	1	0	1	0
## 6	0	1	1	1	1	0	0	0	0	1	0	0	1	0
##	RPS6KA1	TLR9	ABCC9	SP1	CCR6	TRAF2	SRF	HGS	ITGB1	SLC2A1	TAF5	TK1	CASP3	NISCH
## 1		0	0	1	1	1	0	0	0	1	0	1	0	1
## 2		0	0	1	0	1	0	0	0	1	0	1	0	1
## 3		0	0	1	0	1	0	0	0	0	0	1	0	0
## 4		0	0	1	1	1	0	0	0	1	0	1	0	1
## 5		0	0	1	1	1	0	0	0	1	0	1	0	1
## 6		0	0	0	1	1	0	0	0	0	0	1	0	1
##	PSME3	A2M	TUBB3	SPI1	L1CAM	ELOB	GDPD2	DLG1	YWHAZ	BMP2	NTSR1	ADGRB2	THY1	TCF3
## 1		0	1	1	1	0	1	1	1	0	1	1	0	1
## 2		0	1	1	1	0	0	1	0	0	0	0	0	1
## 3		0	1	0	1	0	0	1	0	0	0	0	0	1
## 4		0	1	1	1	0	1	1	0	0	0	1	0	1
## 5		0	1	1	1	1	1	1	0	0	0	1	0	1
## 6		0	1	0	1	0	0	1	0	0	0	0	0	1
##	NCOA1	THBS1	CD4	RB1	CHAF1A	PFKM	NEDD4L	CHAT	PFKFB2	SPP1	EED	PELP1	PAK1	PTPRU
## 1		1	1	1	1	1	1	1	0	0	1	0	0	1
## 2		1	1	1	1	0	1	1	0	0	0	0	0	1
## 3		0	1	1	1	0	1	1	0	0	1	0	0	0
## 4		1	1	1	1	1	1	1	0	0	1	0	0	1
## 5		1	1	1	1	1	1	1	0	0	1	0	0	1
## 6		1	1	1	1	1	1	1	0	0	1	0	0	0
##	ORC2	RAB5B	SLC9A1	DDX39B	DLG1	KIT	HNRNPL	FLAD1	NECAP2	TNFRSF1A	USP45	CFDP1		
## 1		0	0	1	1	0	1	1	0	1	1	1	1	
## 2		0	0	1	0	0	1	1	0	1	1	1	1	
## 3		0	0	0	0	0	0	1	0	0	0	1	0	
## 4		1	0	1	0	0	1	1	0	1	1	1	1	
## 5		1	0	1	1	0	1	1	0	1	1	1	1	
## 6		0	0	1	0	0	1	1	0	0	1	1	0	
##	IRAK1	PLEKHA1	WT1	ITGA2	GABRR1	RXR	NKIRAS2	POLR1C	ACTG1	BRIX1	FYN	GRIN1	RAN	
## 1		0	1	1	1	1	1	0	0	0	0	1	0	1
## 2		0	0	1	1	0	1	0	0	0	0	0	1	1
## 3		0	1	1	0	0	0	0	0	0	0	0	0	0
## 4		0	1	1	1	1	1	0	0	0	0	1	1	1
## 5		0	0	1	1	1	1	0	0	0	0	1	1	1
## 6		0	1	1	1	1	0	0	0	0	0	1	1	1
##	ARHGEF6	PIM1	LRIF1	CTSG	SMAD2	SMAD2	CMTM6	UNC119	AHR	CREBBP	TRAF2	TGM2	DNAJB1	
## 1		1	1	1	0	1	1	0	1	1	1	1	1	1
## 2		1	1	1	0	0	0	1	0	0	1	0	1	0
## 3		0	0	1	0	0	0	1	0	0	1	0	0	0
## 4		1	1	1	0	1	0	1	0	0	1	0	1	1
## 5		1	1	1	0	1	0	1	0	1	1	0	1	1
## 6		1	0	1	0	0	0	1	0	0	1	0	1	0
##	TJP1	GP5	SETDB1	NA	CHEK2	MEF2A	YWHAZ	THRB	MYO5A	UBR1	YWHAZ	CREBBP	PPP2CA	
## 1		1	0	1	1	1	1	0	0	1	1	1	0	
## 2		1	0	0	0	1	1	0	0	0	1	1	0	
## 3		0	0	0	0	1	0	0	0	0	1	1	0	
## 4		1	0	0	1	1	1	0	0	1	1	1	0	
## 5		1	0	1	1	1	1	0	0	0	1	1	0	
## 6		0	0	0	1	1	0	0	0	1	1	1	0	
##	NCBP1	KHDRBS1	PGAM5	MAPK6	KRT15	PDGFRA	MAPK11	MON1A	ARHGAP32	CD4	FGFR3	TGFBR1		
## 1		0	0	0	1	0	1	1	1	0	1	1	0	

## 2	0	0	0	1	0	1	0	0	0	1	0	0		
## 3	0	0	0	1	0	1	1	0	0	0	0	0		
## 4	0	0	0	1	0	1	1	1	0	1	0	0		
## 5	0	0	0	1	0	1	1	1	0	1	1	0		
## 6	0	0	0	1	0	0	0	0	0	1	0	0		
##	MYLK	CHUK	CACNA1C	NCOA1	PARP1	GRB10	EXOSC4	KPNB1	CDC42	IQGAP1	PTK2	CCNA2	THRA	
## 1	0	0	1	0	1	0	0	1	0	0	1	1	1	
## 2	0	0	1	0	0	0	0	1	0	0	1	1	1	
## 3	0	0	1	0	0	0	0	1	0	0	0	1	1	
## 4	0	0	1	0	0	0	0	1	0	0	1	1	1	
## 5	1	0	1	1	0	0	0	1	0	0	1	1	1	
## 6	0	0	1	1	0	0	0	1	0	0	1	1	1	
##	UPF2	CD28	SMG1	MECR	MAP4K1	ACTG1	POLA2	NRIP1	BAG6	MAPK8IP2	VTN	GEMIN5	LYN	
## 1	1	1	0	0	1	1	1	1	0	0	1	1	0	
## 2	0	0	0	0	1	1	1	1	0	0	1	1	0	
## 3	0	0	0	0	1	1	0	1	0	0	1	1	0	
## 4	0	0	0	1	1	1	1	1	0	0	1	1	0	
## 5	0	0	0	0	1	1	1	1	0	0	1	1	0	
## 6	0	0	0	0	1	1	1	1	0	0	1	1	0	
##	SMAD2	SH3KBP1	CEP126	CAPN1	RPS6KA5	CDKN1A	KIT	CHEK2	CUBN	DDX39A	CEP70	CREBBP		
## 1	1	1	1	1	0	0	0	1	0	1	1	1		
## 2	1	1	0	0	0	0	1	1	0	1	1	1		
## 3	1	0	0	0	0	0	0	0	0	1	1	0		
## 4	1	1	1	0	0	0	0	1	0	1	1	1		
## 5	1	1	1	1	0	0	0	1	0	1	1	1		
## 6	1	1	1	1	0	0	0	1	0	1	1	1		
##	MC2R	CREM	YWHAG	ATP2A2	PPP1R16A	POLI	SUM04	TGM2	STUB1	CREBBP	EGFR	SOS1	PTPRE	
## 1	1	0	1	1	0	0	0	0	1	0	1	0	0	
## 2	1	0	0	1	0	0	0	0	1	0	1	0	0	
## 3	1	0	0	1	0	0	0	0	1	0	1	0	0	
## 4	1	0	0	1	0	0	0	0	1	0	1	0	0	
## 5	1	0	0	1	0	0	0	1	1	0	1	0	0	
## 6	1	0	0	1	0	0	0	0	1	0	1	0	0	
##	CDKN1B	SDC4	STXBP1	PICK1	IL31RA	PPARD	TFDP2	MAP1B	SMARCD3	EIF3H	CACNG2	JAK1		
## 1	1	1	0	0	0	0	0	1	1	1	0	1		
## 2	1	1	0	0	1	0	0	1	1	0	0	1		
## 3	1	1	0	0	0	0	0	0	0	0	0	1		
## 4	1	1	0	0	1	0	0	1	1	1	0	1		
## 5	1	1	0	0	0	0	0	1	1	1	0	1		
## 6	1	1	0	0	1	0	0	0	1	1	0	1		
##	C1D	RBL2	RXRG	CNOT4	ATXN1	KLRC4	TLE1	TSHR	ITGB2	VIM	CTNND2	NADSYN1	CBX1	MAPK8
## 1	1	1	0	1	1	0	1	1	0	1	1	0	0	0
## 2	1	1	0	0	1	0	1	1	0	1	1	0	0	0
## 3	1	0	0	0	1	0	1	0	0	1	0	0	0	0
## 4	1	1	0	1	1	1	1	1	0	1	1	0	0	0
## 5	1	1	0	0	1	0	1	1	0	1	1	0	0	0
## 6	1	0	0	0	1	0	1	1	0	1	1	0	0	0
##	RASSF1	DAPK3	PSME3	HTATSF1	FGF6	HLA-B	PLOD3	CDK5R1	SERPINH1	AXIN1	COL4A1			
## 1	1	0	0	0	0	0	0	1	0	0	0	1		
## 2	0	0	1	0	0	0	0	1	0	0	0	1		
## 3	0	0	0	0	0	0	0	1	0	0	0	1		
## 4	0	0	0	0	0	0	0	1	0	0	1	1		
## 5	0	0	0	0	0	0	0	1	0	0	1	1		
## 6	0	0	0	0	0	0	0	1	0	0	1	1		

##	IQGAP2	SCMH1	SCTR	CDK9	PHYH	UBTF	IKBKB	LRFN1	MAPKAPK2	KLHL20	U2AF2	HAND2	
## 1	1	0	0	1	1	1	0	0	1	1	1	0	
## 2	1	0	0	1	1	1	0	0	1	1	1	0	
## 3	0	0	0	1	1	0	0	0	0	0	1	0	
## 4	1	0	0	1	1	0	0	0	1	1	1	0	
## 5	1	0	0	1	1	0	0	0	0	0	1	0	
## 6	1	0	0	1	1	0	0	0	0	0	1	0	
##	PDCD6IP	EPS8	PTPRO	NA	MAP3K3	NFATC2	RET	RPS27A	RIN1	SMURF2	PLXNB1	SELP	ICAM3
## 1	1	1	1	1	0	0	1	0	1	1	0	1	0
## 2	1	1	1	0	1	0	1	0	1	1	0	1	0
## 3	1	1	0	0	0	0	0	0	0	1	0	1	0
## 4	1	1	1	0	0	0	1	0	1	1	0	1	0
## 5	1	1	1	0	1	0	1	0	1	1	1	1	0
## 6	1	1	0	0	0	0	1	0	1	1	0	1	0
##	AKT1	STAT3	AFDN	WAS	RING1	TAF6	ITGA1	PVR	GRIN2B	WEE1	ASCC2	VAMP8	C16orf74
## 1	0	1	1	0	1	0	1	1	1	1	0	1	0
## 2	1	0	1	0	0	0	0	1	1	1	0	1	0
## 3	1	0	1	0	0	0	0	0	0	0	0	1	0
## 4	1	0	1	0	1	0	1	1	1	1	0	1	0
## 5	1	0	1	0	0	0	1	1	1	1	0	1	0
## 6	1	0	1	0	0	0	1	0	1	1	0	1	0
##	MAGEA1	ADRA1A	NEDD4	PRKCD	COL1A2	MAPK6	POU3F2	BIRC3	KLF5	PSMA1	SRSF3	ELANE	
## 1	1	0	1	1	0	0	0	0	1	1	1	1	1
## 2	0	0	1	1	0	0	0	0	1	0	1	1	1
## 3	0	0	1	1	0	0	0	0	0	0	0	1	1
## 4	0	0	1	1	0	0	0	0	1	1	1	1	1
## 5	0	0	1	1	0	0	1	1	1	1	1	1	1
## 6	0	0	1	1	0	0	0	0	1	0	1	1	1
##	PAFAH1B1	CDK1	ERBIN	PTGIR	PRDM1	H3-4	CRHR1	EP300	DYRK1A	TRAF6	DMD	GEMIN4	
## 1	0	1	0	0	1	1	1	1	1	1	1	0	
## 2	0	1	0	0	0	0	0	1	0	0	1	0	
## 3	0	1	0	0	0	0	0	1	0	0	1	0	
## 4	0	1	0	0	1	0	1	1	0	0	1	0	
## 5	0	1	0	0	1	0	1	1	1	1	1	0	
## 6	0	1	0	0	1	0	1	0	0	0	1	0	
##	XRCC6	UBB	MAPK14	UBB	PRPF40A	GLUL	GRP	H4C14	FLT4	PTK2B	EED	TDP2	PPP1R16A
## 1	1	1	1	1	1	0	1	1	0	0	1	0	1
## 2	1	0	0	0	1	0	0	1	0	0	1	0	1
## 3	1	0	0	1	1	0	0	1	0	0	0	0	1
## 4	1	1	1	1	1	0	1	1	0	0	1	0	1
## 5	1	1	1	1	1	0	1	1	1	0	1	0	1
## 6	1	1	1	1	1	0	1	1	0	0	1	0	1
##	CREBBP	SNRPF	CCDC33	RBL1	YES1	COL1A1	PIAS1	KDM6A	HOXB7	NOS1	SMN1	DUSP1	ARRB2
## 1	1	1	1	1	1	0	0	1	1	1	1	1	1
## 2	1	1	1	0	0	0	0	1	0	1	1	1	1
## 3	0	1	1	0	0	0	0	1	0	0	0	1	1
## 4	1	1	1	1	1	0	0	1	0	1	1	1	1
## 5	1	1	1	1	1	0	0	1	0	1	1	1	1
## 6	1	1	1	1	1	0	0	1	0	1	1	1	1
##	PBLD	SH3BP2	TUBB	TOP2B	ITFG1	MEX3B	AKT1	GSTO1	CTTN	PTPN6	HMG2	EEF1A1	TBP
## 1	1	1	1	0	0	1	1	1	1	1	0	0	0
## 2	0	0	0	0	0	1	1	0	0	1	0	0	0
## 3	0	0	0	0	0	1	1	0	0	1	0	0	0
## 4	1	0	0	0	0	1	1	0	1	1	0	0	1

## 5	1	0	0	0	0	1	1	0	0	1	0	0	0	
## 6	0	1	0	0	0	1	1	0	0	1	0	0	0	
##	SREBF2	MAPK1	PLSCR1	PLCG2	PDE6D	DLG3	ITGB2	CDK4	PLXNB1	PTPRM	MDM2	UBTF	BDKRB2	
## 1	1	1	0	0	1	1	0	0	1	1	0	0	1	
## 2	0	1	0	0	0	0	0	0	1	0	0	0	1	
## 3	0	0	0	0	0	0	0	0	1	0	0	0	1	
## 4	1	1	0	0	1	1	0	0	1	0	0	0	1	
## 5	1	1	1	0	0	1	0	0	1	0	0	0	1	
## 6	1	1	0	0	0	0	0	0	1	0	0	0	1	
##	SMAD2	GSK3B	CYCS	ITGB4	LAMA4	UBA52	EEF1D	HSPG2	NA	PFN1	NCOA3	PSMC3	CDK4	BMP4
## 1	1	1	0	1	1	1	1	1	0	1	0	0	0	0
## 2	1	1	0	1	0	1	0	0	0	1	0	0	1	0
## 3	0	1	0	1	0	1	0	0	0	1	0	0	0	0
## 4	1	1	0	1	0	1	1	0	0	1	0	0	1	0
## 5	1	1	0	1	0	1	0	0	0	1	0	0	1	0
## 6	1	1	0	1	0	1	1	0	0	1	0	0	1	0
##	CTNNB1	TBK1	H2AX	BCL2	PTPN2	COPS6	ING2	SAE1	NR1D2	ANXA1	PCYT2	FXR2	GPRASP2	
## 1	0	1	0	0	0	1	0	1	1	0	0	1	0	
## 2	0	1	0	0	1	1	0	0	1	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 4	1	1	0	1	1	1	1	1	1	0	0	1	0	
## 5	1	1	0	1	0	1	1	1	1	0	0	0	0	
## 6	0	1	0	0	1	1	1	1	1	0	0	0	0	
##	PACSIN2	HAUS2	KPNB1	IL12RB2	ATP5F1B	SLC25A4	TNIP2	MAG	DSP	HSPB3	RB1	KIR2DS1		
## 1	1	1	0	0	0	1	1	1	0	1	1	1		
## 2	0	1	0	0	0	1	0	1	0	1	1	1		
## 3	0	0	0	0	0	1	0	1	0	1	1	1		
## 4	1	1	0	0	0	1	1	1	0	1	1	1		
## 5	1	1	0	0	0	1	1	0	0	1	1	1		
## 6	0	1	0	0	0	1	1	0	0	1	1	1		
##	KNG1	GABPB1	FLNC	DLG3	SOSTDC1	SMAD2	ARHGEF11	SEPTIN8	SRC	SNRPD2	MAPK6	PRPF40A		
## 1	1	1	1	0	1	1	1	0	1	1	1	1		
## 2	1	1	1	0	1	1	1	0	1	1	1	1		
## 3	1	1	1	0	0	1	1	0	1	1	0	1		
## 4	1	1	1	0	1	1	1	0	1	1	1	1		
## 5	1	1	1	0	1	1	1	0	1	1	1	1		
## 6	1	1	1	0	1	1	1	0	1	1	1	1		
##	TIAM1	PRKCZ	MIB1	ACTN2	STAT5A	TUBA1A	TOP3B	SLC9A3R2	GPR135	SMAD9	COPG1	LNK1		
## 1	0	0	1	1	1	0	1	1	0	1	0	0		
## 2	0	1	0	0	0	0	1	1	0	1	0	0		
## 3	0	1	1	0	0	0	1	1	0	0	0	0		
## 4	0	1	1	1	1	0	1	1	1	1	0	0		
## 5	0	1	1	1	1	0	1	1	1	1	0	0		
## 6	0	1	1	0	1	0	1	1	0	1	0	0		
##	TNFRSF17	HMG20A	NOMO1	PIK3CA	PDGFRA	MAPK8	P2RY1	TGFBR1	CD28	SMAD4	IL1R1			
## 1	0	1	0	1	0	1	1	1	1	1	1	1		
## 2	0	1	0	1	0	0	0	1	0	1	1	1		
## 3	0	1	0	1	0	0	0	0	0	1	1	1		
## 4	0	1	0	1	0	0	1	1	1	1	1	1		
## 5	1	1	0	1	0	1	1	1	1	1	1	1		
## 6	0	1	0	1	0	0	1	1	1	1	1	1		
##	MAP3K2	LDLR	CLEC3B	NOTCH4	RAP1A	TSPAN4	LINGO1	TNFRSF9	RABAC1	CALM1	DIAPH1			
## 1	1	0	1	1	1	1	0	1	1	1	1	1		
## 2	0	0	0	0	0	1	0	1	1	1	1	0		

## 3	0	1	0	1	1	1	0	1	1	0	0			
## 4	1	0	0	1	1	1	0	1	1	1	1			
## 5	1	0	0	1	1	1	0	1	1	1	1			
## 6	1	1	0	1	1	1	0	1	0	1	1			
##	ATN1	ZBTB17	ATXN3	DNM2	NLRC4	HK2	ANK1	NEK2	CRIP2	GNAI1	NONO	CCL5	JAG2	ALK
## 1	1	0	0	0	1	0	1	0	1	1	0	0	0	1
## 2	1	0	0	0	1	0	0	0	0	1	0	0	0	0
## 3	0	0	0	0	0	0	1	0	0	1	0	0	0	0
## 4	1	0	0	0	1	0	0	0	0	1	0	0	0	0
## 5	1	0	0	0	1	0	0	0	1	1	0	0	0	0
## 6	1	0	0	0	1	0	0	0	0	1	0	0	0	0
##	HDAC6	EEF1G	RPS10	NEUROD1	GRAP2	FURIN	HNRNP	ARF1	SH2D2A	SNRPD3	RBP1	LCK		
## 1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
## 2	1	1	0	0	1	1	0	0	0	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	1	1	1	0	0	0	0	0	0	0	0
## 5	1	1	1	1	1	1	0	0	0	0	0	0	0	0
## 6	0	1	1	0	1	1	0	0	0	0	0	0	0	0
##	NUDT21	ACTB	CCDC33	GAK	NFE2L2	CBY2	CCDC136	HLA-C	RPL11	SPTBN4	OGG1	SEPTIN5		
## 1	0	0	0	0	0	0	0	1	0	0	1	0		
## 2	0	0	0	0	0	0	0	1	0	0	1	0		
## 3	0	0	0	0	0	0	0	1	0	0	1	0		
## 4	0	0	0	0	1	0	0	1	0	0	1	0		
## 5	0	0	0	0	1	0	0	1	0	0	1	0		
## 6	0	0	0	0	1	0	0	1	0	0	1	0		
##	FGF1	CASP9	SNX4	CCND3	SNRPD1	SNRPD2	PBX3	VIM	HTR2A	DTNB	APCS	ACVR1B	ASGR2	
## 1	1	0	0	0	1	0	1	0	1	1	0	0	1	
## 2	1	0	0	0	1	0	1	0	1	1	0	0	0	
## 3	1	0	0	0	1	0	0	0	0	1	0	0	0	
## 4	1	0	0	0	1	0	1	0	1	1	0	0	0	
## 5	1	0	0	0	1	0	1	0	1	1	0	0	1	
## 6	1	0	0	0	1	0	1	0	1	1	0	0	0	
##	CAPN2	PTN	EPHA8	PHOX2A	HDAC2	PKD1	LRIF1	IFRD1	RTKN	AHSA1	EZR	E2F1	RBM4	LUC7L2
## 1	0	0	0	0	0	0	0	1	0	1	1	0	1	1
## 2	0	0	0	0	0	0	0	1	0	1	1	0	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	1
## 4	1	0	1	1	0	0	0	1	0	0	1	0	1	1
## 5	1	0	1	0	0	0	0	1	0	1	1	0	1	1
## 6	1	0	0	0	0	0	0	1	0	0	1	0	0	1
##	RPA1	SDC1	TAF1	UBQLN2	SHC1	RCN2	SMURF1	FEZ1	BEGAIN	CNOT7	ADRA2A	RNF126	MYO18B	
## 1	1	1	0	0	1	1	1	1	1	0	0	1	0	
## 2	1	1	1	0	1	1	1	1	1	0	0	1	1	
## 3	1	1	0	0	1	1	1	1	1	0	0	1	0	
## 4	1	1	0	0	1	1	1	1	1	1	0	1	0	
## 5	1	1	1	0	1	1	1	1	1	1	1	1	1	
## 6	1	1	0	0	1	1	1	1	1	0	0	1	0	
##	RACK1	MYH9	FTL	ABL1	C1orf216	YWHA	TNFSF11	NTRK1	YWHAH	SNRPD3	BLM	HTR1F	NFYA	
## 1	1	1	1	1	1	0	1	0	1	1	0	1	0	
## 2	1	1	1	1	1	0	1	0	1	1	1	0	0	
## 3	1	0	1	1	0	0	0	0	0	0	0	1	0	
## 4	1	1	1	1	1	0	1	0	1	1	0	1	0	
## 5	1	1	1	1	1	0	1	0	1	1	0	1	0	
## 6	1	1	1	1	0	0	1	0	0	1	0	1	0	
##	MED31	OTX1	SDC3	TRHR	PIK3CA	SDC2	PRKCA	EEF1A1	PSAP	RNF11	ACTR3	SKAP1	HOOK1	

## 1	1	1	1	0	0	0	0	1	0	1	0	1	1	
## 2	0	1	1	0	0	0	0	1	0	1	0	1	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	
## 4	1	0	1	0	0	0	0	1	0	1	1	1	1	
## 5	0	1	1	0	0	0	0	1	0	1	0	1	1	
## 6	1	0	1	0	0	0	0	1	0	1	0	1	1	
##	ESRRA	REL	RTKN	GOPC	GSTM4	PKN2	PKN2	ZAP70	SSTR2	TG	CD19	APOA1	INTS11	TP53
## 1	1	0	0	0	0	0	1	0	0	0	0	1	1	0
## 2	0	0	0	0	0	1	1	0	0	0	0	1	1	0
## 3	0	0	0	0	0	0	1	0	0	0	0	1	1	0
## 4	0	0	1	0	0	1	1	0	0	0	0	1	1	0
## 5	0	0	1	0	0	1	1	0	0	0	0	1	1	0
## 6	0	0	1	0	0	0	1	0	0	0	0	1	1	0
##	ABCF3	CREBBP	RB1	ADORA2A	WDR33	F2	CDK5R1	ARPC1B	LIPE	ZMYM2	DLG4	RELA	EGFR	
## 1	1	1	1	1	1	0	0	1	0	0	1	0	0	
## 2	1	1	1	1	1	0	0	1	0	0	0	0	1	
## 3	1	1	0	0	1	0	0	1	0	0	0	0	0	
## 4	1	1	1	1	1	0	0	1	1	1	1	0	0	
## 5	1	1	1	1	1	0	0	1	1	1	1	0	1	
## 6	1	1	0	1	1	0	0	1	0	0	1	0	0	
##	NR3C1	TNFSF11	LYN	YWHAG	SNTB2	PIK3R1	MED31	WASH2P	HNRNPK	PRKG1	H3-4	MEAF6		
## 1	0	0	0	1	0	0	0	1	0	0	1	1		
## 2	0	0	0	0	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	0	0	1	0	0	0	1	0	0	0	0		
## 5	1	0	0	1	0	0	0	1	0	0	0	0		
## 6	0	0	0	1	0	0	0	1	0	0	0	0		
##	GMEB1	UPF2	PIAS1	ERBB2	FOS	SYT4	JAK1	NIF3L1	RBBP4	MYC	ESR1	PRKG1	COL4A1	TH
## 1	0	1	0	0	0	0	0	0	1	0	1	1	0	0
## 2	0	1	0	0	0	0	0	0	1	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	1	0	0	0	0	0
## 4	0	1	0	0	0	1	0	0	1	0	1	1	0	0
## 5	0	1	0	0	0	1	0	1	1	0	0	1	1	0
## 6	0	0	0	0	0	1	0	0	1	0	0	0	1	0
##	AQP1	C8orf33	SDC2	EIF6	PCNA	EPB41	FHL5	ASIP	MET	JAK1	KRTAP4-12	ATXN1	SOX10	
## 1	0	0	0	0	0	1	0	0	1	0	0	1	1	
## 2	0	0	0	0	0	1	0	0	1	0	0	1	0	
## 3	0	0	0	0	0	1	0	0	1	0	0	1	0	
## 4	0	0	0	0	0	1	0	0	1	0	0	1	1	
## 5	0	0	0	0	1	1	0	0	1	0	0	1	1	
## 6	0	0	0	0	0	1	0	0	1	0	0	0	0	
##	PLSCR1	YWHAB	SMAD9	NID1	MAP3K4	ARRB2	DNMT1	NR3C1	ITGB2	HNRNPM	PELI3	NA	TP53	
## 1	0	0	1	0	0	1	1	1	1	0	1	1	1	
## 2	0	0	1	0	0	1	1	0	0	0	1	1	1	
## 3	0	0	1	0	0	1	1	1	1	0	1	0	1	
## 4	0	0	1	0	0	1	1	1	1	0	1	1	1	
## 5	0	0	1	0	0	1	1	1	1	0	1	1	1	
## 6	0	0	1	0	0	1	1	1	1	0	1	1	1	
##	MSN	PRKCB	BTG2	CCDC113	ARMCX3	PIAS4	PCM1	EEF1A1	YWHAZ	TOM1L1	MATR3	CHRM2		
## 1	1	0	1	1	1	0	0	1	0	0	1	1		
## 2	0	0	0	1	1	0	0	0	0	0	1	1		
## 3	0	0	0	1	1	0	0	0	0	0	0	1		
## 4	0	0	1	1	1	0	0	1	0	0	1	1		
## 5	0	0	1	1	1	0	1	1	0	0	1	1		

## 6	0	0	0	1	1	0	0	1	0	0	1	1		
##	ARFIP2	ID2	PABPN1	YWHAB	LCK	AXIN1	AQP1	AP2B1	SRF	ACTG1	CASP9	KLRC4	KIF5B	SMN1
## 1	1	1	0	1	1	1	0	1	1	0	1	0	1	1
## 2	1	1	0	1	0	0	0	1	1	0	1	0	1	1
## 3	1	1	0	0	0	0	0	1	0	0	1	0	0	0
## 4	1	1	0	0	0	1	0	1	1	0	1	0	1	1
## 5	0	1	0	0	0	1	0	1	1	0	1	0	1	0
## 6	1	1	0	1	0	0	0	1	1	0	1	0	1	0
##	ICAM4	LAT	HDAC1	TAF6	H1-1	FOXO1	FCHO1	PSEN1	EPHA8	SMAD2	CXCL8	UBTF	BMX	IL1RAP
## 1	1	1	0	0	0	0	0	0	0	1	0	1	0	0
## 2	1	1	0	0	0	0	0	1	0	1	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 4	1	1	0	0	0	0	0	1	0	1	0	1	0	0
## 5	1	1	0	0	0	0	0	0	0	1	1	1	0	0
## 6	1	1	0	0	0	0	0	0	0	1	0	1	0	0
##	CREM	RTN4	RBBP4	PRPH	TRAF2	PRLR	NFATC1	ITGA2	PTBP1	TUBG2	SRC	ATF1	CCDC85B	
## 1	0	0	0	0	1	0	1	1	0	1	0	1	1	
## 2	0	0	0	0	0	0	0	1	0	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	1	0	0	0	1	0	
## 5	0	0	0	0	0	0	0	1	0	0	0	1	0	
## 6	0	0	0	0	0	0	0	1	0	0	0	0	0	
##	CDC42	JUN	PRKCD	RPLP1	RDX	RAC1	RAB27A	CHEK1	ATF2	MYO7A	DTX2	SYTL1	RAB5A	RAC1
## 1	1	0	1	0	1	0	0	0	0	1	1	0	0	0
## 2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	1	0	1	0	1	0	0	0	0	0	0	0
## 6	0	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MYO1D	ZNF512B	TSC22D1	ITGB7	BTRC	VRK3	RHOA	USHBP1	CDK5R2	DOK2	KCNK15	DCAF7	AR	
## 1	1	1	0	1	1	0	0	0	0	1	0	1	0	
## 2	1	0	0	1	1	0	0	0	0	1	0	1	0	
## 3	1	0	0	0	0	0	0	0	0	1	0	1	0	
## 4	1	0	0	1	1	0	0	0	0	1	0	1	0	
## 5	1	0	0	1	1	0	0	0	0	1	0	1	0	
## 6	1	0	0	1	1	0	0	0	0	1	0	1	0	
##	RB1	BECN1	BCAN	PSMD11	PELP1	MRGBP	LACRT	CEP70	PTPN4	VLDLR	SP1	ITGB2	RFC2	
## 1	0	1	0	1	1	0	0	1	1	0	0	0	1	
## 2	0	0	0	1	1	0	0	0	0	0	0	0	0	
## 3	0	0	0	1	1	0	0	0	0	0	0	0	0	
## 4	0	1	0	1	1	0	0	0	0	0	0	0	1	
## 5	0	1	0	1	1	0	0	0	0	0	0	1	1	
## 6	0	0	0	1	1	0	0	0	0	0	0	0	0	
##	TRPC5	ATXN2	EPRS1	MAD2L1	HABP2	PSMA3	PLCB3	ACTN1	HNF1A	TNFRSF1B	NOTCH1	VIM		
## 1	1	0	0	1	1	0	0	1	0	1	0	1		
## 2	1	1	0	1	1	0	0	0	0	1	0	1		
## 3	1	0	0	1	1	0	0	0	0	1	0	1		
## 4	1	0	0	1	1	1	0	0	0	1	0	1		
## 5	1	0	0	1	1	0	0	1	0	1	0	1		
## 6	1	0	0	1	1	0	0	0	0	1	0	1		
##	AHR	ATF7IP	CD38	YLP1	TRPC3	PARD3	RIPK1	PARP1	MAD1L1	SP1	NPDC1	LFNG	MUC1	
## 1	0	0	0	1	0	0	1	0	0	0	0	0	1	
## 2	0	0	0	1	0	0	1	1	0	0	0	0	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	1	

## 4	0	0	0	0	0	0	1	1	0	1	0	1	1
## 5	0	0	0	0	0	0	1	1	0	1	0	0	1
## 6	0	0	0	0	0	0	1	1	0	0	0	0	0
##	ZNF346	ZBTB16	SORBS1	FOS	EIF2B2	OPRM1	PRKCG	MME	YWHAG	F8	FN1	CSNK2A1	FOXO1
## 1	1	0	1	1	1	1	0	0	1	1	1	1	0
## 2	1	0	1	0	0	1	0	0	1	1	0	1	0
## 3	0	1	1	1	0	0	0	0	1	1	0	1	0
## 4	1	0	1	1	1	0	0	0	1	1	0	1	0
## 5	1	1	1	1	1	0	0	0	1	1	0	1	0
## 6	1	0	0	1	0	0	0	0	1	1	0	1	0
##	HIPK3	TK1	TUBB	MYO6	COL4A5	CEP126	VCPIP1	CRELD1	DSN1	PEX5	GABBR2	GRB2	CD22
## 1	0	0	1	0	1	1	1	1	1	1	0	0	0
## 2	0	0	0	0	1	1	1	1	1	1	0	0	0
## 3	1	0	1	0	1	0	1	1	1	1	0	0	0
## 4	1	1	1	0	1	1	1	1	1	1	0	0	1
## 5	1	1	1	0	1	1	1	1	1	1	0	0	1
## 6	1	1	1	0	1	0	1	1	1	1	0	0	0
##	BAX	ID3	TADA3	SNTA1	PPARD	HGF	NCL	SMAD4	SOS1	EGF	EXOSC2	POLA2	TRAM2
## 1	0	0	0	1	0	0	0	0	0	0	0	0	1
## 2	0	0	0	1	0	0	0	0	0	0	0	1	0
## 3	0	0	0	1	0	0	0	0	0	0	0	0	0
## 4	1	0	0	1	0	0	0	0	0	1	0	1	0
## 5	0	0	0	1	0	0	0	0	0	1	0	1	0
## 6	1	0	0	1	0	0	0	0	0	0	0	0	1
##	BEGAIN	LTBR	SP1	CPE	CXCR4	ERBB2	EIF3J	SOCS3	PDGFRA	NEU3	RET	EGFR	LUC7L2
## 1	1	0	1	0	0	1	1	0	1	0	1	0	0
## 2	0	0	1	0	0	1	1	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	0	0	1	0	0	1	0	0	1	0	1	0	0
## 5	0	0	1	0	0	1	0	0	0	0	0	0	0
## 6	0	0	1	0	0	1	0	0	0	0	0	0	0
##	BMPR1B	ACVR1	PTPRF	MAP1B	SHC1	FGR	EFEMP1	EPB41L1	ATXN2	CREBBP	MUC1	TEC	EZR
## 1	1	0	0	1	0	1	0	0	1	1	0	0	0
## 2	0	0	0	1	0	1	0	1	1	1	0	0	0
## 3	0	0	0	0	0	1	0	0	1	1	0	0	0
## 4	1	0	0	1	0	1	0	1	1	1	0	0	0
## 5	1	0	0	1	0	1	0	1	1	1	0	0	0
## 6	1	0	0	0	0	1	0	0	1	1	0	0	0
##	TAL1	LDLR	PLSCR1	GSK3B	CDK1	IRAK2	EIF2B5	YWHAB	MMP9	TAF4	SP100	NFYA	LTBR
## 1	1	0	1	0	1	1	0	1	1	0	1	1	0
## 2	0	0	0	1	1	1	0	1	1	0	1	1	0
## 3	0	0	0	0	1	0	0	0	1	0	1	1	0
## 4	0	0	0	1	1	1	0	1	1	0	1	1	0
## 5	0	0	0	1	1	1	0	1	1	0	1	1	0
## 6	0	0	0	1	1	1	0	1	1	1	1	1	0
##	LYN	SOCS3	RG2	TUBA4A	DNM2	SREBF1	VDR	TUBA1A	MAPRE2	DLG1	APCS	NAP1L5	ESR1
## 1	1	0	1	1	0	0	0	1	1	1	0	0	1
## 2	1	0	1	1	0	0	0	1	1	1	0	0	0
## 3	1	0	1	1	0	0	0	1	1	1	0	0	0
## 4	1	0	1	1	0	0	0	1	1	1	0	0	0
## 5	1	0	1	1	1	0	0	1	1	1	0	0	0
## 6	1	0	1	1	0	0	0	1	1	1	0	0	0
##	CRHR2	HDAC11	CRK	MAP3K11	HAP1	KDR	IGF1R	SMAD6	AFAP1	TP73	TGFB1	PTPN6	DCAF6
## 1	1	0	1	0	0	1	0	0	1	0	0	0	0

## 2	1	0	1	0	0	1	0	0	0	0	0	1	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0	
## 4	0	0	1	0	0	1	0	0	0	0	0	0	0	
## 5	0	0	1	0	0	1	0	0	0	1	0	0	0	
## 6	0	0	1	0	0	1	0	0	0	0	0	0	0	
##	DPY30	DSP	CRB3	ARHGAP5	F2	HTR1B	CDT1	CASP3	PRKCA	PTPN11	NOS1AP	COIL	RB1	SNTA1
## 1	1	1	1	0	1	1	1	0	1	0	0	0	0	0
## 2	0	0	1	0	1	1	1	0	1	0	0	0	0	0
## 3	0	0	0	0	1	1	0	0	0	0	0	0	0	0
## 4	0	0	1	0	1	1	1	0	1	0	0	0	0	0
## 5	0	1	1	0	1	1	1	0	1	0	0	0	0	0
## 6	0	0	1	0	1	1	1	0	1	0	0	0	0	0
##	YWHAQ	ARF6	PAK2	TGFB1	PIK3R1	THRA	PIAS4	RTN4IP1	TACR3	CRMP1	ASCC2	DAXX	CCNB2	
## 1	1	0	0	0	0	1	1	0	1	1	0	0	1	
## 2	0	0	0	0	0	1	1	0	1	1	0	0	1	
## 3	0	0	0	0	0	1	1	0	1	1	0	0	0	
## 4	1	0	0	0	0	1	1	0	1	1	0	0	1	
## 5	0	0	0	0	0	1	1	0	1	1	0	0	1	
## 6	0	0	0	0	0	1	1	0	1	1	0	0	1	
##	MAGI1	TYK2	C1QB	ITSN1	CSF2RA	TLE1	A2M	HCK	NR3C1	IFI16	CAMK2A	NEFL	SNRPD1	
## 1	1	0	0	1	0	1	1	0	0	1	1	1	0	
## 2	1	0	0	1	0	0	1	0	0	0	1	0	0	
## 3	0	0	0	1	0	0	1	0	0	0	1	0	0	
## 4	1	0	1	1	0	0	1	0	0	0	1	0	0	
## 5	1	0	1	1	0	0	1	0	0	0	1	0	0	
## 6	1	0	0	1	0	0	1	0	0	0	1	0	0	
##	KLHL23	MMP2	DVL3	SRC	TFG	FYN	BBS10	SNAP25	YWHAH	MAPK1	YWHAH	STXBP1	EP300	RNF4
## 1	1	0	0	0	0	0	0	0	0	1	1	0	0	0
## 2	0	0	0	0	0	0	0	0	0	1	1	0	0	0
## 3	1	0	0	0	0	0	0	0	0	1	1	0	0	0
## 4	1	0	1	0	0	0	0	0	0	1	1	1	0	0
## 5	0	0	0	0	0	0	0	0	0	1	1	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	NFKBIA	GSK3B	APEX1	PTPRA	PPL	RAF1	ATXN1L	SIAH1	MAP3K3	RASA1	ERG28	GOT2	TFCP2	
## 1	0	1	0	1	0	0	0	0	0	0	1	1	1	0
## 2	0	1	0	1	0	0	0	0	0	0	0	0	1	0
## 3	0	1	0	1	0	0	0	0	0	0	0	0	1	0
## 4	0	1	0	1	0	0	0	0	0	1	0	1	1	0
## 5	0	1	1	1	0	0	0	0	0	0	1	0	1	0
## 6	0	1	0	1	0	0	0	0	0	0	0	1	1	0
##	FGFR4	GDF9	TRIP6	CASP8	VAV1	PRPF40A	GCSH	ASCC2	FGFR2	SMN1	FBXO2	ADRA2C	NCOA1	
## 1	1	1	0	1	1	0	0	1	0	0	1	1	1	1
## 2	1	1	0	1	1	0	1	1	0	0	0	0	1	1
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	0	1	1	0	0	1	0	0	1	0	1	1
## 5	1	1	0	1	1	0	1	1	0	0	1	0	1	1
## 6	1	1	0	1	1	0	0	1	0	0	0	0	0	1
##	YWHAQ	TP53	MAGEH1	MKRN1	NRIP1	COIL	CREBBP	FCGR3A	GRK2	XIAP	PTPN11	GNAI2	CCS	
## 1	1	1	0	0	1	1	1	0	1	1	1	1	1	1
## 2	1	1	0	0	1	0	1	0	1	1	1	1	1	0
## 3	1	1	0	0	1	0	1	0	1	0	1	1	1	0
## 4	1	1	0	0	1	0	1	0	1	1	1	1	1	0
## 5	1	1	0	0	1	0	1	0	1	1	1	1	1	0
## 6	1	1	0	0	1	0	1	0	1	1	1	1	1	0

##	MST1R	SMC1A	MCF2	CREBBP	OSGEP	MAPK14	DLG4	ALDH2	MAPK6	SOCS7	ACTN2	NME2	SGTA	
## 1	1	0	1	1	0	1	0	1	0	1	1	1	1	
## 2	0	0	0	1	0	1	0	1	0	1	1	0	0	
## 3	0	0	0	1	0	1	0	1	0	1	1	0	0	
## 4	0	0	0	1	0	1	0	1	0	1	1	1	0	
## 5	0	0	0	1	0	1	0	0	0	1	1	1	0	
## 6	0	0	1	1	0	1	0	1	0	1	1	1	0	
##	TNFRSF14	TRIM32	FASLG	CD9	CCDC85B	MBD1	SLC9A3R2	RBM1A1	VEGFA	CSNK2A2	FHOD1			
## 1	0	0	1	1	1	1	1	1	0	1	1			
## 2	0	0	1	1	1	0	1	0	0	1	0			
## 3	0	0	1	1	1	0	1	0	0	1	0			
## 4	0	0	1	1	1	0	1	1	0	1	1			
## 5	0	0	1	1	1	1	1	0	0	1	0			
## 6	0	0	1	1	0	0	0	0	0	1	0			
##	ACP1	PLK1	LAT	HNRNPA1	DCTN2	GHR	DRD1	NAP1L4	DDX39B	TNNI3	CHGB	CHMP4B	SRPK1	
## 1	1	1	1	0	0	1	0	0	0	0	0	0	1	
## 2	1	1	0	0	0	0	0	0	0	0	0	0	1	
## 3	1	1	0	0	0	0	0	0	0	0	0	0	1	
## 4	1	1	1	0	0	0	0	0	0	0	0	0	1	
## 5	1	1	0	0	0	0	0	0	0	0	0	0	1	
## 6	1	1	0	0	0	0	0	0	0	0	0	0	1	
##	SPP1	CRMP1	YWHAG	MCM7	PSEN1	PSEN1	RAB17	DOCK3	ELOB	GPBP1	F12	GRIN2D	PDPK1	BSG
## 1	0	1	1	0	1	1	0	1	0	1	1	0	1	1
## 2	0	1	1	0	1	1	0	1	0	1	0	0	0	1
## 3	0	0	0	0	1	1	0	1	0	0	0	0	0	0
## 4	0	1	1	0	1	1	0	1	0	1	0	1	1	1
## 5	0	1	1	0	1	1	0	1	0	1	1	1	1	1
## 6	0	0	1	0	1	1	0	1	0	1	1	1	1	0
##	FCGR3A	PTPRO	ESR1	PDLIM7	SLC2A1	GNA13	SLC39A7	SMAD9	ZBTB16	CXCL8	NA	NECTIN2		
## 1	0	1	1	1	0	1	1	0	1	1	1	0		
## 2	0	0	1	0	0	0	0	0	1	1	1	0		
## 3	0	0	1	1	0	0	1	0	0	1	0	0		
## 4	1	0	1	1	0	0	1	0	1	1	1	0		
## 5	1	1	1	1	0	0	0	0	1	0	1	1		
## 6	1	1	1	1	0	0	0	0	1	0	1	0		
##	POLR2K	ADRB2	TNFRSF12A	DNM2	GLUD1	ITGA7	RFX3	SLC9A5	EP300	SIX5	SMAD9	KCNJ1		
## 1	1	0	0	1	1	0	0	0	0	1	0	0		
## 2	1	0	0	1	0	1	0	0	0	0	0	0		
## 3	1	0	0	1	0	0	0	0	0	0	0	0		
## 4	1	0	0	1	0	0	0	0	0	1	0	0		
## 5	1	0	0	1	1	0	0	0	0	1	0	0		
## 6	1	0	0	0	0	0	0	0	0	0	0	0		
##	HDAC3	SH3BP2	XRCC6	CMTM3	ITSN1	LSM11	PRKACA	RB1	RHOG	ULK2	GRB2	AGAP2	IFNAR2	
## 1	1	1	1	0	1	0	1	1	0	1	0	0	1	
## 2	0	1	1	0	1	0	0	0	0	1	0	0	0	
## 3	0	1	1	0	1	0	1	0	0	1	0	0	0	
## 4	1	1	1	0	1	1	1	1	0	1	0	0	0	
## 5	1	1	1	0	1	1	1	1	0	1	0	0	0	
## 6	1	1	1	0	1	0	1	0	0	1	0	0	0	
##	HTR6	APLP1	CDH1	SMAD9	PDGFA	CCNE1	PLXNA3	SF3B1	GRB7	MAGEA11	PSMC6	EXOSC10		
## 1	0	1	1	0	0	0	0	1	0	1	1	1		
## 2	0	0	0	0	0	0	0	1	0	1	1	1		
## 3	0	0	0	0	0	0	0	1	0	1	1	0		
## 4	0	1	1	1	0	0	0	1	0	1	1	1		

## 5	0	1	0	1	0	1	0	1	0	1	1	1		
## 6	0	1	0	0	0	0	0	1	0	1	1	1		
##	TADA3	PCSK6	ELK1	SMAD7	PTK2	TP11	NRXN3	KLHL5	ZNF439	EP300	L1CAM	AR	UTP6	YWHAZ
## 1	0	0	1	0	1	1	1	0	1	0	1	0	0	1
## 2	0	1	1	0	1	1	1	0	1	0	1	1	0	0
## 3	0	0	1	0	1	1	1	0	0	0	1	1	0	0
## 4	0	0	1	0	1	1	1	0	0	0	1	1	1	1
## 5	0	0	0	0	1	1	1	0	1	0	1	1	1	1
## 6	0	0	0	0	1	1	1	0	0	0	1	1	0	0
##	IGHM	IL17RB	RUNX1T1	TAF1	EGFR	WVP2	NLGN2	PLXNB1	EGFR	UBB	CTSL	MOAP1	HOXD10	
## 1	0	1	0	0	1	1	1	0	1	1	0	0	0	
## 2	0	1	0	0	1	1	1	0	1	0	0	0	0	
## 3	0	0	0	0	1	1	1	0	0	1	0	0	0	
## 4	0	1	1	0	1	1	1	0	1	1	0	0	0	
## 5	0	1	0	0	1	1	1	0	1	0	0	0	0	
## 6	0	1	1	0	1	1	1	0	1	0	0	0	0	
##	TGFB1I1	STAT2	SUMO2	CD9	HABP4	ZAP70	HNF1A	FGF2	APPL1	MAGED1	PALS2	UNC119		
## 1	0	1	0	1	1	0	0	1	0	0	0	1		
## 2	0	1	0	1	0	0	0	1	0	0	0	1		
## 3	0	1	0	1	0	0	0	0	0	0	0	1		
## 4	0	1	0	1	1	0	0	1	0	0	0	1		
## 5	0	1	0	1	0	0	0	1	0	0	0	1		
## 6	0	1	0	1	0	0	0	1	0	0	0	1		
##	NDUFS6	EEF1G	XP06	GSK3B	NCK2	TP53	RFX6	MRPL4	TUBG1	EGFR	FGFR4	RNF11	CALR	
## 1	0	1	0	0	1	0	1	0	0	0	0	0	1	
## 2	0	1	0	0	0	0	1	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 4	0	1	0	0	1	1	1	0	0	0	0	0	0	
## 5	0	1	0	0	1	0	1	0	0	0	0	0	1	
## 6	0	1	0	0	1	0	1	0	0	0	0	0	1	
##	IKBKB	CD19	EFNB1	BCAP31	RBM48	TBC1D1	ASB2	PAM16	AKT1	PLCG2	ITCH	HCK	STAT5A	
## 1	1	1	0	0	1	1	0	0	1	0	1	1	1	
## 2	1	0	0	0	0	1	0	0	0	0	1	1	0	
## 3	1	0	0	0	0	0	0	0	0	0	1	1	0	
## 4	1	0	0	0	1	1	0	0	0	1	1	1	1	
## 5	1	0	0	0	0	1	0	0	0	1	1	1	1	
## 6	1	0	0	0	0	0	0	0	0	1	1	1	0	
##	NFYC	CALM2	MTA2	EXOSC6	NUDT3	FASLG	RRAS	CREBBP	DAZAP2	WIPF1	SNRPD1	SDC2	TOP1	
## 1	0	0	0	0	0	1	0	1	1	1	0	1	0	
## 2	0	0	0	0	0	0	0	0	1	1	0	0	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	1	0	1	1	1	0	1	0	
## 5	0	0	1	0	0	1	0	1	1	1	0	1	0	
## 6	0	0	0	0	0	1	0	1	1	1	0	1	0	
##	NCDN	ATR	YY1	PPFIBP1	TUB	PTPN6	RUNX3	ATXN2	GFI1B	SUPT5H	H3-4	CDC25C	IRF3	
## 1	1	1	0	0	1	1	1	0	0	1	1	0	1	
## 2	1	1	0	0	1	1	1	0	0	0	1	0	1	
## 3	0	1	0	0	0	1	0	0	0	0	0	0	1	
## 4	1	1	0	0	0	1	1	0	0	1	1	0	1	
## 5	1	1	0	0	0	1	1	0	0	1	1	0	1	
## 6	0	1	0	0	0	1	1	0	0	1	1	0	1	
##	PPP2R3A	COPS6	GRB2	KXD1	HCK	ADRB3	RAC1	APOA1	EEF1A1	SRGN	OBSCN	PRKCA	IMMT	
## 1	1	0	0	0	1	0	1	1	1	0	1	1	1	
## 2	1	0	0	0	1	0	1	1	1	0	0	0	1	

## 3	1	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	1	0	0	0	1	0	1	1	1	0	1	0	1	
## 5	1	0	0	0	1	0	1	1	1	0	1	0	1	
## 6	1	0	0	0	1	0	0	1	1	0	1	0	1	
##	WASF2	DNAJA3	BMPR1A	TRAF2	CCNT1	CDK1	SMURF2	CCNT1	SON	F2RL1	SOCS1	SH3GL3	TDG	
## 1	1	1	0	0	0	0	1	0	0	0	1	1	1	
## 2	1	1	0	0	0	0	1	0	0	0	1	1	0	
## 3	1	1	0	0	0	0	0	0	0	0	1	0	0	
## 4	1	1	0	0	0	0	1	0	0	0	1	1	1	
## 5	1	1	0	0	0	0	1	0	0	0	1	1	1	
## 6	1	1	0	0	0	0	1	0	0	0	1	1	1	
##	CHEK1	PTPN1	NAGK	TAF10	AR	PSMC1	MESD	UTP14A	PRKCQ	NEDD4L	SYK	APOE	STAT5B	EZR
## 1	0	0	0	0	1	0	1	0	1	0	0	0	1	0
## 2	1	0	1	0	1	0	1	0	1	0	0	0	0	0
## 3	0	0	1	0	1	0	1	0	1	0	0	0	0	0
## 4	0	0	1	1	1	0	1	1	1	0	0	0	1	0
## 5	1	0	1	1	1	0	1	0	1	0	0	0	0	0
## 6	0	0	1	0	1	0	1	0	1	0	0	0	0	0
##	LNK1	RTN4	EGFR	CD44	HSPA8	APOA1	CNKSR2	STAT6	SDC2	SRGAP2	SEC61B	CDH1	TP53	
## 1	1	0	0	1	0	0	0	1	1	1	1	1	1	
## 2	1	0	0	1	0	0	0	1	1	1	0	1	1	
## 3	1	0	0	0	0	0	0	1	0	1	0	1	0	
## 4	1	0	0	1	0	0	0	1	1	1	0	1	1	
## 5	1	0	0	0	0	0	0	1	1	1	0	1	1	
## 6	1	1	0	0	0	0	0	1	0	1	0	1	1	
##	VDAC2	H2AZ1	NELL2	TBXA2R	SMN1	PRKCA	MAP3K7	TNNI2	ACVRL1	NR1H2	RUNX1T1	CSNK2A2		
## 1	1	0	1	0	1	1	1	1	1	1	0	1	1	
## 2	1	0	1	0	1	1	1	1	1	1	0	0	1	
## 3	0	0	1	0	1	1	1	1	1	1	0	0	1	
## 4	1	0	1	1	1	1	1	1	1	1	0	0	1	
## 5	1	0	1	0	1	1	1	1	1	1	0	0	1	
## 6	0	0	1	0	1	1	1	1	1	0	0	0	1	
##	TICAM2	NA	ADRB2	SHC1	SMAD1	SP1	DAZAP2	NUP214	HDAC1	RAB27A	ACHE	DLGAP2	CCL7	
## 1	1	1	1	0	1	0	1	1	1	1	1	1	0	
## 2	0	1	1	1	0	0	1	1	0	1	1	1	0	
## 3	0	0	1	1	0	0	1	1	0	0	0	1	0	
## 4	0	0	1	1	0	0	1	1	1	1	1	1	0	
## 5	0	1	1	1	1	0	1	1	1	1	0	1	0	
## 6	0	0	1	1	1	0	1	0	0	1	1	1	0	
##	PROS1	KLK1	VIM	DRD1	PTPRS	STX5	STAT1	RAF1	RELA	MYD88	PHPT1	XRCC6	NDUF9	XRCC6
## 1	0	0	1	1	0	0	1	0	1	1	0	0	1	0
## 2	0	0	1	1	0	0	0	0	1	1	0	0	1	0
## 3	0	0	1	1	0	0	0	0	1	1	0	0	1	0
## 4	0	0	1	1	0	0	0	1	1	1	0	0	1	0
## 5	0	0	1	1	0	0	0	0	1	1	1	0	1	0
## 6	0	0	1	1	0	0	0	0	1	0	0	0	1	0
##	RPA1	FGF2	SMAD4	CD99	PTPN6	CASP3	PLCG1	XRN1	CYTH2	SDF4	CRK	CSNK2B	PIAS1	PDCD6
## 1	1	1	1	0	1	0	0	1	1	0	0	1	0	1
## 2	0	1	1	0	1	0	0	1	1	1	0	0	0	1
## 3	0	0	0	0	1	0	0	1	1	0	0	0	0	1
## 4	0	1	1	0	0	0	0	1	1	0	0	0	0	1
## 5	1	0	1	0	0	0	0	1	1	0	0	0	0	1
## 6	0	0	1	0	0	0	0	1	1	0	0	0	0	1
##	COPB1	MAP1A	STAT1	TNFRSF4	PHF1	TFG	JUP	DYNLT3	ATN1	CDK1	DAZAP2	FASLG	UNC13B	

## 1	1	1	0	0	1	0	1	1	1	1	0	0	1
## 2	1	1	0	1	1	0	1	1	1	1	0	0	0
## 3	1	1	0	0	0	0	1	1	1	1	0	0	0
## 4	1	1	0	0	1	0	1	1	1	1	0	0	0
## 5	1	1	0	1	1	0	1	1	1	1	0	0	0
## 6	1	0	0	0	1	0	1	1	1	1	0	0	0
##	CEBPA	BCAP31	PRKAR2B	GADD45A	ARHGAP1	GRIN2B	CCNE1	KIR2DL4	DNAJA3	TLR1	SIVA1		
## 1	1	1	0	0	0	0	1	0	0	1	1		
## 2	0	0	0	0	0	0	1	0	0	1	0		
## 3	0	1	0	0	0	0	1	0	0	1	0		
## 4	1	1	0	0	0	0	1	0	0	1	0		
## 5	1	1	0	0	0	0	1	0	1	1	0		
## 6	0	1	0	0	0	0	1	0	0	1	0		
##	PLSCR1	CDC37	UBE2I	PIP4K2C	FCGR1A	PICK1	SPAG8	CREB3	NUP85	HDAC2	AGTR1	F2	IRS1
## 1	0	1	0	1	1	0	0	1	1	0	0	0	0
## 2	0	1	0	0	0	0	0	1	1	0	0	0	0
## 3	0	1	0	0	0	0	0	1	0	0	0	0	0
## 4	0	1	0	0	0	0	0	1	1	0	0	0	1
## 5	0	1	0	0	1	0	0	1	1	0	0	0	1
## 6	0	1	0	0	0	0	0	1	1	0	0	0	1
##	E2F5	ETS2	PHLDA1	F11R	INPP5D	IRAK1	SNCA	CREBBP	CSAD	CREBBP	RELB	LPAR1	SRF
## 1	0	1	0	0	0	1	0	0	0	0	1	0	1
## 2	0	0	0	0	0	1	0	0	0	0	1	0	1
## 3	0	0	0	0	0	0	0	0	0	0	1	0	1
## 4	0	1	0	0	0	0	0	0	0	0	1	0	1
## 5	0	1	0	0	0	0	0	0	0	0	1	0	1
## 6	0	0	0	0	0	0	0	0	0	0	1	0	1
##	C10orf62	TGFBR1	TFRC	FXR1	ACP5	MAGEA11	ATN1	EIF4EBP1	PSMD9	YWHAG	NPAS2	VCL	
## 1	1	1	1	0	0	1	1	1	1	1	1	0	0
## 2	1	1	1	0	1	1	1	0	0	0	0	0	0
## 3	1	1	1	0	0	1	1	0	1	0	0	0	0
## 4	0	1	1	0	0	1	1	1	1	0	0	0	0
## 5	0	1	1	0	0	1	1	1	1	0	0	0	0
## 6	0	1	1	0	0	1	1	1	1	0	0	0	0
##	MAPK8IP2	FGFR1	XP01	SMAD9	IL6R	EZR	SH3GLB1	PNRC2	KRTAP4-12	EGFR	RET	DRD3	
## 1	1	1	0	0	0	0	0	1	1	0	1	1	
## 2	1	1	0	0	0	0	0	0	0	1	0	1	1
## 3	0	0	0	0	0	0	0	0	0	1	0	0	1
## 4	1	1	0	0	0	0	1	0	0	1	1	0	1
## 5	1	1	0	1	0	0	1	0	0	1	1	1	1
## 6	1	0	0	0	0	0	0	0	0	1	0	0	1
##	EWSR1	CSNK1A1	SUV39H1	STAT3	PRKCA	SRF	MRPL20	VCP	KNG1	PEX14	KNG1	DNPEP	SDF4
## 1	0	0	1	1	0	0	1	1	1	1	1	1	1
## 2	0	0	1	1	0	0	1	1	1	1	0	1	1
## 3	0	0	1	0	0	0	1	1	1	1	0	0	0
## 4	0	0	1	1	0	0	1	1	1	1	0	1	1
## 5	0	0	1	1	0	0	1	1	1	1	0	1	1
## 6	0	0	1	1	0	0	1	1	1	1	0	1	1
##	CAVIN1	ITGB2	MAP3K7	CRKL	SERPINH1	PPP1R14A	RAB13	FURIN	DLG3	FYN	WBP1	WWP1	
## 1	0	0	0	1	1	1	0	1	1	1	1	0	
## 2	0	0	0	0	0	1	0	0	1	1	1	0	
## 3	0	0	0	0	0	1	0	0	1	1	1	0	
## 4	0	1	0	0	1	1	0	0	1	1	1	0	
## 5	0	1	0	0	1	1	0	1	1	1	1	0	

## 6	0	0	0	0	0	1	0	0	0	1	1	0			
##	EP300	CTSB	RAB25	RAB17	APAF1	EP300	EED	CSNK1E	PLSCR1	UTP14A	APEX1	POLA2	DNM2		
## 1	1	0	1	0	1	0	1	0	1	1	1	0	0		
## 2	1	0	1	0	1	0	1	0	1	1	1	0	1		
## 3	0	0	1	0	0	0	1	0	1	0	0	0	0		
## 4	1	0	1	0	1	0	1	0	1	1	1	0	1		
## 5	1	0	1	0	1	1	1	0	1	1	0	0	1		
## 6	1	0	1	0	1	1	1	0	1	1	0	0	0		
##	EIF3H	CRIPT	YWHAG	VIM	CDYL	APP	SHANK2	ID1	RB1	GSK3B	CTNND2	FNBP4	MCM7	APP	ATM
## 1	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0
## 2	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 4	0	0	0	1	0	0	1	0	1	0	0	0	1	0	0
## 5	0	0	0	1	1	0	1	0	1	0	0	0	1	0	0
## 6	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0
##	F2	SMAD7	AKT1	POLDIP2	MAP2K6	GPC1	WDR33	BMP1	CCDC90B	MESD	MYC	CSNK2A1	IL4R		
## 1	1	0	1	0	0	1	1	1	1	1	0	0	0		
## 2	1	0	1	0	1	0	0	1	1	1	0	0	0		
## 3	0	0	1	0	0	0	0	1	1	1	0	0	0		
## 4	1	0	1	0	1	0	1	1	1	1	0	1	0		
## 5	1	0	1	0	1	0	1	1	1	1	0	0	0		
## 6	0	0	1	0	1	0	1	1	1	1	0	0	0		
##	BID	DRD3	NA	STX5	PPP2R3A	FGFR4	CTSB	ADRA1D	AP2A1	ITGB4	ERBB4	CBLB	LNK1	VAV2	
## 1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	
## 2	0	1	0	0	1	1	1	1	1	1	0	0	0	0	
## 3	0	1	0	0	1	0	1	0	1	0	0	0	0	0	
## 4	0	1	0	0	1	1	1	1	1	1	0	0	0	0	
## 5	0	1	0	0	1	1	1	1	1	1	0	0	0	0	
## 6	0	1	0	0	1	1	1	1	1	1	0	0	0	0	
##	PTGES3	HCK	MAPK1	CRHR1	H3-4	PML	ARR3	GRB2	RAD9A	ITGB1	ZAP70	PLXNB1	CPNE6		
## 1	1	1	0	1	1	1	1	0	1	1	0	1	1		
## 2	1	0	0	1	1	1	0	1	1	1	1	1	0		
## 3	1	0	0	1	0	1	0	0	1	1	0	0	1		
## 4	1	1	0	1	1	1	1	1	1	1	1	1	1		
## 5	1	0	0	1	0	1	1	1	1	1	1	0	1		
## 6	1	0	0	1	1	1	1	1	1	1	0	0	1		
##	PIAS1	DLEU1	HADHB	IL6	SERPINF2	C1QA	MTMR9	TNFAIP3	GTF2F2	CD44	STRBP	GAPDH			
## 1	1	0	0	1	0	1	1	1	1	1	1	1			
## 2	1	0	0	0	0	0	0	1	1	1	0	0			
## 3	1	0	0	0	0	0	0	1	1	1	0	0			
## 4	1	0	0	0	0	0	0	1	1	1	0	0			
## 5	1	0	0	0	0	0	0	1	1	1	0	0			
## 6	1	0	0	0	0	0	0	1	1	1	0	0			
##	HMGB1	GAP43	APEX1	CEP126	ORC2	RAC1	LACRT	ABL1	MNT	TRAF2	CSF2RB	DLG4	PPP2R1A		
## 1	0	1	1	1	1	0	1	1	0	0	0	1	0		
## 2	0	0	0	0	1	0	1	1	0	0	0	1	0		
## 3	0	0	0	0	1	0	0	1	0	0	0	1	0		
## 4	0	0	0	0	1	0	1	1	0	0	0	1	0		
## 5	0	0	0	0	1	0	1	1	0	0	0	1	0		
## 6	0	0	0	0	1	0	1	1	0	0	0	1	0		
##	EPHB2	SRC	EID1	YWHAG	VTN	GBP2	JUN	SF3B1	ZHX1	PRPH2	CSF1R	CXCR1	CREBBP	NSD1	
## 1	1	0	0	1	0	0	0	1	0	0	1	1	0	0	
## 2	1	0	0	1	0	0	0	1	0	0	1	1	0	0	
## 3	1	0	0	0	0	0	0	0	0	0	0	1	0	0	

## 4	1	0	0	1	0	0	0	1	0	0	1	1	0	0
## 5	1	0	0	1	0	0	0	1	0	0	1	1	0	0
## 6	1	0	0	1	0	0	0	1	0	0	1	1	0	0
##	DLK1	SKI	FYN	ORC1	SHBG	VDR	VTN	XRCC6	ITGB2	NRCAM	NFKB1	KRT1	EP300	NDUFA4L2
## 1	1	0	0	0	0	1	0	0	0	1	1	0	1	0
## 2	1	0	0	0	0	0	0	0	0	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	1	0
## 4	1	0	0	0	0	1	0	0	0	0	1	0	1	0
## 5	1	0	0	0	0	1	0	0	0	0	1	0	0	0
## 6	1	0	0	0	0	0	0	0	0	0	1	0	1	0
##	CSNK2B	DLG1	NCOA1	MYO5B	TUBA3C	GNA13	SMAD1	DLG4	LUC7L2	VAMP2	APLP1	COPS5		
## 1	0	0	1	1	0	0	1	0	1	0	0	0	1	
## 2	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 4	0	0	1	1	0	0	1	0	0	1	0	0	0	
## 5	0	0	0	1	0	0	1	0	0	1	0	0	0	
## 6	0	0	0	0	0	0	1	0	0	0	0	0	0	
##	EPHA2	SWAP70	GSK3B	MEN1	TMEM132A	LYN	LEPR	LYN	SPI1	PDZD3	PTPRH	TNPO3	PRKCD	
## 1	0	0	1	0	1	0	1	0	1	0	0	1	1	
## 2	0	0	1	0	1	0	1	0	1	0	0	0	0	
## 3	0	0	1	0	0	0	1	0	1	0	0	0	0	
## 4	1	0	1	0	1	0	1	0	1	0	1	1	0	
## 5	0	0	1	0	1	0	1	0	1	0	0	1	0	
## 6	0	0	1	0	1	0	1	0	1	0	1	1	0	
##	PGR	FPR1	GRK6	H1-5	RANBP2	CASP9	IFNLR1	IRS1	JAK3	NR3C1	FSHR	TBCD	WEE1	TSNAX
## 1	0	1	0	1	0	0	0	1	1	0	0	0	1	1
## 2	1	1	0	1	0	0	0	1	1	0	0	0	0	0
## 3	0	0	0	1	0	0	0	0	1	0	0	0	0	0
## 4	0	1	0	1	0	0	0	0	1	0	0	0	1	0
## 5	1	1	0	1	0	0	0	1	1	0	0	0	1	0
## 6	0	1	0	1	0	0	0	1	1	0	0	0	1	0
##	RBX1	PIK3R3	CAV1	ZNF227	CCND1	CDC5L	SYT11	MAFG	CCNB1	E2F1	LYN	ITSN2	GRB2	
## 1	1	1	0	0	0	0	1	1	1	0	1	1	0	
## 2	1	1	0	0	0	0	0	0	1	0	1	1	0	
## 3	0	0	0	0	0	0	0	0	1	0	1	1	0	
## 4	1	1	0	0	0	0	0	0	1	0	1	1	0	
## 5	1	1	0	0	0	0	0	1	1	0	1	1	0	
## 6	0	1	0	0	0	0	0	0	1	0	1	0	0	
##	CKS1B	PRKAR1A	SH3GL2	LDOC1	MAPK1	PTMA	NR3C1	HDAC1	DNAJB1	GNAS	CHUK	PTK2B		
## 1	1	1	0	0	0	0	1	1	0	0	1	0		
## 2	1	1	0	0	0	0	1	1	0	0	1	0		
## 3	0	0	0	0	0	0	0	0	0	0	1	0		
## 4	1	1	0	0	0	0	1	1	0	0	1	0		
## 5	1	1	0	0	0	0	1	1	0	0	1	0		
## 6	1	1	0	0	0	0	1	1	0	0	1	0		
##	ADRA2B	RPS6KA5	RELA	YWHAG	IL2RB	TNPO1	ATXN1	PDGFRB	TTR	F3	SF3B3	RBBP8	LSM4	
## 1	1	0	1	1	1	1	0	0	0	1	0	0	0	
## 2	1	0	1	1	1	1	0	0	0	0	0	0	0	
## 3	1	0	0	1	1	1	0	0	0	0	0	0	0	
## 4	1	0	1	1	1	1	0	0	0	1	1	0	0	
## 5	1	0	1	1	1	1	0	0	0	1	0	0	0	
## 6	0	0	0	1	1	1	0	0	0	0	0	0	0	
##	FYN	RAB1A	KCNK15	F11	MASP1	RHOG	FOS	ACTG1	EGFR	ATG12	ZBTB16	ITGB1BP2	SUMO1	
## 1	0	0	1	1	0	0	0	1	1	1	0	1	1	

## 2	0	0	1	0	0	0	0	0	0	1	0	1	1
## 3	0	0	1	0	0	0	0	0	0	0	0	1	1
## 4	0	0	1	1	0	0	0	1	0	1	0	1	1
## 5	0	0	1	1	0	0	0	1	0	1	0	1	1
## 6	0	0	1	1	1	0	0	0	0	0	0	1	1
##	MAPK9	TAF11	MEST	EGFR	PIK3CA	NECTIN2	DDIT3	TUBB	ATP5MF	HGS	CDKN2A	PCNA	DLG2
## 1	0	1	1	0	1	0	1	0	1	0	1	0	1
## 2	0	1	1	1	1	0	0	0	1	0	1	0	1
## 3	0	1	1	0	0	0	0	0	0	0	1	0	1
## 4	0	1	1	1	1	0	0	0	1	0	1	1	1
## 5	0	1	1	0	1	0	0	0	0	0	1	1	1
## 6	0	1	1	0	0	0	0	0	0	0	1	1	1
##	ATXN1L	GDF5	EPS8	CRADD	ERCC6	OPRM1	MAP2K1	POLA2	GRIN1	ULK2	INSR	CCDC85B	KIF5B
## 1	1	0	1	0	1	1	0	0	0	1	1	1	0
## 2	1	0	1	0	0	1	0	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	1	0	1	0	1	1	0	0	0	1	1	0	0
## 5	1	0	1	1	1	1	0	0	0	1	1	1	0
## 6	1	0	1	0	0	1	0	0	0	0	1	0	0
##	MYOD1	RAB8A	KAT5	DRD4	CASP4	TAF11	LGALS3	STRN	ACTA1	NKX3-1	JAK3	TCF4	DAXX
## 1	0	0	1	1	0	1	0	0	1	1	1	1	1
## 2	0	0	1	1	0	0	0	0	1	1	0	1	0
## 3	0	0	0	0	0	0	0	0	1	1	0	1	0
## 4	0	0	0	1	0	0	0	0	1	1	0	1	0
## 5	0	0	0	1	0	0	0	0	1	1	0	1	0
## 6	0	0	0	0	0	0	0	0	1	1	0	1	0
##	ITGB2	CSK	TYK2	CENPU	PTK2	ZNF446	PTN	THAP7	PRLR	BAG6	TOMM20	CDH5	NFYC
## 1	1	1	1	1	0	1	0	0	1	1	0	1	1
## 2	0	1	0	1	0	0	0	0	0	0	0	0	1
## 3	0	1	0	0	0	0	0	0	0	0	0	0	1
## 4	1	1	0	1	0	0	0	0	0	0	0	0	1
## 5	0	1	0	1	0	0	0	0	0	0	0	0	1
## 6	0	1	0	1	0	0	0	0	0	0	0	0	1
##	MDM2	SYK	CDK5RAP1	NAGK	IFNAR1	MAPK6	DUSP23	PER1	AFF4	TIAM1	SOS1	NRXN1	DDX5
## 1	1	0	1	1	1	0	0	1	0	0	1	1	0
## 2	1	0	0	1	0	0	0	1	0	0	1	1	0
## 3	0	1	1	1	0	0	0	0	0	0	0	1	0
## 4	1	1	1	1	1	0	0	1	0	0	1	1	0
## 5	1	0	0	1	1	0	0	1	0	0	1	1	0
## 6	0	0	0	1	0	0	0	1	0	0	1	1	0
##	SDC3	SMAD1	NCAM1	HTRA1	CDKN2A	RPA1	SF3A2	CBFA2T2	CCDC91	TNFAIP3	RAF1	ATP1A1	
## 1	1	0	1	0	1	1	1	1	0	0	1	1	1
## 2	1	0	1	0	0	1	0	1	0	1	1	1	1
## 3	1	0	1	0	0	0	0	1	0	1	1	1	1
## 4	1	0	1	0	1	1	0	1	0	1	1	1	1
## 5	1	0	1	0	1	1	0	1	0	1	1	1	1
## 6	1	0	1	0	0	0	0	1	0	1	1	1	1
##	PRKCA	LYN	CTNNB1	CDC42	F8	TGFBP1	TGFBP2	TRAT1	HERPUD1	SHANK2	TGFBP1		
## 1	0	1	0	1	1	0	0	0	1	1	0		
## 2	0	1	0	0	0	0	0	0	1	0	0		
## 3	0	1	0	0	0	0	0	0	1	1	0		
## 4	0	1	0	1	1	0	1	0	1	1	0		
## 5	0	1	0	1	1	0	1	0	1	1	0		
## 6	0	1	0	0	0	0	1	0	1	1	0		

##	CALCOCO2	USF1	PPARG	TLE3	DNMT3L	PCNA	SNF8	CD1D	CAMK2A	ARHGDIB	SELL	GDF9	EPOR
## 1	1	0	1	0	0	1	1	0	1	0	0	1	1
## 2	1	0	1	0	0	1	0	0	1	0	0	1	1
## 3	1	0	1	0	0	0	0	0	0	0	0	1	0
## 4	1	0	1	0	0	1	0	0	1	1	0	1	1
## 5	1	0	1	0	0	1	0	0	1	1	0	1	1
## 6	1	0	1	0	0	0	0	0	1	0	0	1	1
##	POLR3F	PTMA	RERE	ST3GAL3	YWHAE	PPP1R14A	FRS2	GDI1	RBBP8	UBQLN4	ATN1	SMAD9	
## 1	0	0	0	0	1	1	1	0	1	1	1	0	
## 2	0	0	0	0	1	1	1	0	0	1	1	0	
## 3	0	0	0	0	0	1	0	0	0	1	1	0	
## 4	0	1	0	0	1	1	1	0	1	1	1	0	
## 5	0	0	0	0	1	1	1	0	1	1	1	0	
## 6	0	1	0	0	1	1	1	0	0	1	1	0	
##	FGFR3	CD5	MYOC	POLA2	NTRK2	FN1	EFEMP2	CAV1	CLSPN	VCP	TNFRSF13B	DAPP1	SNRPD2
## 1	0	0	0	0	0	1	0	0	1	1	0	1	0
## 2	0	0	1	0	0	1	0	0	1	1	0	1	0
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0
## 4	0	0	0	0	0	1	0	0	1	1	0	1	0
## 5	0	0	0	0	0	1	0	0	1	1	0	1	0
## 6	0	0	0	0	0	0	0	0	1	1	0	0	0
##	HDAC1	ROS1	LYN	NECTIN4	DPP4	NFE2L2	NFE2L2	LGALS1	CEP44	NF2	TNFRSF10B	FYN	RARA
## 1	0	0	0	0	1	0	1	1	0	1	1	1	1
## 2	0	0	0	1	0	0	1	1	0	1	1	0	0
## 3	0	1	0	0	0	0	0	1	0	0	1	0	1
## 4	0	1	0	1	0	0	1	1	0	1	1	0	1
## 5	0	0	0	1	0	0	1	1	0	1	1	0	1
## 6	0	0	0	1	0	0	1	0	0	0	1	0	1
##	MBP	MAPK1	MAPK14	PHLDB2	DCP1A	PRKRA	ZSCAN32	MAGEA11	SNRPD1	GTF2H1	EPB41	WWP1	
## 1	0	0	0	0	0	0	0	0	1	1	1	1	
## 2	0	1	1	0	0	0	0	1	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	1	0	1	0	1	1	
## 5	0	0	0	0	0	0	1	0	0	0	1	0	
## 6	0	0	0	0	0	0	0	0	0	0	1	0	
##	NEDD9	PFDN1	CSNK2A1	BUB1	TRPC5	IRAK1	SND1	AHSG	CHFR	PRKCA	COPS4	MCM4	C1QBP
## 1	1	0	0	0	0	1	1	1	0	0	0	0	0
## 2	1	0	0	0	0	0	0	1	0	1	0	0	0
## 3	1	0	0	0	0	0	0	1	0	0	0	0	0
## 4	1	0	0	0	0	1	1	1	0	1	0	0	0
## 5	1	0	0	0	0	1	1	1	0	1	0	0	0
## 6	1	0	0	0	0	1	1	1	0	0	0	0	0
##	SMURF2	RAC1	NGEF	ANXA1	TUBA8	VWF	SLC3A2	A2M	KSR2	MON1A	MAP3K5	PIN1	SLC2A2
## 1	0	0	0	0	1	0	1	1	1	1	0	0	1
## 2	0	0	0	0	1	0	1	0	1	1	0	0	1
## 3	0	0	0	0	1	0	1	0	0	1	0	0	0
## 4	0	0	1	0	1	1	1	1	1	1	0	0	1
## 5	0	0	1	0	1	1	1	1	1	1	0	0	1
## 6	0	0	0	0	1	1	1	1	1	1	0	0	0
##	MAP4K4	GTF2F2	BCL10	EPOR	RHOA	TP53	CRKL	COL18A1	CDK1	MLF1	BCAS2	INSR	AKT1
## 1	0	0	0	1	0	1	1	0	1	1	0	1	0
## 2	0	0	0	1	0	1	1	0	1	1	0	1	0
## 3	0	0	0	1	0	0	1	0	0	1	1	0	0
## 4	0	0	0	1	0	1	1	1	1	1	0	1	0

## 5	0	0	0	1	0	1	1	1	1	1	0	1	0
## 6	0	0	0	1	0	0	1	1	1	1	0	0	0
##	EFEMP2	ARRB1	MMP9	PSMD7	CSNK2A1	DTX2	SHC1	ATP1B1	CHMP4C	STAT1	DSG3	ASAP2	
## 1	0	1	0	1	0	0	0	1	0	0	1	0	
## 2	0	1	0	1	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	0	1	0	1	1	1	1	0	1	0	
## 5	0	1	0	0	0	1	1	1	1	0	1	0	
## 6	0	1	0	0	0	0	0	1	0	0	0	0	
##	SMAD4	LTA	SUMO4	SPARC	ITGA5	PPARG	YWHAZ	XRN2	CCT7	EDNRB	HSPA8	PPP1R17	KAT2B
## 1	0	0	1	0	0	0	0	1	1	1	0	0	0
## 2	0	0	1	0	0	0	0	1	1	1	0	0	0
## 3	0	0	1	0	0	0	0	1	0	1	0	0	0
## 4	0	0	1	0	0	0	0	1	0	1	0	0	0
## 5	0	0	1	0	0	0	0	1	0	1	0	0	0
## 6	0	0	1	0	0	0	0	1	0	1	0	0	0
##	NR2F6	ADM	IPO5	WAS	TGFBR1	VIM	BAX	PIK3R1	SMARCA2	PRKAA2	CASP7	SREBF1	RPS6KA3
## 1	1	0	1	0	0	1	0	1	1	0	1	1	0
## 2	1	0	1	0	0	0	0	1	1	0	1	1	1
## 3	1	0	1	0	0	0	0	1	0	0	0	0	0
## 4	1	0	1	0	0	0	0	1	1	0	1	1	0
## 5	1	0	1	0	0	0	0	1	1	0	1	1	0
## 6	1	0	1	0	0	0	0	1	1	0	1	1	0
##	KRTAP4-12	OPRD1	HK2	NUCB1	STARD13	TIMP3	CHEK2	RGS2	ITGA6	NUDT3	RLIM	MAP1LC3B	
## 1	0	1	1	0	0	1	1	0	0	0	0	0	0
## 2	1	1	1	0	0	1	1	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	0	0	1	1	1	0	0	0	0	0
## 5	0	1	1	0	0	1	1	1	0	0	0	0	0
## 6	0	1	1	0	0	1	1	0	0	0	0	0	0
##	UBQLN4	SKI	VIM	TCF3	ALOX12B	CD99	BCL10	ACTR1A	RIC8A	ACTG1	LSM8	CREBBP	SIX1
## 1	1	0	0	1	0	1	1	1	1	0	1	1	1
## 2	1	0	0	1	0	1	1	1	1	0	1	1	1
## 3	1	0	0	1	0	1	1	0	0	0	0	1	1
## 4	1	0	0	1	0	1	1	1	1	0	1	1	1
## 5	1	0	0	1	0	1	1	1	1	0	1	1	1
## 6	1	0	0	1	0	1	1	1	0	0	1	1	1
##	PAPOLA	RGL1	EPN1	WHRN	RAC1	GRB2	CD19	RAF1	IL1RAP	PTPRS	HLA-DRB3	TEC	WDR73
## 1	0	0	1	1	1	1	1	1	1	1	1	1	1
## 2	0	0	1	1	1	0	1	1	1	1	1	1	1
## 3	0	0	1	1	0	0	1	1	1	1	1	0	1
## 4	0	0	1	1	1	0	1	1	1	1	1	0	1
## 5	0	0	1	1	1	1	1	1	1	1	1	0	1
## 6	0	0	1	1	1	0	1	1	1	1	1	0	1
##	SHC3	MAGI2	KLC1	ZSCAN4	GNAO1	GTF2H1	YWHAZ	LDB1	VCAN	OAT	BTK	GNAI1	SF3A3
## 1	1	0	1	1	1	0	1	1	0	1	0	1	0
## 2	0	0	1	0	1	0	1	0	0	1	0	1	0
## 3	0	0	1	0	1	0	0	0	0	1	0	1	0
## 4	0	0	1	0	1	0	1	0	0	1	0	1	0
## 5	1	0	1	0	1	0	1	1	0	1	0	1	0
## 6	0	0	1	0	1	0	1	0	0	1	0	1	0
##	FCGR3A	SMAD4	TRAF6	ZHX1	ITGB3BP	EGFR	GFI1B	TAF1	IGHM	CALM1	PRKACA	LAMTOR1	
## 1	0	1	1	1	0	1	1	0	0	0	0	0	1
## 2	0	1	1	1	0	0	1	0	0	0	0	0	0

## 3	0	0	0	1	0	1	1	0	0	0	0	0		
## 4	0	1	1	1	0	1	1	0	0	0	0	1		
## 5	0	1	1	1	0	1	1	0	0	0	0	1		
## 6	0	0	1	1	0	1	1	0	0	0	0	0		
##	CCR8	NR3C1	EP300	IKBKB	PRKCZ	NCKIPSD	COL1A1	ETV1	GTF2H1	STAT6	GMFB	PRPF6		
## 1	0	1	1	0	0	1	1	0	1	0	0	1		
## 2	0	1	1	0	0	1	1	0	1	0	0	0		
## 3	0	0	1	0	0	1	1	0	1	0	0	0		
## 4	0	1	1	0	0	1	1	0	1	0	0	1		
## 5	0	1	1	0	0	1	1	0	1	0	0	1		
## 6	0	1	1	0	0	1	1	0	1	0	0	1		
##	CLDN4	XRCC6	AXIN1	MTNR1A	TUBA4A	ENO2	CANX	BTRC	ACACA	CTNNB1	ATN1	SHANK1	TBP	
## 1	1	0	0	1	1	1	0	0	1	1	0	1	1	
## 2	0	0	0	1	0	0	0	0	1	1	0	0	1	
## 3	0	0	0	1	0	0	0	0	0	1	0	0	1	
## 4	1	0	0	1	1	1	0	0	1	1	0	1	1	
## 5	1	1	0	1	1	1	0	0	1	1	0	1	1	
## 6	0	0	0	0	1	1	0	0	1	1	0	0	1	
##	NFATC4	POLA2	PTPN23	TEC	DBF4	EWSR1	ING1	TRIM27	AR	CD19	PTEN	ZNF622	ITGA2	
## 1	1	1	1	1	0	0	1	1	1	1	0	0	0	
## 2	1	1	1	1	0	0	1	1	1	0	0	0	1	
## 3	1	1	0	0	0	0	0	1	1	0	0	0	0	
## 4	1	1	0	0	0	0	1	1	1	1	0	0	0	
## 5	1	1	0	1	0	0	1	1	1	0	0	0	1	
## 6	1	1	0	0	0	0	1	1	1	0	0	0	0	
##	PDLIM7	CAMK4	FGFR1	TAF5	CASP8	CREBBP	RAB10	ACTR1B	NCOA3	E2F1	BMPR2	DCC	PPP2CA	
## 1	1	1	0	1	1	1	1	1	1	0	0	0	0	
## 2	1	0	0	1	1	1	1	0	0	0	1	1	0	
## 3	0	0	0	0	1	0	1	0	0	0	0	0	0	
## 4	1	0	0	1	1	0	1	1	1	0	1	0	0	
## 5	0	0	0	1	1	0	1	0	0	0	1	0	0	
## 6	0	0	0	0	1	0	1	0	0	0	1	0	0	
##	YWHAH	KCNA2	GIT1	ZAP70	HMOX2	RYBP	CASP1	MDM2	GIT1	YWHAQ	DMTN	PAX6	AHNAK	ATXN1
## 1	1	0	1	1	0	1	1	1	1	0	1	0	1	1
## 2	0	0	0	1	0	0	0	0	0	0	1	1	1	1
## 3	0	0	0	1	0	0	0	0	0	0	1	0	1	0
## 4	0	0	1	0	0	1	0	0	1	0	1	1	1	0
## 5	1	0	1	0	0	1	0	1	1	0	1	0	1	1
## 6	0	0	0	0	0	0	1	1	1	0	1	0	1	1
##	INTS11	IGSF21	BRCA1	LSM8	STX6	GPSM3	CBX8	EIF3E	SMAD1	AHR	FEZ1	CD44	POLD2	GRB2
## 1	1	1	1	0	1	1	0	0	1	1	1	0	1	0
## 2	1	1	1	0	0	1	0	0	1	0	1	0	0	0
## 3	1	1	1	0	0	0	0	0	1	0	1	0	0	0
## 4	1	1	1	0	1	1	0	0	1	0	1	0	0	0
## 5	1	1	1	0	1	1	0	0	1	0	1	0	1	0
## 6	1	1	1	0	0	0	0	0	1	0	1	0	0	0
##	PTK2B	DCTPP1	PLAUR	TNNI2	HCFC1R1	ITGA9	CSNK2B	ADAP1	RCC1	TRAF1	BBS10	LRIF1		
## 1	0	0	0	0	0	0	0	1	0	0	0	1	0	
## 2	0	0	0	0	0	0	0	1	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	1	1	0	1	0	1	0	0	0	0	
## 5	0	0	1	1	1	0	1	0	0	0	0	0	0	
## 6	0	0	0	1	1	0	0	0	0	0	0	0	0	
##	GRM3	CANX	CD226	CSNK2A2	PLCG1	CDK1	ANXA1	SQSTM1	ITGB2	MAP3K7	AKT1	PIK3R1	KIT	

## 1	0	1	1	1	0	1	1	0	0	1	1	1	0
## 2	1	0	1	1	0	0	1	0	0	1	1	0	0
## 3	0	0	1	1	0	0	0	0	0	1	0	0	0
## 4	1	1	1	1	0	0	0	0	0	1	1	0	0
## 5	1	1	1	1	0	0	0	0	0	1	1	0	0
## 6	1	0	1	1	0	0	0	0	0	1	1	0	0
##	CHMP5	TRAF1	H4-16	SRSF1	PSEN1	FLT1	GNA12	YWHAG	RAB33A	INSR	ZAP70	ATP2B1	
## 1	0	0	0	0	0	0	1	1	0	1	0	1	
## 2	0	0	0	0	0	0	1	0	0	1	0	1	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	0	0	0	0	1	0	0	1	0	1	
## 5	0	0	0	0	0	0	1	1	0	1	0	1	
## 6	0	0	0	0	0	0	1	0	0	1	0	1	
##	CSNK2A2	TNFRSF11A	EWSR1	PLCG1	EGFR	GRIN1	LYN	KCNK15	TXNDC17	CTTN	GHSR	GAL	
## 1	0		1	1	1	1	0	1	0	1	0	0	1
## 2	0		0	0	0	0	0	0	0	1	0	1	1
## 3	0		0	0	0	0	0	0	0	0	0	0	1
## 4	0		0	1	0	0	0	0	0	1	0	1	1
## 5	0		1	1	0	0	0	1	0	1	0	1	1
## 6	0		0	0	0	0	0	0	0	0	0	1	1
##	ATP5F1B	PPARGC1A	GABBR2	PRKACA	PFDN2	SERTAD2	CDC42	RELA	H3-4	RFC3	PRKDC	DLG1	
## 1	1		1	0	1	1	0	0	0	0	0	0	0
## 2	1		1	0	1	1	0	0	0	0	0	0	0
## 3	1		1	0	0	1	0	0	0	0	0	0	0
## 4	1		1	0	1	1	0	0	0	0	0	0	0
## 5	1		1	0	1	1	0	0	0	0	0	0	0
## 6	1		1	0	1	1	0	0	0	0	0	0	0
##	IGF2R	PLSCR1	SIX1	SRC	SHANK3	NFYC	PORCN	FGF7	SERPING1	FGF5	CCL4	CD58	DIS3L2
## 1	1		1	1	1	1	0	0	1	1	0	1	1
## 2	1		0	0	0	0	0	0	0	0	0	0	1
## 3	0		0	0	0	0	0	0	0	0	0	0	1
## 4	0		1	1	1	1	0	0	1	1	0	0	1
## 5	0		0	1	0	1	0	0	1	1	0	0	1
## 6	0		1	1	1	1	0	0	1	0	0	0	1
##	CCSER2	TMSB4X	PAG1	PTPN11	CD63	PTPN6	VDR	CCNT1	KCNJ4	CAMK2G	SUMO2	GDF9	YWHAH
## 1	0		0	0	1	1	0	0	1	0	1	0	1
## 2	0		0	0	1	0	0	0	1	0	1	0	1
## 3	0		0	0	1	0	0	0	0	0	1	0	1
## 4	0		0	0	1	0	0	0	1	0	1	0	1
## 5	0		0	0	1	1	0	0	1	0	1	0	1
## 6	0		0	0	1	0	0	0	1	0	1	0	1
##	GNAI1	MAGI1	BRK1	NDEL1	DIAPH2	JAK3	UTP14A	SYNE2	SIVA1	MAD2L2	CTBP1	HNRNP1	
## 1	1		0	1	1	1	1	0	1	0	0	1	0
## 2	0		0	0	0	1	1	1	0	0	0	1	0
## 3	0		0	0	0	0	1	1	0	0	0	0	0
## 4	1		0	0	0	1	1	1	0	0	0	0	0
## 5	1		0	0	1	1	1	1	0	0	0	0	0
## 6	1		0	0	0	1	1	1	0	0	0	0	0
##	C1QB	JAK3	CEBPA	TBXA2R	TAF15	SNCA	NONO	GADD45G	TIAM1	SMYD3	FGF1	RAB38	TNFSF11
## 1	1		1	1	1	0	1	1	0	0	0	0	1
## 2	1		1	1	1	0	0	1	0	0	0	0	0
## 3	0		0	0	0	0	0	0	0	0	0	0	0
## 4	1		1	1	1	0	0	1	0	0	0	0	1
## 5	1		1	1	1	0	0	1	0	0	0	1	1

## 6	0	0	1	1	0	0	1	0	0	0	0	0	0	0
##	SRF	GRIN2D	GABBR2	AXL	RACK1	FST	DCTN2	SERPINA5	SNCG	EPB41	NA	PNMA1	EIF1	CDK1
## 1	1	0	0	1	0	1	0	0	1	1	0	1	0	1
## 2	0	0	0	1	0	0	0	0	0	0	0	1	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	1
## 4	1	0	0	1	1	1	0	0	1	1	0	1	0	1
## 5	1	0	0	1	1	1	0	0	0	1	0	1	0	1
## 6	1	0	0	1	1	0	0	0	0	0	0	1	0	1
##	SRC	COL1A2	GDF9	ARHGEF7	KAT2B	SMARCB1	KAT7	COL4A1	IL5RA	AFAP1	EGFR	TLR4	FGFR3	
## 1	1	1	0	1	0	1	1	0	0	0	0	1	1	
## 2	1	0	0	1	0	1	0	0	0	0	0	1	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	
## 4	1	1	0	1	1	1	0	0	1	0	0	1	1	
## 5	1	1	0	1	1	1	0	0	1	0	0	1	1	
## 6	1	1	0	1	0	1	0	0	0	0	0	1	0	
##	H3-4	EPRS1	RPL8	FYN	UBXN11	JUND	UBB	EEF1A1	FRMD6	CD46	NTRK3	GABBR2	CEP126	
## 1	1	0	1	1	1	0	0	0	1	0	0	0	1	
## 2	0	0	1	1	1	0	1	0	1	0	0	0	0	
## 3	1	0	1	1	1	0	0	0	0	0	0	0	0	
## 4	1	0	1	1	1	0	1	1	1	1	0	0	1	
## 5	1	1	1	1	1	0	1	0	1	1	0	0	1	
## 6	1	0	1	1	1	0	0	0	1	0	0	0	0	
##	HDAC4	GRB2	CUL1	MYO5B	BMPR1B	PPP2R2A	RGS2	ATM	HTR1A	PIK3R2	GCG	NR1H2	VAV3	
## 1	0	1	0	0	0	0	0	0	0	0	1	0	0	
## 2	0	1	0	0	0	0	0	1	0	1	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	0	0	0	0	0	0	0	0	0	0	1	
## 5	0	1	0	0	0	0	0	1	0	0	0	0	1	
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0	
##	SMARCE1	CCDC33	SOCS6	NTRK1	EED	KPNB1	KAT5	KIT	IRS1	SRY	CHEK2	NUDT21	GNAI3	
## 1	0	0	0	1	0	0	0	0	0	0	0	0	0	
## 2	0	1	0	0	0	0	0	0	0	0	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	0	1	0	0	0	1	0	0	0	0	0	
## 5	0	1	0	1	0	0	0	1	0	0	0	0	0	
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0	
##	EP400	SCARB1	DDX24	LMNB1	PICK1	JAK2	TGFBR2	ARHGAP1	VAMP2	GRB2	CLTC	RHOA		
## 1	1	1	0	1	1	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	1	0	0	0	0	0	0	0	0	0	
## 5	1	1	0	1	1	0	0	0	0	0	0	1	0	
## 6	1	0	0	1	0	0	0	0	0	0	0	0	0	
##	NKIRAS1	HMG1	WNT3A	EPB41	HDAC2	HSPE1	PTN	CASP3	KAT5	ESR1	FDPS	GYPC	ALDOA	
## 1	1	1	1	1	1	1	0	0	1	1	0	0	0	
## 2	1	0	0	1	1	1	0	0	1	1	0	0	0	
## 3	1	0	0	1	1	1	0	1	1	0	0	0	0	
## 4	1	1	1	1	1	1	0	1	1	1	0	0	0	
## 5	1	0	0	1	1	1	0	0	1	1	0	0	0	
## 6	1	1	0	1	1	1	0	1	1	1	0	0	0	
##	IL4R	CDK9	CCDC33	YWHAZ	AKT1	E2F1	ITGAE	KHSRP	ZNF512B	NCOA6	TICAM1	NANOS1	TK1	
## 1	0	1	0	0	0	0	1	0	0	1	0	0	0	
## 2	0	0	0	0	0	0	1	0	0	1	0	0	0	
## 3	0	1	0	0	0	0	1	0	0	0	0	0	0	

## 4	0	1	0	0	1	1	1	0	0	1	0	0	0
## 5	0	1	0	0	1	0	1	0	0	1	0	0	0
## 6	0	1	0	0	0	0	1	0	0	1	0	0	0
##	UTP14A	PIN1	EPB41L1	TNFRSF11B	RPL36AL	MEN1	RNF111	RNF11	PTPRE	RASA1	CDK5R1		
## 1	1	0	0	0	0	0	1	1	1	1	0	1	
## 2	1	0	0	0	0	0	0	1	0	0	0	1	
## 3	1	0	0	0	0	0	0	1	0	0	0	0	
## 4	1	0	0	0	0	0	1	1	0	1	0	1	
## 5	1	0	0	0	0	0	1	1	0	0	0	1	
## 6	1	0	0	0	0	0	0	1	0	0	0	1	
##	ADAM12	NCOR1	ABL1	YWHAG	NELFB	CAMK2A	PRKCB	BTK	NPHP1	RNF40	COIL	PRKCZ	ALOX5
## 1	1	1	1	0	1	1	1	1	1	1	1	0	0
## 2	1	0	1	0	1	1	1	0	1	1	1	0	0
## 3	0	0	1	0	1	0	1	0	1	1	0	0	0
## 4	1	0	1	0	1	1	1	0	1	1	1	0	0
## 5	1	1	1	0	1	0	1	0	1	1	1	0	0
## 6	1	1	1	0	1	0	1	0	1	1	1	0	0
##	SMN1	NPR1	CFLAR	PFKM	STAP2	YWHAG	GRK5	YY1	FYN	NEDD8	UBQLN4	SRGAP3	TNFSF11
## 1	1	0	1	1	1	1	1	1	1	1	0	0	1
## 2	0	0	1	1	1	1	1	1	1	1	0	0	1
## 3	0	0	1	0	0	1	0	0	1	1	0	0	0
## 4	0	0	1	1	0	1	1	1	1	1	0	0	1
## 5	0	0	1	1	0	1	0	0	1	1	0	0	0
## 6	0	0	1	1	0	0	0	1	1	1	0	0	0
##	DPYSL4	BTG1	BECN1	A2M	THAP1	FRS2	DLG4	MAFA	PTPRS	ZBTB16	CSF3R	EIF3E	UBQLN1
## 1	0	1	0	1	0	1	1	0	1	1	0	1	1
## 2	0	1	0	1	0	1	1	0	1	0	0	1	1
## 3	0	1	0	1	0	0	0	0	1	0	0	1	1
## 4	0	1	0	1	0	1	1	0	1	0	0	1	1
## 5	0	1	0	1	0	1	1	0	1	0	0	1	1
## 6	0	1	0	1	0	1	0	0	1	0	0	1	1
##	LAMA5	RAC1	ETS1	LAIR1	GNA11	CTSB	MAP3K3	NFKB1	PRKRA	HDAC2	HSF1	SURF2	EP300
## 1	1	0	1	0	0	0	0	1	1	1	0	1	0
## 2	1	0	1	0	0	1	0	1	1	1	0	0	0
## 3	0	0	1	0	0	0	0	1	0	1	0	0	0
## 4	1	0	1	0	0	1	0	1	1	1	0	0	0
## 5	1	0	1	0	0	1	0	1	1	1	0	0	0
## 6	1	0	1	0	1	1	0	1	1	1	0	0	0
##	ACTA1	IRS2	IFI16	PSMD2	SIX2	SMAD3	H2AX	HDAC2	TRAF2	ITK	CAV1	PDZK1	PDZK1
## 1	0	0	0	1	1	0	0	1	1	1	0	1	0
## 2	0	0	1	1	0	0	0	1	1	1	0	1	0
## 3	0	0	0	0	0	0	0	1	1	1	0	0	0
## 4	0	0	0	1	0	0	0	1	1	1	0	1	0
## 5	0	0	0	1	0	0	0	1	0	1	0	1	0
## 6	0	0	0	1	0	0	0	1	0	1	0	1	0
##	DNAJA3	DGCR2	MOAP1	SMN1	NA	LIMK2	ATXN1	CEP126	SMAD9	KIF11	KIAA0408	LRPAP1	
## 1	0	0	0	1	1	0	1	1	0	0	0	0	1
## 2	0	0	0	1	1	0	1	1	0	0	0	0	1
## 3	0	0	0	1	1	0	1	1	0	0	0	0	0
## 4	0	0	0	1	1	0	0	1	0	0	0	0	0
## 5	0	0	0	1	1	0	1	1	0	0	0	0	1
## 6	0	0	0	1	1	0	0	1	0	0	0	0	0
##	ANTXR2	CDC34	EGFR	EFNB2	JAK2	RHOA	HOXA5	SMAD1	DLGAP3	GMEB2	SELL	PPP1R37	NCOA6
## 1	1	1	1	0	1	1	1	1	1	1	1	0	1

## 2	1	0	0	0	1	1	0	1	1	1	1	0	0
## 3	0	0	0	0	0	0	0	0	0	1	1	0	1
## 4	0	0	0	0	1	1	1	1	1	1	1	0	0
## 5	0	0	0	0	0	1	0	1	1	1	1	0	1
## 6	0	0	0	0	0	0	0	1	0	1	1	0	0
##	SMAD3	EDA2R	HSPA8	GNAI1	CD244	EXOC8	HMOX2	SERTAD1	PXN	LSM7	XCL1	ACTA2	BLNK
## 1	0	0	1	1	0	0	0	0	0	1	0	0	1
## 2	0	0	1	1	1	1	0	0	0	1	0	0	0
## 3	0	0	1	1	0	1	0	0	0	1	0	0	0
## 4	0	0	1	1	1	1	0	0	0	1	0	0	0
## 5	0	0	1	1	1	0	0	0	0	1	0	0	1
## 6	0	0	1	1	0	0	0	0	0	1	0	0	0
##	ELF3	METTL17	BRCA1	CASP1	TRAF6	IMMT	SLC4A1	IRS1	PGR	UBXN11	NR4A1	HOMER1	
## 1	0	0	1	0	0	1	0	0	1	1	0	0	
## 2	0	0	1	0	0	1	0	0	1	1	0	0	
## 3	0	0	1	0	0	1	0	0	1	1	0	0	
## 4	0	0	1	0	0	1	0	1	1	1	0	1	
## 5	0	0	1	0	0	1	0	0	1	1	0	0	
## 6	0	0	1	0	0	1	0	0	1	1	0	0	
##	PYCARD	CCND1	S1PR2	GIPC1	HRAS	PIK3R1	ADAM17	C8orf33	SERPINH1	CENPA	EPB41	URI1	
## 1	1	1	1	1	1	1	1	1	1	1	0	0	1
## 2	1	1	1	1	1	1	1	1	1	1	0	0	1
## 3	1	1	1	1	0	1	0	1	1	0	0	0	1
## 4	1	1	1	1	1	1	1	1	1	0	0	0	1
## 5	1	1	1	1	1	1	1	1	1	0	0	0	1
## 6	1	1	1	1	1	1	0	1	1	0	0	0	1
##	UBE2I	CDKN1B	TAC1	JUP	HABP4	CD48	GPRASP1	JAG1	NRXN1	SRC	RBBP4	BCAR1	NCAM1
## 1	0	0	1	0	0	0	1	1	1	1	1	0	0
## 2	0	0	0	0	0	0	1	0	1	1	1	1	0
## 3	0	0	1	0	0	0	1	1	1	1	1	0	0
## 4	0	0	1	0	0	0	1	0	1	1	1	0	1
## 5	0	0	1	0	0	0	1	1	1	1	1	0	1
## 6	0	0	1	0	1	0	1	0	1	1	0	0	0
##	CASP3	L1CAM	NRP1	MYO5B	A2M	PPARG	SNRNP70	KLF5	XPNPEP1	TOLLIP	E4F1	APP	SACS
## 1	1	1	1	1	0	0	1	0	0	0	0	0	1
## 2	1	1	0	1	0	0	0	0	0	0	0	1	0
## 3	1	1	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	1	1	0	0	0	0	0	0	0	0	1
## 5	1	1	0	1	0	0	0	0	0	0	1	0	0
## 6	1	1	0	1	0	0	0	0	0	0	0	0	0
##	CAPN2	RASA1	ABI1	TJP1	ANXA7	COL7A1	BRCA1	PIK3R1	PLCG1	BACE1	DDX20	TESC	ENKD1
## 1	1	0	1	1	1	0	0	1	1	1	1	1	0
## 2	1	0	1	1	1	0	0	1	0	1	1	0	0
## 3	1	0	1	0	1	0	0	1	0	1	0	0	0
## 4	1	0	1	1	1	0	0	1	1	1	1	1	0
## 5	1	0	1	1	1	0	0	1	1	1	1	1	0
## 6	1	0	1	1	1	0	0	1	1	1	1	0	0
##	HDAC5	XRCC6	H3-4	MUSK	COPS5	MAPK6	GATA2	TNNI3	THRA	CASP4	GRIA4	LRSAM1	PBXIP1
## 1	0	0	0	0	0	0	1	0	0	1	0	0	0
## 2	0	0	0	0	0	0	1	0	0	1	0	0	0
## 3	0	0	0	0	0	0	1	0	0	1	0	0	0
## 4	1	0	0	0	0	0	1	0	0	1	0	0	0
## 5	1	0	0	0	0	0	1	0	0	1	0	0	0
## 6	1	0	0	0	0	0	1	0	0	1	0	0	0

##	CUL4B	WDR77	ITGB1	IL13RA1	PARP1	NUP98	TSG101	MYOG	IGF2R	NPPA	PRKCB	MBP	TDG	
## 1	0	0	1		1	0	0	1	1	0	1	0	0	1
## 2	0	0	0		1	0	0	1	1	0	0	0	0	0
## 3	0	0	0		1	0	0	1	0	0	0	0	0	0
## 4	0	0	1		1	1	0	1	1	0	0	0	0	1
## 5	0	0	1		1	1	0	1	1	0	0	0	0	1
## 6	0	0	0		1	0	0	1	1	0	0	0	0	1
##	MCRIP2	C11orf49	TSPYL4	SHBG	JAK2	HOXA13	AFDN	STAT3	MAP3K14	MAS1	TUBA1A	TRPC4		
## 1	1		1	0	1	1	1	1		0	1	1	0	
## 2	1		0	0	1	0	1	0		0	1	1	0	
## 3	0		0	0	1	0	1	0		0	1	0	0	
## 4	1		0	0	1	0	1	1		0	1	0	0	
## 5	1		0	0	1	0	1	1		1	1	0	0	
## 6	0		0	0	1	0	1	0		0	1	0	0	
##	PTPN21	DIABLO	NOTCH1	NUAK1	CFLAR	GTF2B	KDR	MYOC	SHANK1	TJP1	PPP2R1A	IL4R		
## 1	0	0	0	1	0	1	1	0		0	0	1	1	
## 2	0	0	0	0	0	0	0	0		1	0	1	1	
## 3	0	0	0	0	0	0	0	0		0	0	0	0	
## 4	0	0	0	0	0	1	1	0		0	0	1	1	
## 5	0	0	0	0	0	1	1	0		1	0	1	1	
## 6	0	0	0	0	0	0	1	0		1	0	1	1	
##	SNAPIN	RRAS	RB1	DAB2	EPHA7	CD4	S100A10	PCDHA4	LDOC1	EPRS1	NT5E	STAT3	RET	PLK1
## 1	0	1	1	1	0	1		0	0	1	1	1	1	0
## 2	0	1	1	1	0	0		0	0	1	1	1	0	0
## 3	0	1	1	1	0	0		0	0	0	1	1	0	0
## 4	0	1	1	1	0	0		0	0	1	1	1	1	0
## 5	0	1	1	1	0	1		0	0	1	1	1	0	1
## 6	0	1	1	1	0	1		0	0	1	1	1	0	0
##	PRC1	CDK1	CTNNB1	SUMO4	NCAN	FADD	PRKCB	IGFBP5	BIRC5	TK1	GIPC1	GSK3B	MOB4	
## 1	0	1	1	0	1	0	1	1	0	1	1	1	1	
## 2	0	1	1	0	1	0	1	1	0	1	1	1	1	
## 3	0	1	0	0	0	0	0	1	0	1	1	1	0	
## 4	0	1	1	0	1	0	1	1	0	1	1	1	1	
## 5	0	1	1	0	1	0	1	1	0	1	1	1	1	
## 6	0	1	1	0	1	0	1	1	0	1	1	1	1	
##	CSNK1E	PMCH	BMPR1B	EGFR	UBR5	CBX4	UBQLN4	JUN	CCDC85B	CHAF1A	PARP1	RPA1	DYRK1B	
## 1	1	0	1	0	0	0	1	1	1	1	1	1	1	
## 2	1	1	1	0	0	0	1	0	1	1	1	1	1	
## 3	0	1	0	0	0	0	0	0	1	1	1	1	0	
## 4	1	1	1	1	0	0	1	1	1	1	1	1	1	
## 5	1	1	1	1	0	0	1	1	1	1	1	1	1	
## 6	1	0	1	1	0	0	1	1	1	1	0	1	1	
##	EDF1	AXL	MYO5B	HSPA5	ZFPM2	HHEX	RAB27A	PKN1	DOK4	CD28	IGF2R	SUMO4	RAF1	INS
## 1	1	1	0	1	1	1	1	1	1	1	1	1	1	0
## 2	1	1	0	1	1	1	1	1	1	0	0	1	1	0
## 3	1	0	0	1	1	0	1	1	1	1	0	1	1	0
## 4	1	1	0	1	1	1	1	1	1	1	1	1	1	0
## 5	1	1	0	1	1	1	1	1	1	1	0	1	1	0
## 6	1	1	0	1	1	1	1	1	0	1	1	1	1	0
##	APOA2	PIK3R1	ACTN1	NAPA	TRADD	BIRC5	SCFD1	HMGB1	HNRNPA2B1	GALR1	LSM3	KAT2B		
## 1	0	1	0	1	0	1	1	1		0	0	1	0	
## 2	0	1	0	1	0	1	0	1		0	1	0	0	
## 3	0	0	0	0	0	0	0	0		0	0	0	0	
## 4	0	1	0	1	0	0	0	1		0	1	1	0	

## 5	0	1	0	1	0	0	0	1	0	1	0	0		
## 6	0	1	0	1	0	0	0	1	0	1	0	0		
##	SRC	AFDN	ANXA7	WIPF2	HSPA1A	PPARG	ETS1	ESR1	DPPA2	PRKCQ	SIN3B	CABP1	BLNK	
## 1	1	0	0	0	0	1	0	0	1	0	1	1	1	
## 2	1	0	0	0	0	1	0	0	1	0	1	1	1	
## 3	0	0	0	0	0	0	0	0	1	0	1	0	1	
## 4	1	1	0	0	0	1	0	0	1	0	1	1	1	
## 5	1	1	0	0	0	0	0	0	1	0	1	1	1	
## 6	1	1	0	0	0	1	0	0	1	0	1	1	1	
##	SH3GL3	PPARD	VCL	LSM2	ARNTL	KIF23	CENPU	PGR	GLUL	GPS2	CCL14	RAF1	PCBD1	ESR2
## 1	1	0	1	0	1	0	1	1	1	1	0	1	1	1
## 2	0	0	1	0	0	0	0	1	1	1	1	0	1	1
## 3	0	0	0	0	1	0	0	1	0	1	0	0	0	0
## 4	1	0	1	0	1	0	0	1	1	1	1	0	1	1
## 5	0	0	1	0	1	0	0	1	1	1	0	0	1	1
## 6	0	0	1	0	1	0	0	1	1	1	0	0	1	1
##	DNMT3A	FCGR2B	KLHL42	LYN	TSC22D1	SH3GL3	EPRS1	CITED4	FGF2	MAD2L2	STK36	GRK2		
## 1	0	1	1	1	0	1	1	0	1	1	0	1		
## 2	0	1	0	1	0	1	1	0	1	0	0	0	1	
## 3	0	0	0	1	0	0	0	0	0	0	0	0	1	
## 4	0	1	1	1	0	1	1	0	1	0	0	0	1	
## 5	0	1	1	1	0	0	1	0	0	0	0	0	1	
## 6	0	1	1	1	0	0	1	0	1	0	0	0	1	
##	TRERF1	GRM3	COPS3	FAS	GZMA	IL1RAP	CUL5	AXIN1	EPOR	KPNB1	TNFRSF10D	ARID4A		
## 1	1	0	0	1	0	1	0	1	0	0	1	1		
## 2	0	0	0	1	0	1	0	1	0	0	0	1		
## 3	0	0	0	1	0	0	0	1	0	0	0	0		
## 4	0	0	0	1	0	1	0	1	0	0	1	1		
## 5	0	0	0	1	0	1	0	1	0	0	0	1		
## 6	0	0	0	1	0	0	0	1	0	0	1	0		
##	MED22	BRCA2	GRIPAP1	SRC	PFN2	TRAF2	HNRNPU	PSMC5	SKIL	GPRASP2	PGR	PDCD6IP		
## 1	0	0	1	1	1	0	0	1	1	0	0	1		
## 2	0	0	1	1	1	0	0	0	1	0	0	1		
## 3	0	0	1	0	1	0	0	0	0	0	0	0		
## 4	0	0	1	0	1	0	0	1	1	0	0	1		
## 5	0	0	1	0	1	0	0	1	0	0	0	1		
## 6	0	0	1	0	1	0	0	0	1	0	0	1		
##	PLAUR	ST13	REL	PDGFA	POLDIP2	PIGC	VAV1	LZTS2	PIP4K2C	MAP1A	LRIF1	KHSRP	BMI1	
## 1	0	0	1	0	0	1	0	0	1	0	0	0	0	
## 2	0	0	0	0	0	1	0	1	0	0	0	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	0	0	1	0	0	0	0	0	0	0	
## 5	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 6	0	0	1	0	0	0	0	0	0	0	0	0	0	
##	RELA	PSMD4	FSCN1	PSG3	PRKCA	TUBA1A	LRP1	STRAP	GSK3B	IL18	RNF19A	YWHAQ	IFI16	
## 1	0	0	1	0	1	1	0	0	1	1	1	1	0	
## 2	0	0	1	0	0	1	0	0	1	1	1	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	1	1	0	
## 4	0	1	1	1	0	1	0	0	1	1	1	1	0	
## 5	0	0	1	1	1	1	0	0	1	1	1	1	0	
## 6	0	0	1	0	0	1	0	0	1	1	1	1	0	
##	BAG6	GHR	EP300	UBB	NUDT21	TNFRSF1A	APEX2	PARP1	SUMO3	ERRFI1	TYK2	NA	SNCA	
## 1	1	0	0	1	0	0	1	1	1	0	1	0	0	
## 2	1	0	0	1	0	0	0	0	1	0	1	0	0	

## 3	0	0	0	0	0	0	0	0	0	0	1	0	0	
## 4	1	0	0	1	0	0	0	1	1	0	1	0	0	
## 5	1	0	0	0	0	0	0	1	1	0	1	0	0	
## 6	0	0	0	0	0	0	0	0	0	0	1	0	0	
##	ACTA1	MEF2C	PXN	CD40	UBB	SYK	GNAQ	SMAD9	C1QBP	PIK3R1	CAPN1	TNFRSF10B	PNKP	
## 1	1	0	0	0	1	1	1	1	0	1	1	0	0	
## 2	1	0	0	0	0	1	0	1	0	0	1	0	1	
## 3	1	0	0	0	0	1	0	0	0	1	1	0	0	
## 4	1	1	1	0	1	1	1	1	0	1	1	0	0	
## 5	1	1	1	0	1	1	1	1	0	0	1	0	1	
## 6	1	1	1	0	1	1	0	1	0	1	1	0	0	
##	ARF6	SKIL	CDK1	ROBO2	EDN3	SRC	BMPR2	COL4A6	SNRPD2	EGFR	GNA13	DAG1	ZBTB17	BRAF
## 1	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	1	0	0	0	0	0	0	0	1	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	CD36	SMAD7	SNAP23	OPRM1	AVEN	TRIP6	FAF1	ACVR1B	PRKDC	MYOC	CASP3	RPS2	SUMO1	
## 1	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	0	1	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	1	1	0	0	0	
## 5	0	0	1	0	0	0	0	0	0	1	0	0	0	
## 6	0	0	0	0	0	0	0	0	0	1	0	0	0	
##	CCND1	HDAC9	PROC	MDM4	RRAS2	PAX3	SHC1	PTBP1	SRPK1	FOXG1	ITGAM	UBR1	TRAF2	
## 1	0	1	1	0	1	0	0	0	0	1	0	0	1	
## 2	0	0	1	0	1	0	0	0	0	1	0	0	1	
## 3	0	0	0	0	1	0	0	0	0	0	0	0	1	
## 4	0	0	0	0	1	0	1	1	0	1	0	0	1	
## 5	0	0	1	0	1	0	1	0	0	1	1	0	1	
## 6	0	0	0	0	1	0	0	0	0	1	0	0	1	
##	UBE2I	GRB2	YWHAB	TNFAIP3	ESR1	MEF2C	ADGRB2	SMAD7	RRAS	PPP5C	TRA2B	RAB1A	TRADD	
## 1	0	1	0	1	0	0	1	0	0	0	1	1	0	
## 2	0	1	0	1	0	0	1	0	0	0	0	1	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	1	0	
## 4	0	1	0	1	0	0	1	0	0	0	1	1	0	
## 5	1	1	0	1	0	0	1	0	0	0	1	1	0	
## 6	0	1	0	1	0	0	1	0	0	0	0	1	0	
##	PPP2R5A	CEP76	STC2	SMURF2	HCFC1	TCF3	NUDT3	BMX	PFN1	GRB7	IL1R1	GRB2	LRP1	
## 1	1	1	0	0	1	0	0	1	0	0	0	0	1	
## 2	1	1	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	0	1	0	0	1	0	0	0	0	0	
## 5	1	1	0	0	0	0	0	1	0	0	0	0	0	
## 6	1	1	0	0	0	0	0	1	0	0	0	0	0	
##	MOAP1	CENPJ	RRAS	ATXN1L	CASK	NAP1L4	TTN	PGD	ANXA1	PPP2R3A	TJP1	LENG8	ATF7IP	
## 1	1	0	1	1	1	0	0	0	0	0	0	1	1	
## 2	1	0	0	0	1	0	0	0	0	0	0	1	0	
## 3	1	0	1	0	1	0	0	0	0	0	0	0	0	
## 4	1	0	1	1	1	0	0	0	0	0	0	1	1	
## 5	1	0	1	1	1	0	0	0	0	0	0	1	1	
## 6	1	0	1	1	1	0	0	0	0	0	0	1	1	
##	AP1G2	CD4	NCK1	ESR1	TAF1	SNAPIN	PLCG1	MYC	CABLES2	SMAD7	CASP8	CDK3	THBS1	BTK

## 1	0	0	1	0	1	0	1	0	0	0	0	0	0	0
## 2	0	1	1	0	0	0	1	0	0	0	1	0	0	0
## 3	0	0	1	0	0	0	1	0	0	0	0	0	0	0
## 4	0	1	1	0	0	0	1	0	0	0	1	0	0	0
## 5	0	0	1	0	0	0	1	0	0	0	1	0	0	0
## 6	0	0	1	0	0	0	1	0	0	0	1	0	0	0
##	RAN	PPP5C	GSK3B	RARG	ITGB3	RALB	LRP1B	CDCA3	IL17RB	KAT6B	SERPINF2	ZC3H15	ESR1	
## 1	0	0	0	0	0	0	1	1	0	1	0	1	0	
## 2	0	0	0	0	0	0	1	1	0	1	0	0	0	
## 3	0	0	0	0	0	0	1	0	0	1	0	0	0	
## 4	0	1	0	1	0	0	1	1	0	1	0	1	0	
## 5	0	0	0	1	0	0	1	1	0	1	0	1	0	
## 6	0	0	0	1	0	0	1	1	0	1	0	0	0	
##	EWSR1	VPS18	SMN1	CRMP1	CDK9	PAG1	GRK3	NCF2	TGFBR1	MYD88	CEACAM1	HES1	HHIP	
## 1	0	1	1	0	0	1	1	0	0	1	1	1	0	
## 2	0	1	1	0	0	1	0	0	0	1	1	1	0	
## 3	0	0	1	0	0	0	0	0	0	1	1	0	0	
## 4	0	0	1	0	0	1	0	0	0	1	1	1	0	
## 5	0	0	1	0	0	1	0	0	0	1	1	1	0	
## 6	0	0	1	0	0	1	0	0	0	1	1	1	0	
##	BUB1	CR2	PLG	ARPC3	PTN	BCAP31	RASD2	RAD1	HNRNPA2B1	TH	EEF1A1	CEP126	KAT2B	
## 1	0	1	1	1	1	0	0	0	1	1	1	0	0	
## 2	0	0	1	1	0	1	0	0	0	0	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	1	0	0	
## 4	0	0	1	0	0	0	0	0	1	0	1	0	0	
## 5	0	0	1	0	0	0	0	0	1	0	1	0	0	
## 6	0	0	0	0	0	0	0	0	1	0	1	0	0	
##	TYK2	MOB1A	TRAF6	NA	DUSP10	ARID3A	SETDB1	NCOA1	AP1B1	ERBB3	THBS1	RABAC1	DLG1	
## 1	1	0	0	1	0	1	0	1	0	0	0	0	1	
## 2	0	0	0	1	0	1	1	1	0	0	0	0	0	
## 3	0	0	0	1	0	1	0	1	0	0	0	0	0	
## 4	0	0	0	1	0	1	0	1	0	0	0	0	0	
## 5	0	0	0	1	0	1	0	1	0	0	0	0	0	
## 6	0	0	0	1	0	1	0	1	0	0	0	0	0	
##	HSD17B10	GPRASP1	MAP1B	UBE3A	ELOC	NCK1	GZMB	OSGEP	EEF1A1	SPAG9	CPE	COL4A2		
## 1	1	1	1	0	1	0	1	0	1	1	0	1		
## 2	1	0	0	0	0	0	0	1	0	1	1	0	1	
## 3	1	0	0	0	0	0	0	1	0	1	0	0	0	
## 4	1	0	0	0	1	1	1	1	1	1	1	0	1	
## 5	1	0	0	0	0	1	1	0	1	1	1	0	1	
## 6	1	0	0	0	0	1	1	0	1	1	1	0	1	
##	PTPRK	TBP	DST	MAP2K4	PTPRZ1	VCAM1	CEP126	RUNX1	ACTA1	SMAD2	ALDOA	PTK2	RPIA	
## 1	1	0	1	0	0	0	0	1	0	0	1	0	0	
## 2	1	0	1	0	0	0	0	0	0	0	1	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	1	0	0	
## 4	1	0	1	0	0	0	0	0	0	0	1	0	0	
## 5	1	0	1	0	0	0	0	1	0	0	1	0	1	
## 6	1	0	1	0	0	0	0	0	0	0	1	0	0	
##	IKBKB	ITGAV	TNFRSF1A	CSNK2B	CFLAR	MMP14	SNTG1	GNAI2	DLG1	PTPRC	MAP3K14	FKBP10		
## 1	1	1	1	1	1	0	1	1	0	0	1	1		
## 2	1	1	1	0	1	0	0	1	1	0	1	1		
## 3	1	1	1	0	1	0	0	1	0	0	0	0		
## 4	1	1	1	0	1	0	0	1	0	0	1	1		
## 5	1	1	1	0	1	0	1	1	0	0	1	1		

## 6	0	1	1	0	1	0	0	0	0	0	1	0		
##	MDF1	RAC1	VEGFD	PLCG2	TNNT1	CHMP4B	F11R	ATF7IP	STEAP3	PSG9	GAB3	CRMP1	IFNAR1	
## 1	0	0	0	0	0	0	0	0	1	0	0	1	1	
## 2	1	0	0	0	0	0	0	0	1	0	0	1	1	
## 3	0	1	0	0	0	0	0	0	1	0	0	0	1	
## 4	1	1	0	0	0	0	0	0	1	0	0	1	1	
## 5	1	1	0	0	0	0	1	0	1	0	0	1	1	
## 6	1	1	0	0	0	0	0	0	1	0	0	1	1	
##	RGS1	MATR3	GMCL1	REN	STAP2	NOS3	CLTC	HRAS	PRKCA	PTPN11	RNF11	KPNA2	HRAS	EPHB3
## 1	1	1	1	0	1	0	1	0	0	1	1	0	1	1
## 2	0	1	1	0	1	0	1	0	1	1	1	1	1	1
## 3	0	1	1	0	1	0	1	0	0	1	0	0	1	1
## 4	1	1	1	0	1	0	1	0	0	1	1	0	1	1
## 5	1	1	1	0	1	0	1	0	0	1	1	1	1	1
## 6	0	1	1	0	1	0	1	0	0	1	1	1	1	1
##	CSF1R	GPSM1	MAGEA11	SRF	FADD	DGKA	SRSF1	SH3BP2	KAT2B	CRMP1	YWHAH	EPHA2	CDC25A	
## 1	1	0	1	0	1	1	0	0	1	1	1	0	0	
## 2	1	0	1	0	1	1	0	0	1	1	1	0	1	
## 3	0	0	1	1	1	0	0	0	1	0	1	0	0	
## 4	0	0	1	1	1	1	0	0	1	0	1	0	0	
## 5	1	0	1	0	1	1	0	0	1	0	1	1	0	
## 6	0	0	1	0	1	1	0	0	1	0	1	0	0	
##	ACKR4	NCOR2	CCDC106	ALDH2	ANXA2	ERN1	RBBP4	ROCK1	PRMT1	PLSCR1	DOK1	YWHAZ	HHEX	
## 1	0	0	0	0	0	1	0	1	1	0	0	1	0	
## 2	0	0	0	0	0	1	0	1	0	0	0	0	0	
## 3	0	0	0	0	0	1	0	0	1	0	0	0	0	
## 4	0	0	0	0	0	1	1	1	1	0	0	1	0	
## 5	0	0	0	0	0	1	1	1	1	0	0	1	0	
## 6	0	0	0	0	0	1	1	1	1	0	0	0	0	
##	DYRK1B	GSK3B	MBIP	PLAUR	ATN1	RUNX1T1	TNNI1	PDGFRB	CDK5	USP45	CSNK2B	HDAC5		
## 1	1	0	0	0	0	1	0	0	0	0	0	1		
## 2	0	0	0	0	0	1	0	0	0	0	0	1		
## 3	0	0	0	0	0	1	0	0	0	0	0	0		
## 4	1	0	0	0	0	1	0	1	1	0	0	1		
## 5	1	0	0	0	0	1	0	0	1	0	0	1		
## 6	0	0	0	0	0	1	0	0	0	0	0	1		
##	USP33	CNTNAP4	SMARCE1	NROB2	MAD1L1	ACKR4	ADCY6	REL	ADRB1	GRIN1	CALCOCO2	NUCB1		
## 1	0	1	1	0	0	0	0	1	0	1	1	0		
## 2	0	1	1	0	0	0	0	0	0	1	1	0		
## 3	0	0	1	0	0	0	0	0	0	1	1	0		
## 4	0	1	1	1	0	0	0	0	0	1	1	0		
## 5	0	1	1	0	0	0	0	0	0	1	1	0		
## 6	0	1	1	0	0	0	0	0	0	1	1	0		
##	LSM2	LDOC1	CASP9	GDF9	FHIT	APBB1	NR1I2	PHYHIP	FYN	MAPK3	GNAZ	ITGA6	CKMT2	ELK1
## 1	1	0	1	1	1	1	0	1	0	0	0	1	1	0
## 2	1	0	1	0	1	1	0	0	0	0	0	0	1	0
## 3	1	0	0	1	1	1	0	0	0	0	0	0	0	0
## 4	1	0	1	1	1	1	0	1	0	0	0	0	1	0
## 5	1	0	1	1	1	1	0	1	0	0	0	0	1	0
## 6	1	0	1	0	1	1	0	1	0	0	0	0	1	0
##	RAC1	GRB2	HNRNPA1	MED31	CSNK1D	HIPK3	PLEKH01	GNAO1	WDCP	TGFB1	RAB27A	SUMO4		
## 1	0	0	1	1	1	1	0	1	0	1	1	1		
## 2	0	0	1	0	0	0	0	1	0	0	1	1		
## 3	0	0	0	0	0	0	0	1	0	0	1	1		

## 4	0	0	1	1	0	0	0	1	0	0	1	1		
## 5	0	0	0	0	0	0	0	1	0	1	1	1		
## 6	0	0	1	0	0	0	0	1	0	0	1	1		
##	ACVR2B	HNF4A	SHC1	SELL	CASP3	FUS	TNFRSF14	TNFRSF1A	GRB2	EGFR	AP3B2	RPS6KA5		
## 1	1	0	1	0	0	1	0	0	0	0	1	1		
## 2	1	0	1	0	0	1	0	0	0	0	1	0		
## 3	0	0	1	0	0	1	0	0	0	0	1	1		
## 4	0	0	1	0	0	1	0	0	0	0	1	1		
## 5	0	0	1	0	0	1	0	0	0	0	1	1		
## 6	0	0	1	0	0	1	0	0	0	0	1	1		
##	GRB10	IL6R	CDT1	NCOA3	FN1	HOOK2	LHX9	STX6	POLB	RBPJ	WHRN	SF3A3	PRKAR1A	EP300
## 1	0	0	1	0	1	1	1	1	0	0	1	1	1	1
## 2	0	0	1	0	1	1	0	0	0	0	1	1	1	1
## 3	0	0	0	0	1	1	0	0	0	0	1	1	1	0
## 4	0	0	0	0	1	1	0	0	0	0	1	1	1	1
## 5	0	0	0	0	1	1	0	0	0	0	1	1	1	0
## 6	0	0	0	0	1	1	0	0	0	0	1	1	1	0
##	SYK	RXRA	HIPK1	RBM5	NUP50	SMN1	VAV1	SCNN1A	AKT2	PTPN11	PLCB2	TRIB3	RPS15A	
## 1	0	0	1	1	0	0	0	0	0	0	0	0	0	1
## 2	0	0	1	1	0	0	0	0	0	0	0	0	0	1
## 3	0	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	1	1	1	0	0	0	0	1	0	0	1
## 5	0	0	0	1	1	1	0	0	0	0	1	0	0	1
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0	0
##	CRKL	MPHOSPH6	COLQ	LPAR1	TAF1D	FXR2	SCAMP1	NCK1	PTPRB	LCK	DYNLL1	CSF2RB		
## 1	0	1	1	0	0	1	0	0	1	1	0	0	1	
## 2	0	0	1	0	0	1	0	0	1	0	0	0	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0	
## 4	0	0	1	0	0	1	0	0	1	1	0	0	0	
## 5	0	0	1	0	0	1	0	0	1	0	0	0	0	
## 6	0	0	1	0	0	1	0	0	1	0	0	0	1	
##	ITGB3BP	LAMTOR5	DNAJB1	GNA11	DNM1	NHLH1	NEUROD1	MAPKAPK5	AKAP10	NXF1	SMARCD1			
## 1	0	0	0	1	0	0	1	1	1	0	0	0		
## 2	0	0	0	1	0	0	0	1	1	0	0	0		
## 3	0	0	0	0	0	0	0	1	1	0	0	0		
## 4	0	0	0	1	0	1	1	1	1	0	0	1		
## 5	0	1	1	1	0	1	1	1	1	0	0	0		
## 6	0	0	0	1	0	0	0	1	1	0	0	1		
##	FLNC	CTSD	RARA	ITGA3	BTK	HHEX	MST1R	EP300	SIRT2	PLCG2	IRS2	RUNX1T1	MBP	ELAC2
## 1	0	1	0	0	1	0	1	1	1	1	1	1	0	0
## 2	0	0	0	0	1	0	1	0	0	1	0	0	0	0
## 3	0	0	0	0	1	0	1	0	0	0	0	0	0	0
## 4	0	1	0	0	1	0	1	0	0	1	1	1	0	0
## 5	0	1	0	0	1	0	1	0	0	1	1	1	0	0
## 6	0	0	0	0	1	0	1	0	0	1	1	0	0	0
##	HDAC2	RPS6KA3	STUB1	SPTAN1	HSPB2	GPRASP1	RALBP1	CRMP1	FBXO34	EEF1A1	TAF1	VTN		
## 1	0	0	1	0	1	1	0	1	0	1	1	1	1	
## 2	0	0	1	0	0	1	0	1	0	0	0	1	1	
## 3	0	0	1	0	0	0	0	0	0	0	0	1	0	
## 4	0	0	1	0	1	1	0	1	0	0	0	1	1	
## 5	0	0	1	0	1	1	0	1	0	0	0	1	1	
## 6	0	0	1	0	0	1	0	0	0	0	0	1	1	
##	GRK2	VCP	BMP2	TAOK2	SERPINE1	MAST2	CENPB	RUVEL1	PRPF40A	DLG1	NFKB2	DPP4	GABPA	
## 1	0	0	0	1	1	0	1	1	0	1	0	0	0	1

## 2	0	0	0	1	0	0	1	0	0	0	0	0	0		
## 3	0	0	0	0	0	0	1	0	0	0	0	0	0		
## 4	0	0	0	1	1	1	1	0	0	1	0	0	1		
## 5	0	0	0	1	0	0	1	0	0	1	0	0	1		
## 6	0	0	0	0	0	1	1	0	0	1	0	0	1		
##	MNDA	LYN	NTAQ1	PIK3CA	GSK3B	PPP2R1A	CAMK1	TRMT2A	ADGRB1	CCNB1	YTHDC1	LRIF1			
## 1	0	0	1	0	0	0	0	0	0	1	0	0			
## 2	0	0	1	0	1	0	1	0	1	1	0	0			
## 3	0	0	0	0	0	0	0	0	0	1	0	0			
## 4	0	0	1	1	0	1	1	0	0	1	0	0			
## 5	0	0	0	1	0	0	0	1	0	1	0	0			
## 6	0	0	0	1	0	0	0	0	0	1	0	0			
##	SNAP23	IRF8	BICD2	DAXX	FBNP4	PLEC	KISS1	JUN	GRM5	NACAD	MAP1A	ITGA1	EPHA2	CAMP	
## 1	0	0	0	0	0	1	1	0	1	0	0	0	0	1	
## 2	0	0	0	0	1	0	1	0	1	0	0	0	0	1	
## 3	0	0	0	0	0	1	0	0	1	0	0	0	0	1	
## 4	0	0	0	0	0	1	1	0	1	0	0	0	0	1	
## 5	0	0	0	0	0	1	1	0	1	0	0	0	0	1	
## 6	0	0	0	0	0	1	1	0	1	0	0	0	0	1	
##	CDH1	LUC7L3	OGT	F2	ATXN1	UBTF	SNW1	SP1	NA	BRCA1	PTPRF	MAPK3	HIP1R	LMO2	MADD
## 1	0	1	0	0	1	1	1	0	1	1	0	0	0	0	0
## 2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
## 4	1	1	0	0	1	0	1	0	1	0	0	0	0	0	0
## 5	1	1	0	0	1	0	1	0	1	0	0	0	1	0	0
## 6	1	1	0	0	0	0	1	0	1	0	0	0	0	0	0
##	SERPINB9	FGFR3	UNC119	LRP6	S100B	NUP98	DAB2	TGFBR1	SYP	MDK	SLC4A3	FN1	EMD	PNN	
## 1	0	0	0	0	0	0	1	0	1	0	1	0	1	1	1
## 2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
## 4	0	0	0	0	0	0	0	0	1	0	1	0	0	1	1
## 5	0	0	0	0	0	0	1	0	1	0	1	0	1	0	1
## 6	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1
##	WWP1	GAB1	TGFBR2	AR	PARD6A	RBBP8	ERBB2	HDAC1	JAK2	GCG	MYO10	HCFC1	MEF2C	NFE2	
## 1	0	1	1	0	1	0	0	0	1	0	0	0	0	0	0
## 2	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
## 4	0	0	1	0	1	0	0	0	1	0	0	0	1	1	1
## 5	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0
## 6	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0
##	HIPK2	NXF1	PIK3CA	BEX3	NOTCH1	CD82	NA	EDN3	MEF2C	IRF3	IQGAP1	TICAM1	GADD45G		
## 1	0	1	1	0	1	0	1	1	0	0	0	1	0	0	
## 2	0	1	1	0	1	0	0	0	0	0	0	1	0	0	
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 4	0	1	1	0	1	0	1	0	0	0	0	0	0	0	
## 5	0	0	1	0	1	0	1	0	0	0	0	1	0	0	
## 6	0	0	0	0	1	0	0	0	0	0	0	0	0	0	
##	UBQLN4	CATSPER1	RGS2	SP100	EIF2AK3	F2	HRG	COX17	NMI	EIF6	HDHD2	TSPAN15	GSE1		
## 1	1	0	1	0	1	1	0	0	1	1	1	0	0	0	
## 2	1	0	1	0	1	1	0	0	0	1	1	0	0	0	
## 3	0	0	0	0	1	0	0	0	0	1	1	0	0	0	
## 4	1	0	1	0	1	1	0	0	1	1	1	0	0	0	
## 5	1	0	1	0	1	1	0	0	0	1	1	0	0	0	
## 6	1	0	1	0	1	1	0	0	0	1	1	0	0	0	

##	GNAI3	TRPC4	EDF1	RAC2	CDK1	GNG2	AXIN1	FKBP5	TAF6	HAP1	FASLG	PKN2	FGF1	MSX1
## 1	0	1	0	1	1	0	1	0	1	0	0	0	1	0
## 2	0	0	0	1	1	0	1	0	1	0	0	0	1	0
## 3	0	0	0	1	0	0	1	0	1	0	0	0	1	0
## 4	0	0	0	1	1	0	1	0	1	0	0	0	1	0
## 5	0	1	0	1	1	0	1	0	1	0	0	0	1	0
## 6	0	0	0	1	1	0	1	0	0	0	0	0	1	0
##	RARA	RUNX1T1	TRAF2	TRAF1	STAT3	ZNF512B	EGFR	NTRK1	PPP1R8	TUBB	HSP90AA1	UBE2I		
## 1	1	0	0	1	0	0	0	1	0	1		1	1	
## 2	0	0	0	1	0	0	0	1	0	0		1	1	
## 3	0	0	0	0	0	0	0	0	0	0		1	0	
## 4	0	0	0	0	0	0	0	1	0	1		1	0	
## 5	0	0	0	0	0	0	0	1	0	1		1	0	
## 6	0	0	0	0	0	0	0	1	0	1		1	0	
##	FHL2	CSK	SUV39H2	HSPA8	SPART	STAT3	NUP214	ACVR1B	CKB	CLIC1	CD36	PCBD1	TLE5	
## 1	1	0	0	0	0	0	0	0	1	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 4	1	0	0	0	0	0	0	0	1	0	0	0	0	
## 5	1	0	0	0	0	0	0	0	1	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	1	0	0	0	0	
##	LDLR	NME2	MAP1A	STAT1	CSNK2B	SPRED1	UBE2G2	FCER1G	MAP3K8	MBTPS1	SMAD3	GRK2		
## 1	1	0	0	0	0	0	0	1	0	1	1	1		
## 2	1	0	1	0	0	1	0	0	0	1	0	1		
## 3	1	0	0	0	0	0	0	0	0	0	0	0		
## 4	1	0	0	0	0	0	0	0	0	0	0	0		
## 5	1	0	0	0	0	0	0	0	0	0	0	0		
## 6	1	0	0	0	0	0	0	0	0	1	0	1		
##	MAPK1	BMPR2	EGF	HSF2	ITSN2	PLCD1	POLR1B	RBPJ	PGR	CD2	ACP1	FLNC	PRKCG	MBIP
## 1	1	1	1	0	0	0	0	1	0	0	0	0	0	1
## 2	1	0	1	1	0	0	1	1	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	1	0	0	0	1	0	0	1	0	0	0	0
## 5	1	0	1	0	0	0	0	1	0	1	0	0	0	0
## 6	1	0	1	0	0	0	0	0	0	0	0	0	0	0
##	CASP3	CCDC90B	AVPR2	CSTB	HFE	CRKL	NR4A1	GRIPAP1	RELA	NPM1	NF2	CALM1	DYNC1I1	
## 1	0	1	1	0	0	0	1	0	0	1	0	0	1	
## 2	0	0	0	0	0	1	0	0	0	0	0	0	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1	
## 4	0	1	0	1	0	0	1	0	0	0	0	0	1	
## 5	0	1	1	0	0	0	1	0	0	1	0	0	1	
## 6	0	1	0	0	0	0	0	0	1	0	0	0	1	
##	KAT2A	TFR2	GRB7	TUBA3C	C4orf17	PTPRU	UCN	MAP4K4	LIFR	RRAS2	PER2	PTPN11	ITGB1	
## 1	0	0	1	0	1	0	0	1	1	1	0	0	0	
## 2	0	0	1	0	1	0	0	1	0	1	0	0	0	
## 3	0	0	0	0	1	0	0	1	0	1	0	0	0	
## 4	0	0	1	0	1	0	0	1	0	1	0	1	1	
## 5	1	0	1	0	1	0	0	1	0	1	0	1	1	
## 6	0	0	1	0	1	0	0	1	0	1	0	1	1	
##	PCBP1	CDC25A	YTHDC1	PRKCA	KRTAP4-12	DNM3	F2	VAV1	TP53	LRP1	SRC	RHOA	HSF1	
## 1	0	1	1	0		1	0	1	0	1	0	0	1	1
## 2	0	0	1	0		1	0	0	0	1	0	0	1	0
## 3	0	0	0	0		1	0	0	0	0	0	0	1	0
## 4	0	1	1	1		1	0	0	0	1	0	0	1	0

## 5	0	0	1	1		1	0	1	0	1	0	0	1	0	
## 6	0	1	1	0		1	0	0	0	0	0	0	1	0	
##	TGIF1	CHMP4A	CYTH2	IL6ST	SMAD3	FGFR3	FOXP1	PLXNB2	TRIP6	TRIM37	PSG4	TOP2A			
## 1	1	1	1	0	1	0	1	0	1	0	0	0			
## 2	1	0	0	0	1	0	1	0	0	0	0	0			
## 3	1	0	0	0	1	0	1	0	0	0	0	0			
## 4	1	0	0	0	1	0	1	0	0	0	0	0			
## 5	1	0	0	0	1	0	1	0	0	0	0	0			
## 6	1	0	0	0	1	0	1	0	0	0	0	0			
##	MBIP	BRCA1	YWHAE	C5	TNFRSF10C	PRPH	TNK2	MAPT	SMARCA4	BMPR1B	DLG2	ATF7IP2	DAXX		
## 1	0	0	0	0		0	0	0	0	0	1	1	0		
## 2	0	0	0	0		0	0	0	0	0	0	0	0		
## 3	0	0	0	0		0	0	0	0	0	0	0	0		
## 4	0	0	0	0		0	0	0	0	0	0	0	0		
## 5	0	0	0	0		0	0	0	0	0	1	1	0		
## 6	0	0	0	0		0	0	0	0	0	0	0	0		
##	AHR	KDR	FEN1	CAMK2D	RBL2	CALM1	MED10	SUMO1	CD44	DNM1	GRB7	TLE4	PRKCD	MMP9	SRC
## 1	0	1	0		1	0	0	0	0	0	0	0	1	0	0
## 2	0	0	0		1	0	0	0	0	0	0	0	0	1	0
## 3	0	0	0		0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0		1	0	1	0	0	0	0	0	0	0	0
## 5	0	0	0		0	0	1	0	0	1	0	0	1	1	0
## 6	0	0	0		0	0	0	0	0	0	0	0	0	0	0
##	RPL36AL	GAB2	FGF7	TK1	TLR4	PRKG1	CENPC	SDC1	CHGA	SRC	EPAS1	CASP6	ARHGAP1		
## 1		1	1	0	1	0	0	0	0	1	0	0		1	
## 2		0	0	0	0	0	0	0	0	0	0	0		1	
## 3		0	0	0	0	0	0	0	0	0	0	0		1	
## 4		0	0	0	1	0	0	1	0	1	0	0		1	
## 5		0	0	0	1	0	0	1	0	1	0	0		1	
## 6		0	0	0	1	0	0	1	0	1	0	0		1	
##	ATP6V1E1	MPHOSPH6	ATG7	CSNK2A2	RAC1	RNF11	SLC9A3R1	NEDD4	MAPK14	PSMD11	E2F4				
## 1		0		0	0	1	0		1	1	1	0	1		
## 2		0		0	0	0	0		1	1	0	0	1		
## 3		0		0	0	1	0		1	0	0	0	1		
## 4		0		0	0	0	1		1	1	0	0	1		
## 5		0		0	0	0	1		1	1	0	0	1		
## 6		0		0	0	0	0		1	1	0	0	1		
##	PIK3R1	MAPK8IP3	PTMA	ZMIZ1	FANCC	MMP1	C3	PTPN18	PDLIM5	RPS6KA3	GOT2	GRB2			
## 1		0		1	1	1	0	0	1	1	0	1	1		
## 2		0		1	1	0	0	0	0	1	1	0	1	1	
## 3		0		0	1	1	0	0	0	0	0	1	0		
## 4		0		1	1	1	1	0	0	1	1	0	1	1	
## 5		0		1	1	1	1	0	0	1	1	0	1	1	
## 6		0		1	1	1	0	0	0	0	1	0	1	1	
##	SREK1	PLD2	ITGB1	VASP	VCP	SMAD3	UBR1	MAPK6	EZH2	CDH1	FBLN1	RASA1	RFC2	DLGAP2	
## 1		0	1	1	0	0	0	1	0	1	1	0	0	0	
## 2		0	0	1	0	0	0	0	0	1	1	1	0	0	
## 3		0	0	1	0	0	0	0	0	1	0	0	0	0	
## 4		0	1	1	0	0	0	0	0	1	1	0	0	0	
## 5		0	0	1	0	0	0	1	0	1	1	0	0	0	
## 6		0	0	1	0	0	0	0	0	1	0	0	0	0	
##	NECTIN3	SATB1	SHC1	LMNB1	PTPRC	CALCRL	TNFRSF10C	GSK3B	DLG1	PIN1	VTN	PTN			
## 1		0	1	1	0	0	0		1	1	1	1	1	1	
## 2		0	1	0	0	0	1		0	0	1	1	1	1	

## 3	0	1	0	0	0	0	0	0	0	0	0	1	0		
## 4	0	1	1	0	0	0	0	0	0	1	1	1	1		
## 5	0	1	1	0	0	0	0	0	0	1	1	1	1		
## 6	0	1	0	0	0	0	0	0	0	1	1	1	1		
##	TRMT2A	BRCA1	SPRED1	CNOT7	TRG	PALS2	APCS	NFATC2	SMAD3	EIF3G	MDM2	RTN3	CSNK2A1		
## 1	1	0	1	0	1	0	0	1	0	0	0	1	1		
## 2	1	0	0	0	0	0	0	1	0	1	0	1	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0		
## 4	1	0	0	0	1	0	0	0	0	1	0	1	1		
## 5	1	0	0	0	1	0	0	0	0	1	0	1	1		
## 6	1	0	0	0	0	0	0	0	0	1	0	1	1		
##	PER3	ZBTB16	SOX8	PUF60	MCM7	NFATC2	PML	GRB10	YWHAZ	RAB3B	TG	NCOA2	CD28	TRAF2	
## 1	0	0	1	0	1	1	1	0	0	1	0	1	0	0	
## 2	0	0	1	0	1	0	1	0	0	1	0	1	0	0	
## 3	0	0	0	0	1	0	0	1	0	0	0	1	0	0	
## 4	0	0	1	0	1	1	1	1	0	1	0	1	0	0	
## 5	0	0	1	0	1	1	1	1	0	1	0	1	0	0	
## 6	0	0	0	0	1	1	1	1	0	1	0	1	0	0	
##	MST1R	CTSB	BCAP31	HAND1	LUC7L2	TP53	GP1BA	NR3C1	TCF3	DNAJA1	TIFA	PN01	PXN		
## 1	1	1	0	0	1	0	1	0	0	1	1	1	1		
## 2	1	1	0	0	0	0	0	0	0	0	1	0	0		
## 3	0	0	0	0	0	0	0	0	0	1	1	0	0		
## 4	1	0	0	0	0	1	1	0	0	1	1	0	0		
## 5	1	0	0	0	1	1	1	0	0	1	1	0	0		
## 6	1	0	0	0	0	0	0	0	0	1	1	0	0		
##	HOMER1	PDGFRA	RER1	CRTC2	CST3	CDK5RAP2	FCGR1A	PPP1R8	TRIM37	CLU	KRT18	RXRA			
## 1	1	1	1	1	0	0	0	0	1	0	1	0			
## 2	1	1	1	1	0	0	0	0	0	0	1	0			
## 3	1	1	0	0	0	0	0	0	0	0	1	0			
## 4	1	1	1	1	0	0	0	0	0	0	1	0			
## 5	1	1	1	1	0	0	0	0	0	0	1	0			
## 6	1	1	1	1	0	0	0	0	0	0	1	0			
##	SMAD9	SOX10	ATP1A1	GABARAP	PIK3R1	DLG4	CDKN1A	DLG2	CLSTN1	PDZD2	TRIM32	NDN			
## 1	1	0	0	0	1	1	0	1	0	0	0	0			
## 2	1	0	0	0	1	0	0	0	0	0	0	0			
## 3	1	0	0	0	1	0	0	0	0	0	0	0			
## 4	1	0	0	0	1	0	0	1	0	0	0	0			
## 5	0	0	0	0	1	0	0	1	0	0	0	0			
## 6	1	0	0	0	1	0	0	1	0	0	0	0			
##	SOX10	ACTN2	TP63	FHL2	BAG6	NFYA	ITGB5	TK1	PRKCA	PRKD1	FOXO1	FYB1	LINGO1	RNPS1	
## 1	0	0	1	0	1	0	0	1	1	1	0	0	1	1	
## 2	0	0	0	0	1	0	0	1	0	1	0	0	1	1	
## 3	0	0	0	0	0	0	0	1	0	0	0	0	1	1	
## 4	0	0	0	0	0	0	0	1	0	1	0	0	1	1	
## 5	0	0	0	0	0	0	0	1	0	1	0	0	1	1	
## 6	0	0	0	0	0	0	0	1	0	0	0	0	1	1	
##	WWOX	CHP1	GOSR2	BMPR1B	CTNNB1	BARD1	ATP1B1	HSP90AA1	FAM118B	SYT9	SMPD3	NAGPA			
## 1	1	1	0	1	0	0	0	1	1	1	1	1			
## 2	0	0	0	1	0	0	0	1	0	1	0	1			
## 3	0	0	0	1	0	0	0	1	0	0	0	1			
## 4	1	0	0	1	0	0	0	1	0	1	0	1			
## 5	1	0	0	1	0	0	0	1	0	0	0	1			
## 6	1	0	0	1	0	0	0	1	0	0	0	1			
##	TGM2	FAM124B	ID2	DAXX	MSN	ESR1	IL18	PTN	TLR5	RCC1	TFE3	CDK2	JUN	SHC1	GNAI2

##	1	1	0	1	0	0	0	0	0	1	0	1	0	1	0	1
##	2	0	1	1	0	0	0	0	0	0	0	1	0	0	0	1
##	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
##	4	1	1	1	0	0	0	0	0	1	0	1	0	0	0	1
##	5	0	0	1	0	0	0	0	0	1	0	1	0	0	0	1
##	6	0	1	1	0	0	0	0	0	1	0	1	0	0	0	1
##		RIN2	BMPR1B	TLR2	UBE3A	GADD45G	PIAS4	PPM1G	PTPRN	FOXH1	DUSP7	PSMC5	GIT1			
##	1	1	1	0	1	0	0	1	1	0	0	1	1			
##	2	1	1	0	1	0	0	1	1	0	0	1	0			
##	3	0	0	0	0	0	0	1	1	0	0	1	0			
##	4	1	1	0	1	0	0	1	1	1	0	1	0			
##	5	1	1	0	1	0	0	1	1	1	0	1	0			
##	6	1	1	0	0	0	0	1	1	0	0	0	0			
##		KIAA0408	SPTAN1	CALM1	PDGFRB	TRAF2	DOK4	PSMD11	LILRB4	RGS1	GADD45G	LHB	PML			
##	1	0	0	1	0	0	0	1	0	1	1	1	0			
##	2	0	0	0	0	0	1	1	0	1	1	1	0			
##	3	0	0	0	0	0	0	0	0	1	1	1	0			
##	4	0	0	0	0	0	0	1	0	1	1	1	0			
##	5	0	0	1	1	1	0	1	0	1	1	1	0			
##	6	0	0	0	0	1	0	1	0	1	1	1	0			
##		TCEA2	SSTR4	MPRIIP	SOS2	EFNA1	ITPR1	PLSCR1	RAB11A	KDR	CCDC120	PSMC1	ACVR2B			
##	1	0	1	1	0	0	0	1	1	0	0	1	1			
##	2	0	1	1	0	0	0	0	1	0	0	1	0			
##	3	0	0	1	0	0	0	0	1	0	0	1	0			
##	4	0	1	1	0	0	0	1	1	0	0	1	1			
##	5	0	1	1	0	0	0	0	1	0	0	1	1			
##	6	0	1	1	0	0	0	0	1	0	0	1	0			
##		MCM7	OPRD1	FAF1	BID	PTPRF	MAPT	ID3	FGFR3	FEZ1	SRF	SP1	MAP6	PDZD2	MEX3B	TGFBR1
##	1	0	0	1	0	0	1	0	1	1	1	1	0	0	0	0
##	2	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
##	3	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
##	4	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
##	5	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
##	6	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0
##		ENG	USHBP1	PRKAA2	NLGN1	VCL	HNF4A	LUC7L3	BCL3	RAB5A	TRAF2	MAGEA11	VBP1	HTR2A		
##	1	1	0	1	1	1	0	0	1	0	0	1	0	0		
##	2	1	0	0	1	1	1	0	0	0	0	1	0	0		
##	3	1	0	0	1	1	0	0	0	0	0	0	0	0		
##	4	1	0	0	1	1	0	0	1	0	0	0	0	1		
##	5	1	0	0	1	1	0	0	1	0	0	1	0	1		
##	6	1	0	0	1	1	0	0	1	0	0	0	0	0		
##		MCM3	HTRA2	BRCA1	SMC1A	RGS7	KRTAP4-12	YY1AP1	RANBP9	EP300	PXN	FIBP	PTPRR	MX1		
##	1	0	0	1	0	1	1	1	1	1	1	1	0	0	1	
##	2	0	0	1	0	0	1	1	1	1	0	1	0	0	1	
##	3	0	0	0	0	0	1	1	1	1	0	1	0	0	0	
##	4	0	0	1	0	1	1	1	1	1	1	1	0	0	1	
##	5	0	0	1	0	1	1	1	1	1	1	1	0	0	1	
##	6	0	0	1	0	1	1	0	1	0	1	0	0	0	1	
##		ACTA1	DNM1	TK1	SOS1	BMPR1B	AIMP2	SYT1	IL33	PRKCD	PKN1	AKAP8	EEF1B2	SRC	PFKP	
##	1	1	1	1	0	0	0	0	1	0	1	1	0	0	1	
##	2	1	0	0	0	0	0	0	1	0	0	1	0	0	1	
##	3	1	0	0	0	0	0	0	1	0	0	1	0	0	0	
##	4	1	0	1	0	0	0	0	1	0	0	1	0	0	0	
##	5	1	0	1	0	0	0	0	0	0	0	1	0	0	1	

## 6	1	0	1	0	0	0	0	0	0	0	1	0	0	0
##	CELSR3	SRY	BCL2	HLA-DQA1	WDR77	AMHR2	STAM	CDKN1B	CBL	DDX20	HSP90AB1	F2R		
## 1	1	0	0		0	1	1	1	1	1		1	0	
## 2	0	1	0		0	1	1	1	1	0		1	0	
## 3	0	0	0		0	1	1	1	1	0		1	0	
## 4	1	0	0		0	1	1	1	1	1		1	0	
## 5	1	0	0		0	1	1	1	1	1		1	0	
## 6	1	0	0		0	1	1	1	1	1		1	0	
##	CLEC5A	GNB2	HMGB1	SERF2	ELOC	VAV1	RHOA	ITGA5	GPRASP2	TNNT1	IL1R1	AGT	CDH1	
## 1	1	1	1	1	0	0	0	1		0	1	0	0	0
## 2	0	1	0	1	0	0	0	1		0	1	0	0	0
## 3	0	1	0	0	0	0	0	0		0	1	0	0	0
## 4	0	1	1	1	0	0	0	1		0	1	0	0	0
## 5	0	1	1	1	0	0	0	1		0	1	0	0	0
## 6	0	1	0	0	0	0	0	1		0	1	0	0	0
##	HAND2	KLC1	PLCG2	TBL3	CLIC4	VTA1	CDK9	MCF2	FHL2	PTK2	MBIP	TRIP11	ATF7IP	NAGK
## 1	0	0	1	1	1	1	1	0	1	1	0		1	1
## 2	0	0	1	0	0	1	1	0	0	1	0		0	1
## 3	0	0	1	0	0	1	1	0	0	1	0		0	1
## 4	0	0	1	0	0	1	1	0	1	1	0		0	1
## 5	0	0	1	0	0	1	1	0	0	0	0		0	1
## 6	0	0	1	0	0	1	1	0	1	0	0		0	1
##	KAT2B	CEBPA	TRAF2	NACA	TGFBR3	VAPB	MDC1	PPP1R15A	SMN1	KPNB1	WWP2	DCTD	SMN1	
## 1	1	1	0	0		0	0		0	1	1	1	0	0
## 2	1	1	0	0		0	0		0	1	1	1	0	0
## 3	1	1	0	0		0	0		0	1	1	1	0	0
## 4	1	1	0	0		0	0		0	1	1	1	0	0
## 5	1	1	0	0		0	0		0	1	1	1	0	0
## 6	1	1	0	0		0	0		0	1	1	1	0	0
##	CCNC	KCNJ2	JUN	CPNE7	CDK1	FLNA	ENKD1	CDK1	HNRNPL	XRCC6	PAFAH1B1	FSHR	FADD	
## 1	1	0	1	1	1	1	0	0		0		0	0	0
## 2	0	1	1	0	1	1	0	0		0		0	0	0
## 3	0	0	1	0	1	0	0	0		0		0	0	0
## 4	0	0	1	1	1	1	0	0		0		0	0	1
## 5	0	1	1	0	1	1	0	0		0		0	0	1
## 6	0	0	1	0	1	1	0	0		0		0	0	1
##	GTF2B	RAMP3	BNIP3	ESR1	TNFRSF1A	CTNBN1	RAC1	GPC4	CEBPB	HMG2	SMAD2	TACC1		
## 1	0	1	0	0		0	0	0	0		1	1	0	
## 2	0	1	0	0		0	0	0	0	0	1	1	0	
## 3	0	0	0	0		0	0	0	0	0	0	1	0	
## 4	0	1	0	0		0	0	0	1	0	1	1	0	
## 5	0	1	0	0		0	0	0	1	0	0	1	0	
## 6	0	0	0	0		0	0	0	1	0	0	0	0	
##	CDC25A	CCR10	TRAF6	IGF1R	SNUPN	ESR1	EIF4G1	ADORA1	TGM2	ERBB3	DNAJA3	CSNK2B		
## 1	1	0	1	0	1	1	1	1	1	1	1	1	0	
## 2	1	0	1	0	0	1	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	1	1	1	1	1	1	1	0	0	0	
## 5	0	0	1	0	1	1	0	1	1	1	0	0	0	
## 6	0	0	0	0	0	1	0	1	0	0	0	0	0	
##	GNAO1	NA	NCK1	TGFB1I1	LSM1	ACTG1	XRCC6	YWHAG	RAF1	IL1RL1	PRTN3	HDHD2	GRB7	
## 1	0	0	1		0	0	0	1	0	0		1	0	1
## 2	0	0	1		0	0	0	1	0	0		0	0	0
## 3	0	0	1		0	0	0	0	0	0		0	0	0

## 4	0	0	1	0	0	0	1	0	0	0	0	0	1
## 5	0	0	1	0	0	0	1	0	0	0	0	0	1
## 6	0	0	1	0	0	0	1	0	0	0	0	0	0
##	CSTA	ZNF446	CD19	GADD45A	RAB3A	TGOLN2	YWHAZ	ATXN1	ORC4	LYN	BMX	CLNS1A	UBQLN4
## 1	0	1	1	1	1	1	0	1	0	1	1	0	0
## 2	0	1	0	0	0	0	0	1	1	1	0	0	0
## 3	0	0	0	0	0	0	0	1	0	1	0	0	0
## 4	0	1	1	0	0	0	0	1	1	1	0	0	0
## 5	0	1	1	1	0	0	0	1	1	1	0	0	0
## 6	0	1	1	0	0	0	0	1	0	1	0	0	0
##	HDAC9	KCNJ12	DYNLL2	YWHAB	FANCL	CASP8	RIC8B	SLC35F6	TGM2	UBE2E2	MAP3K11	CD36	
## 1	0	0	0	1	1	0	1	0	1	0	1	1	1
## 2	0	0	0	1	1	0	1	0	1	0	1	0	0
## 3	0	0	0	1	1	0	1	0	1	0	1	0	0
## 4	0	1	0	1	1	0	1	0	1	0	1	0	0
## 5	0	1	0	1	1	0	1	0	0	0	1	0	0
## 6	0	1	0	1	1	0	1	0	0	0	1	0	0
##	YWHAZ	TRAF3	SERBP1	RAB8A	SLC9A3R1	DDX24	CDC37	CREB1	ROBO1	MED31	NROB2	IL18R1	
## 1	1	1	0	1	1	1	1	0	0	0	1	0	0
## 2	1	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	0	0	1	0	1	0	0	0	0	0	0
## 5	1	1	0	0	1	0	1	0	0	0	0	0	0
## 6	1	1	0	0	1	0	1	0	0	0	0	0	0
##	PRKCZ	XIAP	ITGA3	UBE2V2	CCR3	FGF23	RAD54B	PSEN1	MET	YWHAG	SPACA9	PSMD11	MCC
## 1	1	0	0	0	0	1	0	1	1	0	0	1	0
## 2	1	0	0	1	0	0	0	0	0	0	0	1	0
## 3	0	0	0	0	0	1	0	0	1	0	0	1	0
## 4	0	0	0	0	0	1	0	1	1	0	0	1	1
## 5	1	0	0	0	0	1	0	1	0	0	0	1	1
## 6	0	0	0	1	0	1	0	1	1	0	0	1	1
##	CAV2	RRAS2	KPNB1	IL21R	AURKA	CALM1	ITPKC	CEP126	SCAND1	TRAF3	ANXA2	STRADB	
## 1	1	1	1	0	0	1	0	0	1	1	0	1	1
## 2	1	1	1	0	0	0	0	0	1	0	0	1	1
## 3	1	0	1	0	0	0	0	0	1	0	0	0	0
## 4	1	1	1	0	0	0	0	0	1	0	0	1	1
## 5	1	1	1	0	0	0	0	0	0	1	0	0	0
## 6	1	1	1	0	0	0	0	0	0	0	0	0	0
##	RTN4	TNFRSF1A	TACC2	RAF1	VCL	CTSG	COL4A2	COL4A3	TSC22D1	UNC119	MAD2L2	GATA2	
## 1	0	0	1	0	1	0	0	0	0	1	0	1	1
## 2	0	0	0	0	0	0	0	0	0	1	0	1	1
## 3	0	0	0	0	0	0	0	0	0	1	0	1	1
## 4	0	0	1	0	1	0	0	0	0	1	0	1	1
## 5	0	0	1	0	1	0	0	0	0	1	0	1	1
## 6	0	0	1	0	0	0	0	0	1	1	0	1	1
##	BRCA2	MAPK6	HES1	COL4A3	TREX2	MAPK8	GRAP2	TSPAN4	HTR3A	SOS1	DNM1	TBCD	LCK
## 1	0	0	0	0	0	1	0	0	0	0	0	0	0
## 2	0	0	0	0	1	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	1	0	1	0	0	0	0	0	0
## 5	0	0	0	1	1	0	1	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0
##	TRIM46	WEE1	CRMP1	EID3	SRC	PRKCB	BEX3	DDX20	BEX3	EPB41L1	SKP2	NCK1	EEF1G
## 1	0	0	1	0	0	0	0	0	0	1	0	1	1

## 2	0	0	0	0	0	0	0	0	0	0	0	1	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	0	0	0	0	0	0	1	1
## 5	1	0	0	0	0	0	0	0	0	0	0	1	1
## 6	1	0	0	0	0	0	0	0	0	0	0	1	1
##	HIPK3	APBA1	SH3GLB2	HIPK3	PRKACA	PARD6B	DDX39A	PAX6	TUBB2B	SNCA	CD4	SMAD7	
## 1	1	0	0	0	0	0	0	0	0	0	0	1	1
## 2	1	0	1	0	0	0	0	0	0	0	0	1	1
## 3	1	0	0	0	0	0	0	0	0	0	0	1	1
## 4	1	0	1	0	0	0	0	0	0	0	0	1	1
## 5	1	0	0	0	0	0	0	0	0	0	0	1	1
## 6	1	0	0	0	0	0	0	0	0	0	0	1	1
##	ITGA4	GAK	SIGIRR	BEND5	GRIA1	NSG2	CEBPB	PIK3R1	CSF2RB	TAB1	HDAC4	LMNA	SDC1
## 1	0	1	0	0	0	0	1	0	0	1	1	1	0
## 2	0	1	0	0	0	0	1	0	0	0	1	1	0
## 3	0	1	0	0	0	0	1	0	0	0	0	1	0
## 4	0	1	0	0	0	0	1	0	0	0	1	1	1
## 5	0	1	0	0	0	0	1	0	0	1	1	1	1
## 6	0	1	0	0	0	0	1	0	0	0	0	1	0
##	HNRNP3	TOMM70	MBP	ATXN7	FEZ1	PIN1	CARD14	ESR2	CXCR4	PTPN6	ARHGDIB	TARDBP	
## 1	1	0	0	0	1	0	1	0	1	1	0	0	
## 2	1	0	0	0	1	0	1	0	1	0	0	0	
## 3	1	0	0	0	1	0	1	0	0	1	0	0	
## 4	1	0	0	0	1	1	1	1	1	0	0	0	
## 5	1	0	0	0	1	0	1	0	1	0	0	0	
## 6	1	0	0	0	1	0	1	0	1	0	0	0	
##	CCND1	AR	KRTAP4-12	COL7A1	GCC1	PPP1R9B	SH3GL2	RASGRP2	IL10RA	MAP3K5	HOXA9		
## 1	1	1	0	0	0	1	1	0	0	0	0	0	
## 2	1	1	0	0	0	0	0	0	0	0	0	1	
## 3	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	0	0	0	1	0	0	0	0	0	
## 5	1	1	0	0	0	0	1	0	0	0	0	0	
## 6	1	1	0	0	0	0	1	0	0	0	0	0	
##	CLIC1	FLT1	TP53	CRMP1	SRRM1	ACTC1	EPRS1	PRKCG	LMNB1	TUBB2B	CTNNB1	EWSR1	BAD
## 1	0	0	1	0	1	1	1	1	0	1	1	1	0
## 2	0	0	1	0	0	1	1	0	0	0	0	1	0
## 3	0	0	1	0	0	0	0	0	0	0	0	1	0
## 4	0	0	1	0	0	1	1	0	0	1	0	1	0
## 5	0	0	1	0	0	1	1	0	0	1	0	1	1
## 6	0	0	1	0	0	1	1	0	0	1	0	1	0
##	SMC5	MAGED1	ABHD16A	ACTN1	CLEC3B	CRMP1	FOXO3	AKAP7	SLC35F6	HSPA8	GABRG2	ACKR2	
## 1	0	0	1	1	0	1	1	0	1	1	0	0	
## 2	0	0	1	0	0	1	1	0	1	1	0	0	
## 3	0	0	1	0	0	0	1	0	1	1	0	0	
## 4	0	0	1	1	0	1	1	0	1	1	0	0	
## 5	0	0	1	1	0	1	1	0	1	1	1	0	
## 6	0	0	1	0	0	1	1	0	1	1	0	0	
##	PIK3R1	CDK1	CSNK2A1	FOS	HMGB1	KIR2DL2	SCFD1	ERG28	AKT1	STAT1	MMP2	PLCG2	
## 1	0	1	1	0	0	0	1	1	1	1	1	0	
## 2	0	1	1	0	0	0	1	1	0	1	1	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	1	0	0	1	1	0	0	1	1	0	
## 5	0	1	1	0	0	1	1	0	0	1	1	0	
## 6	0	1	1	0	0	0	1	0	0	1	1	0	

##	BDKRB2	KLF4	SORL1	AURKB	SYK	CASP1	EEF1A1	STAT3	MBL2	ZHX1	BMPR1B	NR2E3	AGTR2	
## 1	0	0	1	1	0	1	0	0	1	0	0	1	1	
## 2	0	0	1	1	0	0	0	0	1	0	0	1	1	
## 3	0	0	0	1	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	1	0	0	0	0	1	0	0	1	1	
## 5	0	0	1	1	0	1	0	0	1	0	0	1	1	
## 6	0	0	0	1	0	0	0	0	1	1	0	1	1	
##	MAPK6	RANBP9	TUBA3C	PDGFRA	PEX5	CSNK2A1	JAK1	ABI1	CDK2	GAPDH	PIK3R2	NFIC		
## 1	1	0	1	1	1	0	1	1	1	1	0	1		
## 2	0	0	1	0	1	0	1	0	1	1	0	1		
## 3	0	0	1	0	0	0	0	0	1	0	0	1		
## 4	0	0	1	0	1	0	0	0	1	1	1	1		
## 5	1	0	1	0	0	0	0	0	1	1	0	1		
## 6	0	0	1	0	1	0	0	0	1	1	0	1		
##	CDKN1A	THOP1	MAP3K14	SRF	CALM1	CDK4	PPP5C	YY1	PRKG1	HRAS	PIAS2	DLGAP2	CCL7	
## 1	0	1	1	1	1	0	1	1	1	1	1	1	0	
## 2	0	1	1	1	0	0	1	1	0	1	0	1	0	
## 3	0	1	1	1	0	0	1	0	0	1	0	0	0	
## 4	0	1	1	1	0	0	1	1	1	1	1	1	0	
## 5	0	1	1	1	0	0	1	1	0	1	1	1	0	
## 6	0	1	1	1	0	0	1	1	0	1	1	0	0	
##	MMP3	SNRPD3	ITGB7	MAP1LC3A	FBXW7	GSK3B	DLG1	AR	IPO5	CXCL2	MYL6	NR1H2	CSF3R	
## 1	1	1	1	0	0	1	0	1	1	1	0	0	0	
## 2	1	0	1	0	0	1	0	0	0	1	0	0	0	
## 3	0	0	0	0	0	1	0	0	0	1	0	0	0	
## 4	1	0	0	0	0	1	0	1	1	1	0	0	0	
## 5	1	0	1	0	0	1	0	1	1	1	0	0	0	
## 6	1	0	1	0	0	1	0	1	0	1	0	0	0	
##	STAP1	TK1	STAT3	APP	BMPR1A	OCLN	EP300	VCP	TNFRSF1A	BAZ1B	FGFR1	GNAS	PA2G4	
## 1	0	1	1	1	1	0	1	1	0	0	0	0	0	
## 2	0	1	0	1	0	0	1	0	0	0	0	0	0	
## 3	0	1	0	1	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	1	0	0	0	0	0	0	0	0	0	
## 5	0	1	0	1	0	0	0	0	0	0	0	0	0	
## 6	0	1	0	1	0	0	0	0	0	0	0	0	0	
##	SMN2	WNT3A	HNF1A	ERBIN	GIT1	ERH	HRH4	CALM1	FZD7	IGF1R	KPNA1	HIPK3	SNX2	
## 1	0	0	0	1	0	0	1	1	0	0	0	1	0	
## 2	0	0	0	0	1	0	0	1	0	0	0	1	0	
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	0	0	1	0	1	1	0	0	0	1	0	
## 5	0	0	0	0	1	0	0	1	0	0	0	1	0	
## 6	0	0	0	0	0	0	0	1	0	0	0	1	0	
##	CFAP206	SNRNP70	SRC	RUNX2	RRAD	EIF2S2	EIF3D	TDG	FYN	WWP2	MAFF	MYO6	WAS	UBA52
## 1	1	0	0	1	0	0	0	0	0	0	1	0	1	0
## 2	1	0	0	0	0	0	0	0	0	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
## 4	1	0	0	1	0	1	0	0	0	1	0	1	0	0
## 5	1	0	0	1	0	1	0	0	0	1	0	1	0	0
## 6	1	0	0	1	0	0	0	0	0	0	0	0	0	0
##	LYN	RPS10	PLCG1	PPP3CA	ANXA2	CTBP1	NOA1	NCOR1	HBP1	KIF1C	SPEN	LUC7L2	MT-CO1	
## 1	0	1	1	0	0	1	0	0	0	1	1	0	1	
## 2	0	0	0	0	0	0	0	0	0	1	1	0	1	
## 3	0	0	0	0	0	1	0	0	0	0	1	0	0	
## 4	0	0	1	0	0	1	0	0	0	1	0	0	1	

## 5	0	0	0	0	0	0	0	0	0	1	1	0	1
## 6	0	0	0	0	0	0	0	0	0	1	1	0	0
##	AP2A1	TBL1X	TOE1	RPP14	TNFRSF11A	CTBP1	GBP2	ICMT	PICK1	PIK3R1	MAP1A	CRK	TERT
## 1	1	0	1	1		0	1	0	0	1	0	0	0
## 2	1	0	0	0		0	1	0	0	1	0	0	1
## 3	0	0	0	0		0	1	0	0	1	0	0	0
## 4	1	0	0	1		0	1	0	0	1	0	0	1
## 5	1	0	0	0		0	1	0	0	1	0	0	1
## 6	0	0	0	0		0	1	0	0	1	0	0	1
##	EEF1A1	PFN2	PDGFRA	SYNJ1	TGFB1	PIAS1	YAP1	DST	ZNF24	MYB	FAS	GRB10	CCR5
## 1	0	0	0	1	0	1	1	1	0	0	0	0	0
## 2	0	0	0	0	0	1	1	0	0	0	0	0	0
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0
## 4	0	0	0	0	0	1	1	1	0	0	0	0	0
## 5	0	0	0	0	0	1	1	1	0	0	0	0	0
## 6	0	0	0	0	0	1	1	1	0	0	0	0	0
##	ARHGAP1	NUMBL	TNIP1	BAG6	HGS	EIF4A2	CDC16	MDFI	GADD45G	WDCP	CD79B	UPF3B	GHR
## 1	0	0	1	0	0	1	1	0	1	1	0	0	0
## 2	0	0	1	0	0	1	1	0	1	1	0	0	0
## 3	0	0	0	0	0	1	0	0	1	0	0	0	0
## 4	0	0	1	0	0	1	1	0	1	1	0	1	0
## 5	0	0	1	0	0	1	1	0	1	1	0	1	0
## 6	0	0	0	0	0	1	1	0	1	0	0	0	0
##	PIK3CD	PRPF40A	PSEN1	PML	MAPT	LPXN	CALM2	CFLAR	DUSP4	LSM1	SOCS6	SCARB1	F13A1
## 1	1	0	0	1	1	1	0	1	1	0	0	1	1
## 2	0	0	0	1	0	1	0	1	0	0	0	1	1
## 3	0	0	0	0	0	0	0	1	1	0	0	1	0
## 4	1	0	0	1	0	1	0	1	0	0	0	1	0
## 5	1	0	0	1	0	1	0	1	0	0	0	1	0
## 6	1	0	0	1	0	0	0	1	0	0	0	1	0
##	CRHR2	MRPL44	OSGEP	SET	RASA3	MAPK8IP2	ATXN3	MAP2K2	MYO6	MAP3K3	DES	GMEB2	MC3R
## 1	0	1	0	1	1		1	1	0	1	0	0	1
## 2	0	1	0	0	0		0	1	0	0	0	0	1
## 3	0	1	0	0	1		1	0	0	1	0	0	0
## 4	0	1	0	1	1		0	0	0	0	0	0	1
## 5	0	1	0	1	1		1	0	0	1	0	0	1
## 6	0	1	0	1	1		1	0	0	0	0	0	1
##	ADAM10	NRXN1	FLNA	POLR2M	BEGAIN	CREBBP	SMAD4	ERBB3	ZNF579	GPRASP1	RALGDS	CD44	
## 1	0	0	0	1	0	0	0	1	0		1	0	0
## 2	0	0	0	1	0	0	0	1	0		1	0	0
## 3	0	0	0	0	0	0	0	0	0		0	0	0
## 4	0	1	0	1	0	0	1	1	0		0	0	0
## 5	0	1	0	1	0	0	1	1	1		0	0	0
## 6	0	0	0	1	0	0	0	1	0		0	0	0
##	HAX1	BCL2	PDGFRA	SETDB1	PRDX1	PTPRD	PIK3R1	P2RY2	TNIP1	NGFR	CPSF1	NRF1	ZNF184
## 1	0	0	0	0	0		1	1	0	1	0	0	0
## 2	0	0	0	0	1		0	1	0	0	0	0	0
## 3	0	0	0	0	0		0	0	0	0	0	0	0
## 4	0	1	0	0	0		1	1	0	0	0	0	0
## 5	0	1	0	0	1		0	1	0	1	0	0	0
## 6	0	0	0	0	1		0	1	0	0	0	0	0
##	TRAF6	IL2RB	CBL	RPS6KA6	ATF7IP2	ASAP1	BCL6	RGS19	ACTA1	SNW1	TRAF2	BTBD2	
## 1	0	0	0	0	1	1	1	1	1	0	0	1	
## 2	1	0	0	0	1	1	1	0	0	0	0	1	

## 3	0	0	0	0	1	1	1	1	0	0	0	1			
## 4	0	0	0	0	1	1	1	1	0	0	0	1			
## 5	1	0	0	0	1	1	1	1	0	0	0	1			
## 6	1	0	0	0	1	1	1	1	0	0	0	1			
##	S100A1	CSTF2	NAT9	PMEPA1	RNF11	ARL4D	NDUFS2	CRMP1	TK1	PXN	NR3C1	MAPK6	RGS1		
## 1	0	1	1	1	0	0	0	0	0	1	1	0	0		
## 2	0	1	1	1	0	0	0	0	0	1	0	0	0		
## 3	0	1	0	1	0	0	0	0	0	0	0	0	0		
## 4	0	1	1	1	0	0	0	0	0	1	0	0	0		
## 5	0	1	1	1	0	0	0	0	0	1	0	0	0		
## 6	0	1	1	1	0	0	0	0	0	0	0	0	0		
##	CBL	DAPK1	PLK1	EIF6	PFN2	PTPN6	AKT1	MYO16	PRKAR1A	GRIN2D	MMP14	AP2B1	LRP2		
## 1	0	1	0	0	1	0	1	0	0	0	0	0	0		
## 2	0	1	0	0	1	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	1	0	0	0	0	0	0	0	0		
## 4	1	1	1	0	1	1	0	0	0	0	0	0	0		
## 5	1	1	1	0	1	1	0	0	0	0	0	0	0		
## 6	1	1	1	0	1	1	0	0	0	0	0	0	0		
##	HNRNPD	TNFRSF17	CALCOCO2	RALYL	LRIF1	SH3GLB1	PDGFRB	PKM	TERT	CLNS1A	HECTD1				
## 1	0	1	1	1	1	0	0	0	0	0	0	0	0		
## 2	0	0	0	1	0	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	1	0	0	0	0	0	0	0	0		
## 4	0	1	0	1	1	0	0	0	0	0	0	1	1		
## 5	0	1	0	1	1	0	0	0	0	0	0	1	1		
## 6	0	0	0	1	0	0	0	0	0	0	0	1	1		
##	CD81	ZBTB16	CETN3	ACTL6A	IGFBP5	SRSF4	CAV2	MAP3K5	RABAC1	RGS2	GTF2H1	TGFBR3			
## 1	0	0	0	1	1	1	1	1	0	1	0	0	0		
## 2	0	0	0	1	0	1	0	1	0	1	0	0	0		
## 3	0	0	0	0	0	1	0	1	0	1	0	0	0		
## 4	0	0	0	0	1	1	0	1	0	1	0	0	0		
## 5	0	0	0	0	1	1	0	1	0	1	0	0	0		
## 6	0	1	0	0	0	1	0	1	0	1	0	0	0		
##	RBM48	NR3C1	ACTC1	POU2F1	PNRC1	PBX1	STAMPB	PRKCD	ATF7IP	RBM48	ABCA1	CHAT			
## 1	0	0	1	1	0	1	1	0	0	1	1	1	1		
## 2	0	0	0	1	0	1	0	0	0	1	1	0	0		
## 3	0	0	1	1	0	0	0	0	0	1	0	0	0		
## 4	0	0	1	1	0	1	1	0	0	1	1	1	1		
## 5	0	0	0	1	0	1	1	0	0	1	1	1	1		
## 6	0	0	0	1	0	1	1	0	0	1	1	1	1		
##	MAPK1	KIT	UBQLN1	NTRK1	CDC25A	CBFA2T3	RAC1	EGFR	RELA	EPHA3	HDAC3	RELA	HDAC1		
## 1	0	1	1	1	1	0	0	0	1	0	1	0	0		
## 2	0	0	0	1	0	0	0	0	0	0	1	0	1		
## 3	0	0	0	1	0	0	0	0	0	0	1	0	0		
## 4	0	1	1	1	0	0	0	0	0	0	1	0	1		
## 5	0	1	1	1	1	0	0	0	0	0	1	0	1		
## 6	0	0	0	0	0	0	0	0	0	0	1	0	1		
##	CSNK1A1	EP300	ITGB5	CAV1	DYNLL1	CALM1	CEBPE	ARHGDIB	SCYL1	SH2D3A	MAGEA4				
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0		
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0		
## 4	0	0	0	0	0	0	0	1	0	0	0	0	0		
## 5	0	0	0	0	0	0	0	1	0	0	0	0	0		
## 6	0	0	0	0	0	0	0	1	0	0	0	0	0		
##	ANTKMT	TNFRSF8	GRM3	BLK	JUNB	UBB	NAPA	FGF7	HSPA8	TOB1	FHL2	TTR	NGFR	FHL2	SGTA

## 1	0	0	0	0	0	1	1	1	0	1	1	1	1	0	1
## 2	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0
## 3	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0
## 4	1	0	0	0	0	1	0	1	1	0	1	1	1	0	0
## 5	1	0	0	0	0	1	0	1	0	0	1	1	1	0	0
## 6	1	0	0	0	0	1	0	1	1	0	1	0	1	0	0
##	EP300	DRD1	NCL	ITPKB	GADD45A	SMAD2	KCNJ9	ASGR1	NCOR2	HTR1D	MTMR9	CHMP3	TGFBR1		
## 1	0	1	0	0	1	1	1	1	0	0	0	0	0	0	
## 2	0	1	0	0	1	0	1	0	0	0	0	0	0	0	
## 3	0	0	0	0	1	0	1	1	0	0	0	0	0	0	
## 4	0	1	0	0	1	1	1	1	0	0	1	0	0	0	
## 5	0	1	0	0	1	1	1	1	0	0	0	0	0	0	
## 6	0	1	0	0	1	0	1	1	0	0	0	0	0	0	
##	BCL10	GTF2I	COL1A1	TOB1	CCL2	EEF1G	RORA	WEE1	DCTN1	SPTBN2	SMAD9	FYB1	ATXN1		
## 1	1	0	1	1	0	0	1	0	1	0	1	0	0	0	
## 2	1	0	1	1	0	0	1	0	1	0	0	0	0	0	
## 3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	
## 4	1	0	1	1	0	0	1	0	1	0	0	0	0	0	
## 5	1	0	1	1	0	0	1	0	1	0	0	0	0	0	
## 6	1	0	1	1	0	0	1	0	1	0	0	0	0	0	
##	ACTA1	ACKR2	POU3F4	TAB1	AKT1	PPARA	SMN1	NA	DHX16	MYO5A	SUV39H1	PRNP	EPB41L2		
## 1	0	0	1	1	1	1	0	1	0	1	0	1	0	0	
## 2	0	0	0	0	1	0	0	1	0	1	0	0	0	0	
## 3	0	0	0	0	1	0	0	1	0	0	0	0	0	0	
## 4	0	0	0	0	1	1	0	1	0	1	0	1	1	1	
## 5	0	0	0	0	1	1	0	1	0	1	0	1	1	1	
## 6	0	0	0	0	1	1	0	1	0	1	0	1	1	1	
##	TAB2	ABHD16A	MAGEA1	CEP126	POU2F1	FOXO4	FANCA	PDPK1	RFC1	REPS2	SQSTM1	PTPN2			
## 1	0	0	1	0	0	0	1	1	1	0	0	0	0	0	
## 2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	
## 3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	1	0	0	0	0	0	1	1	0	0	0	0	
## 5	0	0	1	0	0	0	0	1	1	1	0	0	0	0	
## 6	0	0	1	0	0	0	0	0	1	0	0	0	0	0	
##	NGEF	YWHAZ	GRB7	CDX2	CDK5	FAM118B	MCM3AP	HR	GAPDH	NR2F1	ITGB4	GRB2	GBP2	TGFBI	
## 1	1	0	0	1	1	0	1	1	0	0	1	0	1	0	
## 2	1	0	0	0	1	0	1	1	0	0	1	0	0	0	
## 3	1	0	0	0	0	0	1	0	0	0	1	0	0	0	
## 4	1	0	0	1	1	0	1	1	0	1	1	0	1	0	
## 5	1	0	0	1	1	0	1	1	0	0	1	0	1	0	
## 6	1	0	0	0	0	0	1	1	0	0	1	0	1	0	
##	MRPS12	GDA	ESR1	LPA	RPS19	HSPA4	TCF3	LRP1B	VIM	NADK	GPS2	ANXA11	GNAZ	BMP3	
## 1	0	0	0	0	0	0	0	0	1	1	1	0	1	0	
## 2	0	0	0	0	1	0	0	0	1	1	1	0	1	0	
## 3	0	0	0	0	0	0	0	0	1	1	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	1	1	0	0	1	1	
## 5	0	0	0	0	0	0	0	0	1	1	0	0	0	1	
## 6	0	0	0	0	0	0	0	0	1	1	0	0	0	1	
##	TSC2	XRCC5	STAT3	CCDC85B	DDR2	A2M	TGFBR1	PSMC2	HCRT	CDK1	NOTCH2	XP01	SPINK7		
## 1	1	1	0	1	1	1	1	0	0	1	0	1	1	0	
## 2	1	1	0	1	0	1	0	0	0	1	0	1	0	0	
## 3	1	1	0	0	1	1	0	0	0	1	0	0	0	0	
## 4	1	1	0	1	1	1	0	0	0	1	0	1	1	1	
## 5	1	1	0	1	1	1	0	0	0	1	0	1	1	1	

## 6	1	1	0	0	0	1	0	0	0	1	0	0	1	
##	LSM8	IFNAR2	PPP1R9A	CASP8	PACSIN3	PTPN11	A2M	TK1	ID2	ACACA	PRKAR1A	LCK	ELANE	
## 1	0	1	1	1	0	1	0	1	0	0	0	1	0	
## 2	0	0	0	0	0	1	0	1	0	0	0	1	0	
## 3	0	0	0	1	0	1	0	1	0	0	0	0	0	
## 4	0	0	0	1	0	1	0	1	0	0	0	1	0	
## 5	0	0	0	1	0	1	0	1	0	0	0	1	0	
## 6	0	0	0	0	0	1	0	1	0	0	0	1	0	
##	AKT1	CDK5	PRKCA	TRIM11	ATF4	TP53	FBN3	TIMM50	CD36	XRCC6	GRAP2	DYNLT1	LYN	SKIL
## 1	1	0	1	1	1	1	1	1	0	0	1	1	1	0
## 2	1	1	1	1	1	1	1	1	0	0	1	1	0	1
## 3	1	0	1	1	1	1	1	1	0	0	1	1	0	0
## 4	1	1	1	1	1	1	1	1	0	0	1	1	0	0
## 5	1	1	1	1	1	1	1	1	0	0	1	1	0	0
## 6	1	1	1	1	1	1	1	1	0	0	0	1	0	0
##	NOTCH2	PPBP	HTR2A	LYN	WRN	SUMO3	CDK1	CDKN1A	PIAS1	PIN1	F2R	CXCR1	BRCA1	PLSCR1
## 1	1	1	0	0	0	1	0	0	0	1	1	1	0	0
## 2	1	0	0	0	0	1	0	0	0	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	0	0	0	1	0	0	0	1	1	0	0	0
## 5	1	0	0	0	0	1	0	0	0	1	1	0	0	0
## 6	1	0	0	0	0	1	0	0	0	0	1	0	0	0
##	PFN2	UBE2A	PXN	MAPK6	C8orf33	STAMPB	TP53	CCDC85B	TMSB4X	RPA2	AXL	RBMX	DNAJA1	
## 1	0	1	1	1	1	0	1	1	0	1	0	1	1	
## 2	0	1	1	0	1	0	1	1	1	1	1	1	0	
## 3	0	0	1	0	1	0	1	0	0	0	0	1	0	
## 4	0	1	1	1	1	0	1	1	0	0	0	1	0	
## 5	0	0	1	1	1	1	1	0	0	0	0	1	0	
## 6	0	0	1	0	1	0	1	0	0	0	0	1	0	
##	PDGFRA	GRIK1	WAS	KITLG	TGFBR3	CASP6	HOXB1	NCOR2	PLCG1	EPHA2	ID1	PVR	PXN	PHC1
## 1	0	1	0	1	0	0	1	0	0	0	1	0	0	0
## 2	0	1	0	1	0	0	1	0	0	0	0	0	0	0
## 3	0	0	0	1	0	0	1	0	0	0	1	0	0	0
## 4	0	1	0	1	0	0	1	0	0	0	1	0	0	0
## 5	0	1	0	1	0	0	1	0	0	0	1	0	0	0
## 6	0	1	0	1	0	0	1	0	0	0	1	0	0	0
##	GNAO1	SDC4	DRD4	ITGB4	GHRL	SRSF2	PDGFRB	ITPKA	SELL	EPHB6	SMAD4	DYNLT3	CPSF1	
## 1	0	1	0	1	0	1	1	1	0	1	1	0	1	
## 2	0	1	0	1	0	0	1	1	0	0	1	0	1	
## 3	0	1	0	1	0	0	1	1	1	0	0	0	0	
## 4	0	1	0	1	0	0	1	1	0	0	1	0	1	
## 5	0	1	0	1	0	0	1	1	0	0	1	0	1	
## 6	0	1	0	1	0	0	1	1	0	0	1	0	1	
##	MOAP1	PTPRJ	GSK3B	PTK2B	KLRD1	PRKCD	NRTN	VIM	MAPK13	CDK2	KLRK1	CDH15	NMT1	
## 1	1	1	0	0	0	0	0	0	1	0	0	0	1	
## 2	0	1	0	0	0	0	0	0	1	0	0	1	0	
## 3	0	1	0	0	0	0	0	0	1	0	0	1	0	
## 4	0	1	0	0	0	0	0	0	1	0	0	0	0	
## 5	0	1	0	0	0	0	0	0	1	0	0	0	1	
## 6	0	0	0	0	0	0	0	0	1	0	0	0	0	
##	GNAO1	SNW1	MAG	UBE2W	ARHGEF11	MERTK	BLNK	NPR3	PIK3R1	SH3GL2	AKT1	CARD11		
## 1	0	1	1	0	0	0	1	1	0	1	0	1		
## 2	0	0	1	0	0	0	1	0	0	1	0	1		
## 3	0	0	1	0	0	0	1	0	0	1	0	1		

## 4	0	0	1	0	0	0	1	1	0	1	0	1		
## 5	0	0	1	0	0	0	1	0	0	1	0	1		
## 6	0	0	1	0	0	0	1	0	0	1	0	0		
##	PTPN11	RAPGEF3	MAX	TCF20	SORBS2	FMNL1	CPE	NAIP	HSP90AA1	USP54	BMPR1A	CREBBP		
## 1	0	1	1	1	1	1	0	0	1	1	0	1		
## 2	0	0	0	1	0	1	0	0	1	1	0	1		
## 3	0	0	0	1	0	0	0	0	1	1	0	1		
## 4	0	0	0	1	0	1	0	0	1	1	0	1		
## 5	0	0	1	1	0	1	0	0	1	1	0	1		
## 6	0	0	1	1	0	1	0	0	1	0	0	1		
##	RAC1	ABL1	GFAP	TSC22D1	RTN3	UBE4B	RTN4	KCNJ4	EFEMP2	UNC119	LSM6	SPOP	PTPN6	
## 1	0	0	1	0	0	1	1	0	0	0	0	1	0	
## 2	0	0	1	0	1	1	1	0	0	0	0	1	0	
## 3	0	0	1	0	0	0	0	0	0	0	0	1	0	
## 4	0	0	1	0	0	1	1	0	0	0	0	1	0	
## 5	0	0	1	0	0	1	1	0	0	0	0	1	0	
## 6	0	0	1	0	0	0	1	0	0	0	0	1	0	
##	PCDHA4	EWSR1	CASP7	RB1	SPTB	KRTAP4-12	LCK	JAK1	SMAD4	RNF11	CCT7	CDC42	GNAO1	
## 1	0	1	0	0	1	1	0	1	1	1	0	1	0	
## 2	0	1	0	0	0	1	0	1	1	1	1	1	0	
## 3	0	1	0	0	0	1	0	1	0	1	0	1	0	
## 4	0	1	0	0	1	1	0	1	1	1	1	1	0	
## 5	0	1	1	0	1	1	0	1	1	1	1	1	0	
## 6	0	1	0	0	1	1	0	1	0	1	0	1	0	
##	GSTP1	ASF1A	TAL1	LRP5	RRAS2	PHAX	TRAF2	YWHAB	NCK2	PDGFRB	TP53	PIK3R1	ELANE	
## 1	1	0	1	1	1	0	0	0	1	1	1	1	0	
## 2	1	0	1	1	1	0	0	0	1	0	1	1	0	
## 3	0	0	1	1	1	0	0	0	0	0	0	0	0	
## 4	0	0	1	1	1	0	0	0	1	0	1	1	0	
## 5	0	0	1	1	1	0	0	0	1	0	1	1	0	
## 6	0	0	1	1	1	0	0	0	1	0	1	1	0	
##	CDKN1A	BANP	HOXC8	ARF6	YWHAG	MED14	SNCA	FAM107A	SYT5	ZNF579	GRB2	CDC37	CCL8	
## 1	1	0	1	0	0	0	1	1	0	0	1	1	0	
## 2	1	0	0	0	0	0	1	1	0	1	1	1	0	
## 3	0	0	0	0	0	0	1	1	0	0	1	0	0	
## 4	1	0	0	0	0	0	1	1	0	1	1	1	0	
## 5	1	1	1	0	0	0	1	1	0	0	1	1	0	
## 6	1	0	0	0	0	0	1	1	0	0	1	1	0	
##	CCR5	RANBP10	PSAP	PEG3	COPS6	CCL5	TLR6	PTN	TBXA2R	PTGS2	CAST	HRAS	SFN	HDAC3
## 1	0	1	0	1	0	1	1	0	1	1	0	1	0	1
## 2	1	1	0	1	0	1	0	0	1	1	0	1	0	0
## 3	0	0	0	0	0	1	0	0	1	0	0	1	0	0
## 4	0	0	0	1	0	1	0	1	1	1	0	1	0	0
## 5	0	0	0	0	0	1	0	0	1	0	0	1	0	0
## 6	0	0	0	0	0	1	0	0	1	0	0	1	0	0
##	MED8	MEP1A	CNTFR	HSPA1A	PDGFRB	POLA1	NLK	PXN	CASP14	TBP	RNF19A	FZD7	IQGAP1	
## 1	0	1	1	0	0	1	1	0	0	0	0	0	1	
## 2	0	1	1	0	0	0	1	0	0	0	0	0	1	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	1	
## 4	0	1	1	0	0	0	0	0	0	0	0	0	1	
## 5	0	1	1	0	0	0	0	0	0	0	0	0	1	
## 6	0	1	1	0	0	0	0	0	0	0	0	0	1	
##	TNFRSF21	TNFRSF11A	HTT	EPHA3	SHC1	GTF2B	MAP2K4	TASP1	PCGF2	CREM	DCN	CREBBP		
## 1	0	0	0	1	1	1	0	1	1	0	0	0		

## 2	0	0	0	1	1	0	0	1	1	0	0	0		
## 3	0	1	0	1	0	0	0	1	1	0	0	0		
## 4	0	0	1	1	1	1	0	1	1	0	0	0		
## 5	0	0	0	1	1	1	0	1	1	1	0	0		
## 6	0	0	0	1	1	0	0	1	1	0	0	0		
##	TCF3	HSPA5	DLG1	ATN1	SOX10	GOLGA2	TNFRSF6B	CALR	JUN	SPARC	KRAS	PLK1	CEP126	
## 1	1	1	0	0	1	0	1	0	0	1	1	1	0	
## 2	0	0	1	0	0	0	0	0	0	1	0	1	1	
## 3	0	0	0	0	0	0	0	0	0	1	0	1	0	
## 4	0	1	0	0	0	0	0	0	0	1	1	1	1	
## 5	0	1	0	0	0	0	0	0	0	1	1	1	0	
## 6	0	0	0	0	0	0	0	0	0	1	1	1	0	
##	VDR	CSF1R	CTNND1	CD93	PLCG2	FOXO1	DXO	GSN	PLCG1	RBP1	PDE6D	NEK2	RAE1	VPS33B
## 1	1	0	0	0	0	1	1	0	0	1	1	0	0	1
## 2	1	0	0	0	0	1	1	0	0	1	0	0	0	1
## 3	1	0	0	0	0	1	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	1	1	0	0	1	0	0	0	1
## 5	1	0	0	0	0	1	1	0	0	1	0	0	0	1
## 6	1	0	0	0	1	1	1	0	0	1	0	0	0	1
##	PRKAR2A	PLPP2	MATK	MAP1LC3B	BTK	NROB2	CDK5RAP2	SPEF1	RPGR	ABL1	CBL	NCOA1		
## 1	0	0	1	1	1	0	0	1	0	0	1	1		
## 2	0	0	1	0	1	0	0	0	0	0	1	0		
## 3	0	0	1	1	1	0	0	1	0	0	1	0		
## 4	0	0	1	1	1	0	1	1	0	1	1	1		
## 5	0	0	1	1	1	0	1	1	0	1	1	1		
## 6	0	0	1	1	1	0	0	1	0	0	1	1		
##	FBXO28	COL1A2	MAPK1	HSPA8	ARRB2	MED8	BUB1	FXR2	ARHGEF1	PTPN6	PHF10	ESR1		
## 1	0	1	0	0	1	1	0	0	1	0	0	1		
## 2	0	1	0	0	0	1	0	0	1	0	0	1		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	1	1	0	0	1	1	0	1	1	0	0	0		
## 5	1	1	0	0	1	1	0	1	1	0	0	0		
## 6	0	0	0	0	1	1	0	0	1	0	0	0		
##	ADAMTS10	HLA-E	TIE1	AP2A1	KRT5	SNIP1	CAMK2A	TP53	TBP	HDAC11	CALM3	XIAP	TRAF1	
## 1	1	0	1	0	1	1	1	0	0	0	0	0	0	
## 2	1	0	0	0	1	1	0	0	0	0	0	0	0	
## 3	1	0	0	0	1	1	0	0	0	0	0	0	0	
## 4	1	0	0	0	1	1	0	0	0	0	0	1	0	
## 5	1	0	0	0	1	1	0	0	0	0	0	0	0	
## 6	1	0	0	0	1	1	0	0	0	0	0	0	0	
##	PPP2R1A	BCR	RPLP1	TTF2	HIF1AN	ACTN2	TAC3	SIN3A	CSNK1A1	TK1	ATXN1	CD55	NTRK1	
## 1	0	1	0	0	0	1	0	0	0	0	0	0	0	
## 2	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 5	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0	
##	TRAK2	DLX5	POU2F1	ADORA2A	CEP55	TTR	CDK16	PLAUR	TRIM23	DCN	DDX3X	IRAK1	UFD1	
## 1	0	0	1	0	0	0	1	1	1	1	1	1	1	
## 2	0	0	0	0	0	0	1	1	1	1	1	0	1	
## 3	0	0	0	0	0	0	1	1	0	1	1	0	1	
## 4	0	0	1	0	0	0	1	1	1	1	1	0	1	
## 5	0	0	1	0	0	0	1	1	1	1	1	1	1	
## 6	0	0	0	0	0	0	1	1	1	1	1	0	1	

##	ZNF8	RGS2	RAP1A	HNRNPM	ZBTB17	STK39	NR3C1	B2M	RAC1	ITPR1	FUS	TGFB1	ZNF764		
## 1	1	1	1	0	0	0	1	1	1	1	1	0	0		
## 2	1	1	1	0	0	0	0	1	0	1	0	0	0		
## 3	1	0	1	0	0	0	0	1	1	1	0	0	0		
## 4	1	1	1	0	0	0	1	1	0	1	1	0	1		
## 5	1	1	1	0	0	0	1	1	0	1	1	0	1		
## 6	1	1	1	0	0	0	0	1	1	1	1	0	0		
##	NFKB1A	NCK1	TRAF6	COG2	CXCR4	CDH1	NOTCH2NL	STAU1	SYT2	IRS2	KRT1	HSPA5	CTNNA1		
## 1	0	0	0	0	1	0	1	0	1	1	0	0	0		
## 2	0	0	0	0	1	0	1	0	1	1	0	0	0		
## 3	0	0	0	0	1	0	1	0	1	0	0	0	0		
## 4	0	1	0	0	1	0	1	0	1	1	0	0	0		
## 5	0	1	0	0	1	0	1	0	1	1	0	0	0		
## 6	0	0	0	0	1	0	1	0	1	1	0	0	0		
##	PKNOX1	CEBPB	DEFB1	SHH	CUL5	CDC42	CCR2	RIN2	TSHR	PRKACA	NEBL	PAFAH1B3	TF		
## 1	0	1	0	0	1	1	1	1	0	1	0	0	1		
## 2	0	0	0	0	1	1	0	1	0	0	0	0	1		
## 3	0	0	0	0	1	1	0	0	0	0	0	0	1		
## 4	0	1	0	0	1	1	1	1	0	0	0	0	1		
## 5	0	0	0	0	1	1	1	1	0	0	0	0	1		
## 6	0	0	0	0	1	1	1	1	0	0	0	0	1		
##	SUMO2	HSPE1	ITCH	KIT	KPNA1	FMR1	A2M	PFKL	FANCD2	GNA13	MAEA	TNF	CDK4	CD48	F3
## 1	0	0	0	1	0	1	0	1	0	0	0	1	1	1	0
## 2	0	0	0	1	0	1	0	0	0	0	0	1	1	0	0
## 3	0	0	0	0	0	0	0	1	0	0	0	1	1	0	0
## 4	0	0	0	1	0	1	0	0	0	0	0	1	1	1	0
## 5	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0
## 6	0	0	0	1	0	1	0	0	0	0	0	0	1	1	0
##	INSR	JAK2	CDK8	TNFRSF19	CCNB1	ROS1	FKBP5	GRB2	CANX	CASP7	FCGR2A	PDZK1	YWHAZ		
## 1	0	0	0	0	0	0	1	0	0	0	0	0	0		
## 2	1	1	0	0	0	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	0	0	0	0	1	0	0	0	0		
## 4	1	1	0	1	0	1	0	0	0	0	0	0	0		
## 5	1	1	0	0	0	0	1	0	0	0	0	0	0		
## 6	0	0	0	0	0	0	0	0	1	0	0	0	0		
##	ESR1	ARHGAP1	AFP	C1QA	CEBPG	RMND5B	CACYBP	PRKCA	RAP1A	MAPK6	FN1	ELOF1	MAPK1		
## 1	1	0	0	1	0	1	0	0	0	0	0	1	1		
## 2	1	0	0	0	0	1	0	0	0	0	0	1	0		
## 3	0	0	0	0	0	1	0	0	0	0	0	1	0		
## 4	1	1	0	0	0	1	0	0	1	1	0	1	0		
## 5	1	1	0	0	0	1	0	0	0	1	0	1	0		
## 6	1	1	0	1	0	1	0	0	0	1	0	1	0		
##	CCND1	TGFB2	GRIN2A	DOK1	STAT5A	FGR	NR4A1	MEP1A	KIT	RBL1	HSF1	SNCB	CBL	ZFP36	
## 1	1	0	0	0	1	0	1	0	0	0	0	0	0	1	
## 2	1	0	1	0	0	0	1	0	0	0	0	0	0	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	1	0	1	0	1	0	0	0	0	0	0	0	
## 5	1	0	1	0	1	0	1	0	0	0	0	0	0	0	
## 6	1	0	0	0	1	0	1	0	0	0	0	0	0	0	
##	CHGB	PABPC1	PDGFRB	PTBP2	PSAP	HNF4A	TOR1AIP1	TAB1	ZNRD2	MTA1	RTN4	SMAD2	TGFA		
## 1	0	1	0	0	0	0	1	1	0	1	1	1	1		
## 2	0	1	0	0	0	0	1	0	0	1	1	1	1		
## 3	0	1	0	0	0	0	0	0	0	0	0	0	1		
## 4	0	1	0	0	0	1	1	0	0	1	1	0	1		

## 5	0	1	0	0	0	0	1	1	0	1	1	0	1
## 6	0	1	0	0	0	0	1	0	0	1	1	0	1
##	LILRB2	EPHA4	MAP2K4	STIP1	AXIN1	STAT3	RBPMS	HINFP	CADM1	MDFI	SP3	TAP1	NFKBIB
## 1	1	0	1	0	0	0	0	0	0	0	0	0	1
## 2	1	0	0	0	0	0	0	0	0	0	0	0	1
## 3	1	0	0	0	0	0	0	0	0	0	0	0	1
## 4	1	0	0	0	0	0	0	0	0	0	0	0	1
## 5	1	0	0	0	0	0	0	0	0	0	0	0	1
## 6	0	0	0	0	0	0	0	0	0	0	0	0	1
##	CTTN	LAT	DDR1	PSMD11	APP	CSNK1E	IL1RL1	PKNOX1	ZNF598	RPS6KA3	IFNG	STRN4	KIT
## 1	0	0	0	1	1	1	0	1	0	0	1	0	1
## 2	0	0	1	1	0	0	0	1	0	0	1	0	1
## 3	0	0	0	1	0	0	0	0	0	0	0	0	1
## 4	0	0	1	1	1	0	0	1	0	0	1	0	1
## 5	0	0	1	1	1	0	0	1	0	0	1	0	1
## 6	0	0	0	1	0	0	0	1	0	0	1	0	0
##	GSK3B	NFYA	KNSTRN	IRAK1BP1	GSK3B	ACIN1	MSX1	UBE2I	GTF2I	WARS1	PSMC5	LCP1	
## 1	1	0	0	0	1	1	0	1	0	0	1	0	
## 2	1	0	0	0	0	1	0	1	0	0	0	0	
## 3	1	0	0	0	0	1	0	0	0	0	0	0	
## 4	1	0	0	0	0	1	0	1	1	0	1	0	
## 5	1	0	0	1	0	1	0	1	1	0	1	0	
## 6	1	0	0	0	0	1	0	0	0	0	0	0	
##	ZBTB16	CCNA2	RPS6KA1	RELA	STX3	ANXA1	TMSB4X	ITGB4	MAPK8IP3	PAK1	NDUFB9	LCK	
## 1	1	0	0	0	1	0	0	1	0	1	1	1	
## 2	1	0	0	0	0	0	0	0	0	0	0	0	
## 3	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	0	0	1	0	0	0	0	0	1	1	
## 5	1	0	0	0	0	0	0	0	0	1	1	1	
## 6	1	0	0	0	0	0	0	0	0	0	0	1	
##	PARD6A	TRAF6	PDGFRA	RALA	LUC7L2	CAST	GRB2	MAP4	CD247	TLE5	BTK	TDG	MAPK9
## 1	0	0	1	0	0	0	0	0	0	1	1	0	0
## 2	0	0	1	0	0	0	0	0	0	1	1	0	0
## 3	0	0	1	0	0	0	0	0	0	1	1	0	0
## 4	0	0	1	0	0	0	0	0	0	1	1	1	0
## 5	0	0	1	0	0	0	0	0	0	1	1	0	0
## 6	0	0	1	0	0	0	0	0	0	1	1	0	0
##	UNC119	PRKDC	LSM7	BACE1	SUPT4H1	RBL1	SIAH2	GNG13	ITGA8	UBE2I	GLRX	EYA2	HDAC1
## 1	0	0	0	1	0	0	0	0	0	1	1	0	0
## 2	0	0	0	1	0	0	0	0	0	0	0	0	1
## 3	0	0	0	1	0	0	0	0	0	1	0	0	0
## 4	0	1	0	0	0	0	0	0	0	1	1	0	1
## 5	0	0	0	0	0	0	0	0	0	1	0	0	1
## 6	0	0	0	0	0	0	0	0	0	1	0	0	1
##	EP300	NFIC	RXRG	WWTR1	PDCD6	HLA-F	DLG1	TOX4	CDKN2A	YWHAZ	ACTC1	KIF4A	RPS27A
## 1	1	0	0	1	1	1	0	1	0	1	0	0	0
## 2	0	0	0	1	1	1	0	1	0	0	0	0	0
## 3	0	0	0	1	0	1	0	1	0	0	0	0	0
## 4	0	0	0	1	1	1	0	1	0	1	0	0	0
## 5	0	0	0	0	1	1	0	1	0	0	0	0	0
## 6	0	0	0	0	1	1	0	1	0	0	0	0	0
##	PHB	GNA13	PTPN6	ITGB1	FZD5	FAM107A	LILRB2	PHYH	ATN1	STK11	YAE1	PTPRA	PDZK1
## 1	0	1	0	0	1	1	1	0	0	0	1	1	1
## 2	0	1	0	0	1	1	1	0	0	0	1	1	1

## 3	0	0	0	0	1	1	1	0	0	0	0	0	0
## 4	0	1	0	0	1	1	1	0	0	0	0	1	1
## 5	0	1	0	0	1	1	1	0	0	0	0	1	1
## 6	0	1	0	0	1	1	1	0	0	0	0	1	1
##	JUND	SEC31A	LDB2	PDGFRA	CDKN2A	PTPRC	EEF1A1	DLG5	CASP7	ACTA1	FBXO30	ACVR1	
## 1	1	0	1	1	0	1	0	0	0	0	1	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	1	0	1	0	1	0	0	1	0	
## 5	1	0	1	1	0	1	0	1	1	0	0	0	
## 6	0	0	0	0	0	1	0	1	0	0	1	0	
##	TRIP6	FEZ1	FZD6	PTMA	RHOXF2	EIF3E	PSEN2	HEXD	SLC18A2	SWAP70	MUC7	CRKL	
## 1	1	0	1	0	0	0	0	0	0	1	1	1	
## 2	1	0	0	0	0	0	0	0	0	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	0	0	1	0	0	0	0	1	0	1	
## 5	1	0	1	0	1	0	0	0	0	0	0	1	
## 6	0	0	1	0	0	0	0	0	0	0	0	1	
##	PPARGC1A	GP1BA	EIF2S2	NGFR	CSNK2A2	PDPK1	CALM1	ESRRA	MMP14	NCOA1	IL1RAP	CRKL	
## 1	0	0	1	0	1	1	0	1	1	1	0	0	
## 2	0	0	0	0	0	1	0	1	0	1	0	0	
## 3	0	0	0	0	0	1	0	0	0	1	0	0	
## 4	0	0	1	0	0	1	0	1	0	1	0	0	
## 5	0	0	1	0	0	1	0	1	0	1	0	0	
## 6	0	0	1	0	0	1	0	1	0	1	0	0	
##	FOXG1	ACVR2B	TACR1	SMARCA2	UBQLN4	COIL	CXCR4	DLG1	PHC1	SIRT2	FGFR3	POU2F1	
## 1	1	0	1	1	0	1	0	0	0	0	0	1	
## 2	0	0	0	1	0	1	0	0	0	0	0	1	
## 3	0	0	0	1	0	0	0	0	0	0	0	1	
## 4	1	0	0	1	1	1	0	1	0	0	0	1	
## 5	1	0	0	1	1	1	0	0	0	0	0	1	
## 6	1	0	0	1	1	1	0	0	1	0	0	1	
##	C1QTNF1	PXN	TLR5	AKT1	IGF2R	PLCB2	YWHAG	PIM2	PFDN1	TLR3	FANCD2	PPARA	GIT1
## 1	0	0	0	1	0	0	1	1	1	0	1	0	1
## 2	0	0	0	1	0	0	1	0	1	0	0	1	1
## 3	0	0	0	1	0	0	1	0	1	0	0	0	1
## 4	0	0	0	1	0	0	1	0	1	0	1	1	1
## 5	0	0	0	1	0	0	1	0	1	0	1	0	1
## 6	0	0	0	1	0	0	1	0	1	0	1	0	1
##	AURKA	ERBB3	SMAD2	HUWE1	POLR2A	BAD	TNK2	XP01	ODC1	ANKS1A	RUNX3	AKT1	SPTAN1
## 1	0	0	0	0	1	1	1	0	0	1	0	1	0
## 2	0	0	0	0	1	1	1	0	0	1	0	1	0
## 3	0	0	0	0	1	0	0	0	0	0	0	1	0
## 4	0	0	0	0	1	1	1	0	0	1	0	1	0
## 5	0	0	0	0	1	1	1	0	0	1	0	1	0
## 6	0	0	0	0	1	1	1	0	0	1	0	1	0
##	MYOC	GRK5	TRAF3IP2	KLC1	BAG6	EXOC7	EZH2	ZNF76	ARHGAP1	IER3IP1	ASB13	PDCD6IP	
## 1	0	1	1	0	0	0	1	0	0	0	0	0	0
## 2	0	1	1	0	0	0	1	0	1	0	0	0	0
## 3	0	1	1	0	0	0	0	0	0	0	0	0	0
## 4	0	1	1	0	0	0	1	0	1	0	0	0	0
## 5	0	1	1	0	0	0	1	0	0	0	0	0	0
## 6	0	1	0	0	0	0	1	0	0	0	0	0	0
##	RACK1	GNAI1	MBP	CEP76	COPS6	BIRC5	AKAP13	EHMT2	RPL5	YWHAZ	ELANE	NUAK1	CUL9

## 1	0	0	0	1	0	1	0	1	1	0	1	0	0
## 2	1	0	0	1	0	0	0	0	0	0	1	0	0
## 3	0	0	0	1	0	0	0	0	1	0	0	0	0
## 4	0	0	0	1	0	1	0	0	1	0	1	0	1
## 5	0	0	0	0	0	0	0	1	0	0	0	0	0
## 6	0	0	0	1	0	1	0	0	0	0	1	0	1
##	MCM10	FASLG	GABARAPL1	TGFBR1	UBE2G2	EMSY	GRIN2D	E2F6	NOTCH3	HBP1	SH3BP1		
## 1	1	0		1	0	1	0	1	0	0	0	1	
## 2	0	0		0	0	1	0	1	0	0	0	0	
## 3	0	0		0	0	1	0	1	0	0	0	0	
## 4	1	0		0	0	1	0	1	0	0	0	1	
## 5	1	0		0	0	1	0	1	0	0	0	0	
## 6	1	0		0	0	1	0	1	0	0	0	0	
##	RABAC1	KNG1	MAPK14	GAB3	TNNT1	CASP3	UNC119	RAMP3	TCOF1	PMF1	YWHAG	MOB4	FCGR2B
## 1	0	0		0	1	1	0	1	0	0	1	0	1
## 2	0	0		0	0	1	0	1	0	0	1	0	0
## 3	0	0		0	0	1	0	1	0	0	1	0	0
## 4	0	0		0	0	1	0	1	0	0	1	0	1
## 5	0	0		0	0	1	0	1	0	0	1	0	1
## 6	0	0		0	0	1	0	1	0	0	1	0	0
##	PRKCA	FLI1	TYK2	PLSCR1	SRC	ITGB1	TRAK1	LAMA4	ERBIN	CBX1	HNRNPL	CNKSR1	TERF1
## 1	1	1	0		0	0	0	1	1	0	1	0	0
## 2	1	0	0		0	0	0	1	0	0	0	0	0
## 3	0	0	0		0	0	0	0	0	0	0	0	0
## 4	0	1	0		0	0	0	0	0	0	0	0	0
## 5	1	0	0		0	0	0	1	0	0	0	0	0
## 6	0	0	0		0	0	0	1	0	0	0	0	0
##	CAP1	H2AX	ZBTB16	RASSF1	TUBB4A	ESR1	PNRC2	PRMT2	CRKL	RPS27	SLC9A3	EXOSC10	
## 1	1	1	0		1	0	1	0	1	1	0	1	0
## 2	1	1	0		1	0	1	0	1	1	0	1	0
## 3	1	0	0		0	0	1	0	1	0	0	1	0
## 4	1	1	0		1	0	1	0	1	1	0	1	0
## 5	1	0	0		1	0	1	0	1	0	0	1	0
## 6	1	0	0		1	0	1	0	1	0	0	1	0
##	ETS1	CBX2	CSK	CREBBP	EIF2AK2	MAPK8	GRIA4	GATA2	DLG4	NCK1	SHC1	LRRC7	EEF1A1
## 1	1	1	1		0	1	1	1	1	1	0	1	0
## 2	0	1	1		1	1	0	0	0	1	0	0	0
## 3	0	0	0		1	1	0	0	0	0	0	0	0
## 4	1	1	1		0	1	1	0	1	0	0	0	0
## 5	1	1	1		0	1	1	0	1	0	0	1	0
## 6	1	1	0		0	1	1	0	1	1	0	0	0
##	IFITM1	FTL	RNF19A	COPS6	GOPC	XAB2	PLEC	SCIN	BCL3	CSF3R	UBE2D4	SSRP1	NAGK
## 1	0	0		1	1	0	0	0	0	0	0	0	1
## 2	0	0		1	1	0	0	0	0	0	0	0	1
## 3	0	0		1	1	0	0	0	0	0	0	0	1
## 4	0	0		1	1	1	0	0	0	0	0	0	1
## 5	0	0		1	1	1	0	0	0	0	0	0	1
## 6	0	0		1	1	1	0	0	0	0	0	0	1
##	NUP98	IL2	MAP3K20	MAPK9	APEH	PLSCR1	YWHA	SMN1	CASP1	GORASP1	PML	ATXN1	PBX3
## 1	1	1		0	1	1	1	0	0	0	1	0	0
## 2	1	1		0	1	0	1	0	0	0	1	1	0
## 3	1	1		0	1	0	0	0	0	0	1	0	0
## 4	1	1		0	1	0	0	0	0	0	1	0	0
## 5	1	1		0	1	0	1	0	0	0	1	0	0

## 6	1	1	0	1	0	0	0	0	0	0	1	0	0	0
##	BCR	NRXN1	BTK	LRP1	PLXNB2	MAPT	KNG1	RXRG	DLG4	APOA1	KARS1	BMPR1B	CCNE1	DPYSL5
## 1	0	0	1	0	0	0	0	0	1	0	1	1	0	0
## 2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
## 4	0	0	1	0	0	0	1	0	0	0	1	1	0	0
## 5	0	0	1	0	0	0	0	0	0	0	1	1	0	0
## 6	0	0	1	0	0	0	0	0	0	0	1	1	0	0
##	JAK2	PRKCA	EPB41	UTRN	BUB1B	PRKAR1A	CREBBP	ENO2	MAPK14	TNFRSF1B	PRG2	GAST		
## 1	1	1	1	0	0	0	1	0	0	0	0	0	0	
## 2	1	1	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	0	0	0	1	0	0	0	0	0	0	0	
## 5	1	1	0	0	0	1	0	0	1	0	0	0	0	
## 6	1	1	0	0	0	1	0	0	0	0	0	0	0	
##	RPS6KA6	TP53	PRKCD	XRCC6	ID2	NECAB2	GPRASP1	PABPN1	CAV1	BRCA1	E2F1	EP300		
## 1	0	1	0	1	0	0	0	0	0	0	1	1	1	
## 2	0	0	0	0	0	0	0	0	0	0	1	1	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	1	
## 4	0	1	0	0	0	0	0	0	0	0	1	1	0	
## 5	0	1	0	0	0	0	1	0	0	0	1	1	0	
## 6	0	1	0	0	0	0	0	0	0	0	0	1	0	
##	PRAG1	PAK1	PIN1	NAPA	NTRK1	LYN	RB1	BID	RAC2	SMAD4	MYOD1	NTAQ1	MAPK1	SERPINA4
## 1	1	0	0	1	0	0	1	1	0	1	0	0	0	1
## 2	1	0	0	0	0	0	1	1	0	0	0	0	0	1
## 3	0	0	0	0	0	0	1	1	0	0	0	0	0	1
## 4	1	0	0	0	0	0	1	1	0	0	0	0	0	1
## 5	1	0	0	0	0	0	1	1	0	0	0	0	0	1
## 6	0	0	0	0	0	0	1	1	0	0	0	0	0	1
##	TSPO	RAC1	KLHL23	LYN	DUSP13	ACTG1	TTR	UNC13D	GRB2	ESR1	PPP5C	EFNA1	EGLN2	
## 1	1	1	1	1	0	0	0	0	0	0	1	0	1	
## 2	1	1	1	0	0	0	1	0	0	0	1	0	0	
## 3	1	1	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	1	1	0	0	0	1	0	0	0	1	1	1	
## 5	1	1	1	0	0	0	0	0	0	0	1	0	0	
## 6	1	1	1	1	0	0	0	0	0	0	1	1	0	
##	POLA2	DVL2	CCDC106	GAB1	CEBPZ	JUN	CFL2	TRPM7	C3	SPRR2D	KIT	ITGA7	VCL	SOCS3
## 1	1	1	1	1	1	1	0	1	1	1	0	1	1	1
## 2	0	1	1	1	0	0	0	0	1	0	0	1	1	0
## 3	0	0	1	1	0	0	0	0	1	0	0	1	0	0
## 4	1	1	1	1	0	0	0	0	1	0	0	1	1	0
## 5	1	0	1	1	0	0	0	0	1	0	0	1	1	0
## 6	1	0	1	1	0	0	0	0	1	0	0	1	1	0
##	UPF2	PRKCA	GNAZ	RFC1	RPA1	PNMA1	JUN	RUNX1	METTL23	DLG2	CDK5	GRB2	BTBD2	CNTFR
## 1	1	0	0	1	0	0	0	0	0	0	0	1	0	0
## 2	0	0	0	1	0	0	0	0	0	0	0	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 4	0	1	0	1	0	0	0	0	1	0	0	1	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	1	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	1	0	0
##	GMNN	TSG101	SSRP1	BIN1	RTN4	ENKD1	CALM1	INPP4A	SP1	PSMC2	ESR1	MED17	HTT	SHB
## 1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
## 2	0	0	0	1	0	0	0	0	1	0	0	0	0	1
## 3	0	0	0	1	0	0	0	0	1	0	0	0	0	1

## 4	0	0	0	1	1	1	0	0	1	0	0	0	0	1
## 5	0	0	0	1	0	1	0	0	1	0	0	0	0	1
## 6	0	0	0	1	0	1	0	0	1	0	0	0	0	1
##	NUP62	RNF2	CAP1	FOS	TNNT1	CDK1	SUV39H1	CDC25B	MYOD1	KRT15	LIN7B	ETHE1	FLNA	
## 1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	1	0	0	0	1	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	0	0	0	1	0	0	0	0	0	0	0	0
## 5	1	0	0	0	0	1	0	0	0	0	0	0	0	0
## 6	1	0	0	0	0	1	0	0	0	0	0	0	0	0
##	ACAP1	NEFM	TGFBR1	KLC2	KRT81	MAPK8	CBL	SOX10	MAPK3	LSM1	VDAC1	PPM1A	CD8A	
## 1	0	1	0	0	1	0	0	1	1	1	0	0	1	
## 2	0	1	0	0	1	0	0	1	1	0	0	0	0	
## 3	0	1	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	1	0	0	1	0	0	1	1	1	0	0	0	
## 5	0	1	1	0	1	0	0	1	1	1	0	0	0	
## 6	0	1	0	0	0	0	0	1	0	1	0	0	0	
##	CAMK2B	MAPK6	CACNA1A	SOS1	GSK3B	EPHA2	FBLN2	RAB11FIP2	SPTBN2	FGF17	CSNK2A1			
## 1	0	1	0	0	1	0	0	0	0	1	0	0		
## 2	0	1	0	1	1	1	0	0	0	1	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	1	0	0	1	1	0	0	0	1	0	0		
## 5	0	1	0	0	1	1	0	0	0	1	0	0		
## 6	0	1	0	0	0	0	0	0	0	1	0	0		
##	RNF11	SIL1	SMURF2	TP53	ESR1	ITGA9	CCNT1	LGALS3	PCSK5	EGR2	MVP	MAGEA11	MST1R	
## 1	1	0	0	1	1	1	1	0	1	1	0	1	0	
## 2	1	0	0	0	1	1	0	0	1	0	0	1	0	
## 3	0	0	0	0	1	0	0	0	0	0	0	1	0	
## 4	1	0	0	0	1	1	1	0	1	1	0	1	0	
## 5	1	0	0	1	1	1	1	0	1	1	0	1	0	
## 6	1	0	0	0	1	0	1	0	1	0	0	1	0	
##	CASP8	NUP62	RNF11	MAPK6	TRDMT1	APP	GHRL	TRAPPC4	GRID2	PLA2G2A	ZG16	STAT2		
## 1	1	0	1	1	0	1	0	0	0	0	0	0		
## 2	1	0	1	1	0	1	0	0	0	0	0	0		
## 3	1	0	0	1	0	1	0	0	0	0	0	0		
## 4	1	0	1	1	0	1	0	0	0	0	0	0		
## 5	1	0	1	1	0	1	0	0	0	0	0	0		
## 6	1	0	1	1	0	1	0	0	0	0	0	0		
##	ARHGAP32	HIVEP1	PRKCA	PAK1	NLRP12	RNF216	ITCH	RGS10	TRPV4	DLG4	CD82	CUL7	AMPH	
## 1	0	1	1	0	0	1	0	0	0	0	1	0	0	
## 2	0	1	1	0	0	1	0	0	0	1	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	1	1	0	0	
## 4	0	0	1	0	0	0	0	0	0	1	1	0	0	
## 5	0	1	1	0	0	0	0	1	0	1	1	0	0	
## 6	0	0	0	0	0	0	0	0	0	1	1	0	0	
##	UBE2D3	NEDD4	TCF3	PROX1	WAS	CCNA2	PA2G4	TAF10	AFDN	ACTA1	LUC7L2	EIF3C	KIT	
## 1	1	0	0	0	1	0	1	1	0	0	0	1	0	
## 2	1	0	0	0	1	0	1	1	1	0	0	1	0	
## 3	1	0	0	0	1	0	1	1	0	0	0	1	0	
## 4	1	0	0	0	1	0	1	1	0	0	0	1	0	
## 5	1	0	0	0	1	0	1	1	1	0	0	1	0	
## 6	1	0	0	0	0	0	1	1	0	0	0	1	0	
##	ITGB3	TSC22D1	RAB33B	TBP	IL2RA	BMP1B	RAN	GRB14	KRAS	MAPK3	RAB5A	IGFBP5		
## 1	0	1	1	1	0	1	0	0	1	1	0	1		

## 2	0	1	0	1	0	0	0	0	1	1	0	1	
## 3	0	0	0	1	0	0	0	0	1	1	0	1	
## 4	0	1	1	1	0	0	0	1	1	1	0	1	
## 5	0	1	1	1	0	0	0	0	1	1	0	1	
## 6	0	1	1	1	0	0	0	0	1	1	0	1	
##	BCL2L1	LAMTOR5	MAPT	MTNR1A	SLC22A5	RPH3A	CDC27	RBBP4	KIT	BIRC2	KIF1B	OBSCN	
## 1	1	1	0	0	0	0	0	0	1	1	0	1	
## 2	1	1	0	0	0	0	0	1	1	0	0	1	
## 3	1	1	0	0	0	0	0	1	1	0	0	1	
## 4	1	1	0	0	0	0	0	1	1	1	0	1	
## 5	1	1	0	0	0	0	0	1	1	1	0	1	
## 6	1	1	0	0	0	0	0	0	1	1	0	1	
##	MED14	HNF4A	RELA	CSNK2B	S100A13	FGFR1	CDK2	GNAQ	CSAD	BTRC	KEAP1	TAF7	HEXD
## 1	1	1	0	0	0	0	0	1	1	0	0	1	0
## 2	1	0	0	0	0	0	0	1	0	0	1	1	0
## 3	1	0	0	0	0	0	0	1	0	0	0	1	0
## 4	1	0	0	1	0	0	0	1	0	0	0	1	0
## 5	1	0	0	0	0	0	0	1	0	0	0	1	0
## 6	1	0	0	0	0	0	0	0	0	0	0	1	0
##	KLRC3	DMD	PRKDC	CALM1	PRSS23	HNRNPK	SMAD1	BRCA1	PLEKHJ1	GRIN1	EEF1G	DUSP4	
## 1	0	0	0	1	0	0	1	0	0	0	1	0	
## 2	0	0	0	1	0	0	1	0	0	0	0	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	0	1	0	0	1	0	0	0	0	0	
## 5	0	0	0	1	0	0	1	0	0	0	0	0	
## 6	0	0	0	0	0	0	1	0	0	0	0	0	
##	UBQLN4	CEBPB	EEF1D	DNM1L	PSEN1	UBB	ELANE	STK11	ERCC5	LNX1	METTL17	RELA	
## 1	0	0	1	0	1	0	0	1	1	0	1	1	
## 2	0	0	1	0	0	0	0	1	0	0	0	1	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	0	1	0	0	1	1	1	1	1	
## 5	0	0	1	0	1	0	0	1	1	1	1	1	
## 6	0	0	1	0	0	0	0	0	1	1	0	1	
##	SLC35F6	CALM2	RGS2	MPDZ	CHMP2B	RUNX1T1	EWSR1	MAPK6	KLF6	FZD8	YWHAH	BATF	ERBB2
## 1	0	1	0	0	0	0	0	0	0	0	0	0	0
## 2	0	1	0	0	1	0	0	0	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0
## 4	0	1	0	0	0	0	0	0	0	0	0	0	0
## 5	0	1	0	0	0	0	0	0	0	0	0	0	0
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MCM2	NUAK1	FCGR1A	ZBED1	TPM3	FEZ1	PIN1	MAP3K7	STAT3	CSNK2B	KAT5	XPNPEP1	CCL2
## 1	1	0	1	0	0	1	1	0	0	1	0	1	1
## 2	0	0	0	0	0	1	1	0	0	0	0	1	1
## 3	0	0	0	0	0	1	1	0	0	0	0	1	1
## 4	1	0	0	0	0	1	1	0	0	0	0	1	1
## 5	1	0	1	0	0	1	1	0	0	0	0	1	1
## 6	1	0	0	0	0	1	1	0	0	0	0	1	1
##	CDK4	SERPINE1	JUN	LCK	CDK4	TAF11	RPL13	MDFI	EYA1	LCP2	PRKAR1B	HSP90AA1	
## 1	1	0	1	0	0	0	0	1	0	0	1	0	
## 2	1	0	1	0	0	0	0	1	0	0	1	0	
## 3	1	0	1	0	0	0	0	1	0	0	1	0	
## 4	1	0	1	0	0	0	0	1	0	1	1	0	
## 5	1	0	1	0	0	0	0	1	0	1	1	0	
## 6	1	0	1	0	0	0	0	1	0	0	1	0	

##	PRPF40A	GIT1	BTBD1	ATP2B1	ZNF227	RET	FUBP1	NFATC2	EWSR1	UBQLN4	CFLAR	MED8	BMX
## 1	0	1	0	0	1	1	1	0	0	0	0	0	1
## 2	0	1	0	0	0	1	1	0	0	0	0	0	1
## 3	0	0	0	0	0	1	1	0	0	0	0	0	1
## 4	0	1	0	0	0	1	1	0	0	0	0	0	1
## 5	0	0	0	0	0	1	1	0	0	0	0	0	1
## 6	0	1	0	0	0	1	1	0	0	0	0	0	1
##	VAV1	PNMA1	USP4	CREBBP	HABP4	PTPN11	TP53	PTPN6	NXF1	CSPG4	UBB	EEF1A1	RBBP8
## 1	1	0	1	1	0	0	0	0	0	0	1	0	0
## 2	1	0	1	1	0	0	0	0	0	0	1	0	0
## 3	1	0	1	0	0	0	0	0	0	0	0	0	0
## 4	1	0	1	1	0	0	1	0	0	0	1	0	0
## 5	1	0	1	1	0	0	0	0	0	0	1	0	0
## 6	1	0	1	1	0	0	0	0	0	0	1	0	0
##	ACTA2	BCL2	GOLM1	CARHSP1	DDIT3	CD44	SLC9A3R1	TAPBP	PNP	EIF6	MAP3K4	SF3A1	DLG5
## 1	0	0	0	0	0	0	1	0	1	0	0	0	0
## 2	0	0	0	0	0	0	1	0	0	0	0	0	0
## 3	0	0	0	0	0	0	1	0	0	0	0	0	0
## 4	0	0	0	0	0	0	1	0	0	0	0	0	0
## 5	0	0	0	0	0	0	1	0	0	0	0	0	0
## 6	0	0	0	0	0	0	1	0	0	0	0	0	0
##	DMAP1	HAP1	SMURF1	SUMO1	ADD1	CEP126	SP100	COL4A5	CTCF	COPS5	PMAIP1	CRELD1	
## 1	0	1	1	1	0	0	1	0	0	0	0	1	
## 2	0	0	1	0	0	0	0	0	0	0	0	1	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	1	0	0	0	0	0	0	0	1	
## 5	0	0	1	0	0	0	0	0	0	0	0	1	
## 6	0	0	1	1	0	0	0	0	0	0	0	1	
##	PTCH1	PRSS23	DCP2	ACTG1	RARA	BAG4	SNTB1	RASSF5	PTK2	STXBP2	TK1	BAIAP2	PABPC1
## 1	1	0	0	0	0	1	0	0	1	1	1	0	0
## 2	0	0	0	0	0	1	0	1	0	1	1	0	0
## 3	0	0	0	0	0	1	0	0	0	0	1	0	0
## 4	0	0	0	0	0	1	0	1	1	1	1	0	0
## 5	0	0	0	0	0	1	0	1	1	1	1	0	0
## 6	0	0	0	0	0	1	0	1	1	1	1	0	0
##	SYNE1	NXF1	KNG1	ITGA2	BTK	RPS6KB1	IL5RA	PITX2	TPD52L1	HSPA1A	FBN1	ECH1	
## 1	0	0	0	0	0	0	0	0	0	0	0	1	
## 2	0	0	0	0	0	0	0	0	0	0	0	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	
## 4	1	0	0	0	0	0	0	0	0	0	0	1	
## 5	1	0	0	0	0	0	0	0	0	0	0	1	
## 6	1	0	0	0	0	0	0	0	0	0	0	1	
##	GPBP1L1	PCSK5	ITFG1	FBP1	LSM3	SNCA	PTPRC	YWHAB	GADD45A	P2RY1	POLR2G	MDFIC	
## 1	0	0	1	1	1	0	1	0	1	1	0	1	
## 2	0	0	1	1	1	1	0	0	1	0	0	1	
## 3	0	0	0	1	1	0	0	0	0	0	0	1	
## 4	0	0	1	1	1	0	0	0	1	0	0	1	
## 5	0	0	1	1	1	0	0	0	1	0	0	1	
## 6	0	0	1	1	1	0	0	0	1	0	0	1	
##	USP8	H3-3A	UBQLN4	CD2	IL2RB	CDT1	PRKCZ	FXD6	TIMP1	CCR6	HIPK2	HSPA8	JAK2
## 1	0	1	0	1	0	0	0	1	1	0	1	1	0
## 2	0	1	0	1	0	0	0	1	0	0	1	0	0
## 3	0	0	0	1	0	0	0	1	0	0	0	0	0
## 4	0	1	0	1	0	0	0	1	1	0	1	0	0

## 5	0	1	1	1	0	0	0	1	1	0	0	0	0	0
## 6	0	0	0	1	0	0	0	1	1	0	0	0	0	0
##	PTK2	PXN	GDF6	CASP8	CDH5	PDGFRB	TRMT2A	MAPK1	TUB	UNC119	PRKCI	EEF1G	EP300	
## 1	1	1	0	0	0	1	1	0	0	0	0	1	0	
## 2	0	0	0	0	0	0	1	0	0	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	1	0	0	0	1	1	1	0	0	0	1	0	
## 5	1	1	0	0	0	1	1	1	0	0	0	0	0	
## 6	0	0	0	0	0	0	1	1	0	0	0	1	0	
##	JAK2	HDAC9	IL1RAP	TNFRSF11A	KDR	ITPR1	APOA1	PTK2	CCDC33	WASF2	A2M	FUS	PRKCG	
## 1	0	0	0		0	1	0	1	1	1	0	0	1	0
## 2	0	0	0		0	1	0	0	0	0	0	0	1	0
## 3	0	0	0		0	0	0	0	1	0	0	0	0	0
## 4	0	0	0		0	1	0	1	0	1	0	0	1	0
## 5	0	0	0		0	1	0	0	0	1	0	0	1	1
## 6	0	0	0		0	1	0	0	0	0	0	0	1	0
##	TRIM28	LRIF1	APP	EEF1D	PRKDC	F12	PRKG1	LRIF1	SMAD3	CDKN1A	RECQL5	PAEP	TLR4	
## 1	0	0	1	1	0	0	0	1	0	0	1	1	0	
## 2	0	0	0	1	0	0	0	1	0	0	1	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	1	0	0	
## 4	1	0	1	1	0	0	0	0	0	0	1	0	0	
## 5	1	0	0	1	0	0	0	1	0	0	1	0	0	
## 6	0	0	0	1	0	0	0	0	0	0	1	0	0	
##	CD93	LILRB1	DLG4	TADA3	PAPPA	TAF4	TNFRSF25	ACVR1B	HDAC1	PTPN6	PDE3B	PTGES3		
## 1	0	0	0	1	0	1	1	1	0	1	0	0		
## 2	0	0	0	1	0	1	0	1	0	1	0	0		
## 3	0	0	0	1	0	1	0	1	0	0	0	0		
## 4	0	0	0	1	0	1	0	1	0	1	0	0		
## 5	0	0	0	1	0	1	0	1	0	1	0	0		
## 6	0	0	0	1	0	1	0	1	0	1	0	0		
##	SNTA1	RBFOX1	SLC8A1	NCOR1	SHB	CNN1	NCOR2	AP1B1	GRAP2	ESR1	NCS1	TOB1	LUC7L	
## 1	1	1	0	1	0	0	0	1	1	0	1	1	0	
## 2	1	1	0	1	1	0	0	1	0	0	0	0	0	
## 3	0	1	0	1	0	0	0	1	0	0	0	0	0	
## 4	1	1	0	1	1	1	0	1	0	0	0	0	0	
## 5	1	1	0	1	1	1	0	1	0	0	0	0	0	
## 6	1	1	0	1	1	0	0	1	0	0	0	0	0	
##	MMP7	CRKL	BAG6	DLG1	CENPJ	ARHGEF12	PLAUR	PRKDC	ATF2	TUBB	CPNE4	IRAK1	C6orf47	
## 1	1	0	1	0	1	1	1	1	1	1	0	0	1	
## 2	1	0	1	0	1	0	0	1	1	1	0	0	1	
## 3	1	0	1	0	1	0	0	1	0	0	0	0	0	
## 4	1	0	1	0	1	0	0	1	1	1	0	0	1	
## 5	1	0	1	0	1	0	0	1	1	1	0	0	1	
## 6	1	0	1	0	1	0	0	1	1	1	0	0	1	
##	AURKB	SELPLG	MYB	CACNA1B	NA	APOA1	ITGB4	MAG	YWHAG	FGG	CHAF1B	YWHAQ	COL4A2	
## 1	0	0	0	1	0	0	0	0	0	0	0	1	0	
## 2	0	0	0	1	0	0	0	0	0	0	0	1	0	
## 3	0	0	0	1	0	0	0	1	0	0	0	1	0	
## 4	0	0	0	1	0	0	0	1	0	0	0	1	0	
## 5	0	0	0	1	0	0	0	1	0	0	0	1	0	
## 6	0	0	0	0	0	0	0	1	0	0	0	1	0	
##	EPHB2	ADAM17	SRC	ESR2	AATF	VIM	DTX2	PPARD	INHBB	PDCD6	CASP3	CDKN1A	NFYA	
## 1	1	0	0	0	1	1	0	1	0	1	0	0	0	
## 2	1	0	0	0	0	1	0	1	0	0	0	0	0	

## 3	1	0	0	0	0	1	0	0	0	0	0	0	0	
## 4	1	0	0	0	0	1	0	1	0	1	0	1	0	
## 5	1	0	0	0	1	1	0	1	0	1	0	1	0	
## 6	1	0	0	0	0	1	0	1	0	0	0	0	0	
##	COL8A1	MYF5	UBE2I	ACTB	CD4	GRB10	ARHGDIB	PCNA	ROCK1	MED19	NDC80	PSMA3	TG	
## 1	1	0	0	0	0	1	1	0	0	1	0	0	0	
## 2	1	0	0	0	0	1	0	0	0	0	0	0	0	
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	0	1	0	1	0	0	0	0	1	0	0	
## 5	1	0	0	0	0	1	0	0	0	0	1	0	0	
## 6	1	0	0	0	0	1	0	0	0	0	1	0	0	
##	TPD52	HRG	EED	SULT1E1	MEP1A	SIAH1	ACVR2B	RGS2	ZC2HC1C	RAF1	CNOT8	PPP1R14A	LAT	
## 1	0	0	1	0	0	0	1	1	0	0	0	0	0	
## 2	0	0	1	0	0	0	0	1	0	0	0	0	0	
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	1	0	0	0	0	1	0	0	0	0	0	
## 5	0	0	1	0	0	0	0	1	0	0	0	0	0	
## 6	0	0	1	0	0	0	0	1	0	0	0	0	0	
##	CORT	HSPA9	NGFR	APP	TGFB1	GRIP1	HGS	CSF3R	NA	GNAI2	CD93	CTNNB1	XRCC6	EWSR1
## 1	0	0	1	1	1	1	0	0	1	0	0	0	0	0
## 2	0	0	0	1	0	0	0	0	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	1	0	1	0	0	0	0	0	0	0	0	0
## 5	1	0	0	0	1	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	SP1	SNTA1	TAF9	ZEB1	BCL6	HDAC5	ERBB2	PIGR	CCDC85B	CHUK	GNAO1	RPLP1	ESR1	ALK
## 1	1	1	0	0	1	0	1	1	0	1	0	0	0	0
## 2	0	1	0	0	1	1	0	0	0	1	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	1	0	0	0	0
## 4	1	1	0	1	1	0	0	1	1	1	0	0	0	0
## 5	0	1	0	1	1	0	0	1	1	1	0	0	0	0
## 6	0	1	0	1	1	0	0	1	0	1	0	0	0	0
##	FAM107A	REN	SMN2	GTF3C1	RPS27A	NR2C2	FMR1	PIK3R1	YWHAZ	RBPMS	DYNLL1	TMEM161A		
## 1	0	1	1	0	0	0	0	0	1	1	0	0	0	
## 2	0	0	1	0	0	0	0	0	0	1	1	0	0	
## 3	0	0	1	0	0	0	0	0	0	1	1	0	0	
## 4	0	1	1	0	0	0	0	0	0	1	1	0	0	
## 5	0	1	0	0	1	0	0	0	0	1	1	0	0	
## 6	0	1	0	0	0	0	0	0	0	1	1	0	0	
##	NPPC	GTF2I	PRKG1	TRAFD1	GADD45A	YJU2B	PGR	NUDT21	ARAP1	YBX1	RXRB	TUBA4A	BRCA1	
## 1	0	0	0	0	1	0	1	0	0	1	0	1	0	
## 2	1	0	0	0	1	0	1	0	1	0	0	1	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	0	
## 4	1	0	0	0	1	0	1	0	0	0	0	1	0	
## 5	0	0	0	0	1	0	1	0	0	1	0	1	0	
## 6	0	0	0	0	1	0	1	0	0	0	0	1	0	
##	LRIF1	STAT2	PRKAR2A	BMPR1B	EPAS1	ST3GAL3	RGS2	MAP3K14	BMPR1B	ERBB4	PRKG1			
## 1	0	1	1	0	0	0	0	1	0	0	1			
## 2	0	0	1	0	0	0	0	0	0	0	0			
## 3	0	0	0	0	0	0	0	0	0	0	0			
## 4	0	1	1	0	1	0	0	0	0	0	0			
## 5	0	1	1	0	1	0	0	0	0	0	0			
## 6	0	1	1	0	0	0	0	0	0	0	0			
##	HDAC1	ATF1	CTSD	ADCY6	CD14	POLD2	SDC2	SNCA	ATN1	MSX2	RASSF1	STAT3	STX1A	PAX6

## 1	0	0	0	0	1	0	0	1	0	0	1	0	0	0
## 2	0	0	0	1	0	0	0	1	1	0	1	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	0	0
## 4	0	0	0	1	0	0	0	0	1	0	1	1	0	0
## 5	0	0	0	1	0	0	0	0	1	0	1	1	0	0
## 6	0	0	0	0	1	0	0	0	1	0	1	1	0	0
##	BRCA1	SF3B1	BRCA1	HDAC3	CSNK2B	RB1	EXOC8	NCK1	SH3BP2	PHAX	SRC	PSAP	TCF7L2	
## 1	0	0	0	1	0	0	0	1	0	0	0	1	1	
## 2	0	0	0	0	0	0	1	1	0	0	0	0	1	
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	0	1	0	0	0	1	0	0	0	0	1	
## 5	0	0	0	1	0	0	0	1	0	0	0	0	1	
## 6	0	0	0	1	0	0	0	1	0	0	0	0	1	
##	CREBBP	SYN1	CSF3R	A2M	EIF4E	PRKCA	COL3A1	GRB2	VIM	RPP14	GFAP	EP300	FABP4	RNF7
## 1	1	1	1	0	0	1	0	0	0	0	1	1	0	1
## 2	0	1	1	0	0	1	0	0	0	0	1	0	0	1
## 3	0	1	1	0	0	1	0	0	0	0	0	0	0	1
## 4	1	1	1	0	0	1	0	0	0	0	1	1	0	1
## 5	1	1	1	0	0	1	0	0	0	0	1	0	0	1
## 6	1	1	1	0	0	0	0	0	0	0	1	0	0	1
##	IMMT	DDR1	UBXN1	SH2B3	DOK1	CEBPA	MAPK1	AQP1	CASP3	ESRRA	PTPRN	CARD11	PRR13	
## 1	0	1	0	1	0	1	0	0	1	0	1	0	1	
## 2	0	0	0	1	0	1	0	0	1	0	1	0	1	
## 3	0	0	0	1	0	0	0	0	0	0	1	0	1	
## 4	0	1	0	1	0	1	0	0	0	0	1	0	1	
## 5	0	0	0	1	0	1	0	1	1	0	0	0	1	
## 6	0	0	0	1	0	1	0	0	0	0	0	0	1	
##	VAV3	NR1H2	SECISBP2	BARD1	CALD1	MED28	SETDB1	PLEC	NPM1	C3	TPPP	MRTFA	COPS5	
## 1	0	0	0	0	1	1	0	1	0	0	1	0	0	
## 2	0	0	0	0	1	1	1	1	0	0	1	0	0	
## 3	0	0	0	0	1	1	1	0	0	0	1	0	0	
## 4	0	0	0	0	1	1	1	1	0	1	1	0	0	
## 5	0	0	0	0	1	1	1	1	0	1	1	0	0	
## 6	0	0	0	0	1	0	1	1	0	0	1	0	0	
##	GNAS	PHC1	RAPGEF4	RHOA	TCOF1	SRC	NR2F2	EEF1A1	FBXW11	PNP	STC2	MT-ND4	SOX5	
## 1	0	0	0	0	0	0	0	1	0	1	0	0	0	
## 2	0	0	0	0	0	0	0	1	0	1	1	0	0	
## 3	0	0	0	0	0	0	0	0	0	1	0	0	0	
## 4	0	0	0	0	1	0	0	1	0	1	0	0	1	
## 5	0	0	0	0	0	0	0	1	0	1	0	0	1	
## 6	0	0	0	0	0	0	0	0	0	1	0	0	0	
##	PRMT2	TGFBR1	TFDP1	CCL14	BBS4	TK1	NCK2	GIPC1	CHPF	MYD88	UNC119	NCOA6	CCR4	
## 1	0	0	1	1	0	1	1	0	0	0	0	1	0	
## 2	0	0	1	0	0	1	1	0	0	0	0	1	0	
## 3	0	0	0	0	0	0	1	0	0	0	0	1	0	
## 4	0	0	0	0	0	1	1	0	0	0	1	1	0	
## 5	0	0	0	0	0	1	1	0	0	0	1	1	0	
## 6	0	0	0	0	0	1	1	0	0	0	1	1	0	
##	NAP1L5	LARP1	GUSBP14	PARD6B	CD93	SH3GL3	AGTRAP	SUMO1	MED6	IRAK1	MAPK1	PPIA		
## 1	0	1	1	1	0	1	0	1	0	0	1	1		
## 2	0	0	1	1	0	1	0	0	0	0	0	1		
## 3	0	0	1	1	0	1	0	0	0	0	0	0		
## 4	0	0	1	1	0	1	0	0	0	0	0	1		
## 5	0	0	1	1	0	1	0	0	0	0	0	1		

## 6	0	0	1	1	0	1	0	0	0	0	1	1		
##	TRA2B	RAE1	SNRNP200	CD4	ANKRA2	GABPB1	TFG	ITGB2	EFEMP2	TRAF2	PLD2	PRNP	MYD88	
## 1	0	0	0	0	1	1	1	0	1	0	0	1		
## 2	0	0	0	0	1	1	0	0	0	0	0	1		
## 3	0	0	0	0	0	1	0	0	0	0	0	0		
## 4	0	1	0	0	1	1	0	0	0	0	0	1		
## 5	0	1	0	0	1	1	0	0	0	0	0	1		
## 6	0	0	0	0	0	1	0	0	0	0	0	1		
##	STAT3	SMURF1	MYLK	YBX1	USP7	DOK4	VIM	PRPS1	KRT8	SASH3	RPS6KA1	EDNRB	TGFBR1	
## 1	0	0	1	0	0	0	0	0	0	0	0	1	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	1	0	0	0	0	0	0	
##	MAP3K7	JAK2	ATR	RFC5	PDCD6IP	ELANE	GNG2	UBQLN1	ARRB2	SCTR	HSPA1A	PPFIBP2		
## 1	0	0	0	1	0	0	0	1	0	0	1	0		
## 2	0	0	0	1	0	0	0	1	0	0	1	0		
## 3	0	0	0	1	0	0	0	1	0	0	1	0		
## 4	0	0	0	1	0	0	0	1	0	0	1	0		
## 5	0	0	0	1	0	0	0	1	0	0	1	0		
## 6	0	0	0	1	0	0	0	1	0	0	1	0		
##	HAND2	JAM2	BMP7	NA	MAD2L1	CUL1	MED8	FAF1	CALCOCO2	TFG	ACVR1	GNB5	NR3C1	SPARC
## 1	1	1	0	0	0	1	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	1	0	0	0	0	0	1	0	0
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
## 4	0	1	0	0	0	1	0	1	0	0	0	0	0	0
## 5	0	1	0	0	0	1	0	1	0	0	0	0	0	0
## 6	0	1	0	0	0	1	0	1	0	0	0	1	0	0
##	PLSCR1	CHRM2	IGF1R	KAT2B	SMC1A	ITK	TANK	TOB1	NCK1	MMP2	STAT3	IP011	MAPK1	LCK
## 1	1	0	0	0	1	0	0	0	1	1	1	0	1	0
## 2	1	0	0	0	1	0	0	0	0	0	1	0	1	0
## 3	0	0	0	0	1	0	0	0	0	0	1	0	0	0
## 4	1	0	0	0	1	0	0	0	1	0	1	0	1	0
## 5	1	0	0	0	1	0	0	0	1	0	1	0	1	0
## 6	1	0	0	0	1	0	0	0	0	0	1	0	1	0
##	BRF1	MAPK6	MCM10	C5AR1	NFKBIB	GPC3	ATXN1	APC	ITCH	CHMP4B	LSM2	TP53I3	FYN	
## 1	0	0	1	0	0	0	0	1	0	0	0	0	0	
## 2	0	0	0	0	0	0	1	1	0	0	0	0	0	
## 3	0	0	1	0	0	0	0	1	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	1	0	1	0	0	0	
## 5	0	0	0	0	0	0	0	1	0	1	0	0	0	
## 6	0	0	0	0	0	0	0	1	0	1	0	0	0	
##	GABPB1	GADD45G	ATN1	PRKCZ	CTNNB1	RETREG2	RANBP9	ANGPTL1	RBFOX2	SHC1	DNMT3L			
## 1	0	0	0	0	1	1	1	1	0	0	1			
## 2	0	0	0	0	1	1	0	1	0	0	1			
## 3	0	0	0	1	0	1	0	1	0	0	1			
## 4	0	0	0	0	1	1	0	1	0	0	1			
## 5	0	0	0	0	1	1	1	1	0	0	1			
## 6	0	0	0	0	1	1	0	1	0	0	1			
##	CREBBP	INSR	SDCBP2	PRKCE	HMOX2	TRAF3IP1	MPDZ	NCOR2	ISL1	CREBBP	SREK1	GDF9	FYN	
## 1	0	0	0	1	0	0	0	0	0	0	0	0	0	
## 2	0	0	0	1	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	1	0	0	0	0	0	0	0	0	0	

## 4	0	0	0	1	0	0	0	0	0	1	0	0	0
## 5	0	0	0	1	0	0	0	0	0	0	0	0	0
## 6	0	0	0	1	0	0	0	0	0	1	0	0	0
##	RGS2	DYNLL2	GPRASP2	MKNK1	SUGT1	NFKB1	CRMP1	PTPN1	MYF5	FAS	MMP2	RASGRP2	
## 1	0	0	0	0	0	0	1	0	0	1	0	0	
## 2	0	0	0	0	0	0	1	0	0	1	0	0	
## 3	0	0	0	0	0	0	1	0	0	1	0	0	
## 4	0	0	0	0	0	0	1	0	0	1	0	0	
## 5	0	0	0	0	0	0	0	0	0	1	0	0	
## 6	0	0	0	0	0	0	0	0	0	1	0	0	
##	EIF2S2	CASP2	RRAS	CCNA2	SMAD3	GRB2	ATXN1L	ATR	GNB3	BMPR1B	MAP2K1	GNB2	GDF9
## 1	0	0	0	0	0	1	0	0	0	1	0	0	0
## 2	0	0	0	0	0	0	0	0	0	1	0	0	0
## 3	0	0	0	0	0	1	0	0	0	1	0	0	0
## 4	0	0	1	0	0	1	0	0	0	1	0	0	0
## 5	0	0	1	0	0	1	0	0	0	1	0	0	0
## 6	0	0	1	0	0	1	0	0	0	1	0	0	0
##	MYC	CREBBP	FKBP4	PSMA5	ITGAX	PTPN1	CLU	PTPN6	AP2B1	BRCA1	RGS2	NGB	CDC27
## 1	0	0	0	0	0	0	0	0	0	0	1	0	0
## 2	0	0	0	0	1	0	0	0	0	0	1	0	0
## 3	0	0	0	0	0	0	0	0	0	0	1	0	0
## 4	0	0	0	0	1	0	0	0	0	0	1	0	0
## 5	0	0	0	0	0	0	0	0	0	0	1	0	0
## 6	0	0	0	0	0	0	0	0	0	0	1	0	0
##	EGFR	EPHA2	LSM1	SIGLEC7	STAT3	PGR	PLCG2	LAMTOR5	MACROH2A1	NMI	CENPU	SMURF2	
## 1	0	1	0	0	0	0	0	0	0	0	1	0	0
## 2	0	1	0	0	0	0	0	0	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0
## 4	0	1	0	0	0	0	0	0	0	0	0	0	0
## 5	0	1	0	0	0	0	0	0	0	0	0	0	0
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MAP2K7	CALM1	TFE3	ATXN1	DVL2	PRKCG	CTNNB1	RAP1A	SWAP70	LRIF1	CDK5RAP1	CTSG	
## 1	0	1	0	0	1	0	0	0	0	1	0	1	
## 2	0	0	0	0	0	0	0	0	0	0	1	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	1	
## 4	0	0	0	0	1	0	0	0	0	0	1	1	
## 5	0	0	0	0	1	0	0	0	0	0	1	1	
## 6	0	0	0	0	1	0	0	0	0	0	1	1	
##	BAG1	RFC5	FGR	HSF1	CDC25C	AFTPH	ESRRA	LRSAM1	GSN	MBP	BIN1	ATN1	GPRASP1
## 1	1	1	0	0	0	0	0	0	1	0	1	0	0
## 2	1	0	0	0	0	0	0	1	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	1	0	0	0	0	0	0	1	0	0	0	0
## 5	1	1	0	0	0	0	0	0	1	0	0	0	0
## 6	1	1	0	0	0	0	0	0	1	0	0	0	0
##	PIAS1	ADGRB2	DTNBP1	CDK9	STAT5A	RPS3A	SLC8A1	FBLN2	STK3	PTPRF	CAP2	SRSF7	TP53
## 1	1	0	0	1	1	0	0	1	0	0	1	0	0
## 2	1	0	0	1	0	1	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	1	0	0	0	1	0	0	0	0	0
## 5	1	0	0	1	1	0	0	1	0	0	0	0	0
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0
##	PKM	KCNK3	FZD7	RALGDS	GSK3B	CCDC14	PEA15	SUMO2	BRCA1	SYT2	NOTCH2	GRIN1	POU3F4
## 1	1	0	0	0	1	0	0	0	0	0	0	0	1

## 2	1	0	1	0	0	0	0	0	0	0	0	0	0
## 3	0	0	1	0	1	0	0	0	0	0	0	0	0
## 4	1	0	1	0	1	0	0	0	0	0	0	0	0
## 5	1	0	1	0	1	0	0	0	0	1	0	0	0
## 6	1	0	1	0	1	0	0	0	0	1	0	0	0
##	LCK	FXR2	RPL13	KPNA2	PRDX1	FN1	ESRRA	ITPKB	RAP1GAP	TRIM37	DLGAP4	RAC1	RB1
## 1	1	1	1	1	1	0	0	0	1	1	1	0	0
## 2	1	1	1	0	0	0	0	0	1	1	0	0	0
## 3	1	0	1	0	1	0	0	0	1	0	0	0	0
## 4	1	1	1	1	1	0	0	0	1	1	1	0	0
## 5	1	1	1	0	0	0	0	0	1	1	1	0	0
## 6	1	1	1	0	0	0	0	0	1	0	0	0	0
##	TNFSF11	ASCC2	RCC1	XRN1	PRKCE	HDAC4	SLC9A3R2	CALR	BCAR1	HIPK2	ESR1	RNF4	ANXA7
## 1	0	0	0	0	0	1	0	0	0	0	1	1	0
## 2	0	0	0	0	0	1	0	0	0	0	0	0	0
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0
## 4	0	0	0	0	0	1	0	0	0	0	0	0	0
## 5	0	0	0	0	0	1	0	0	0	0	0	1	0
## 6	0	0	0	0	0	1	0	0	0	0	0	0	0
##	TUBA4A	TFPI2	CALM1	CCNT1	STX4	MAPK6	COPB1	PRSS2	ZFYVE9	RHOQ	TAF1	EEF1A1	SHPRH
## 1	1	0	0	0	1	0	1	1	1	0	0	1	1
## 2	0	0	0	0	1	0	1	0	0	0	0	1	1
## 3	0	0	0	0	1	0	1	0	0	0	0	1	0
## 4	0	0	0	0	1	0	1	0	1	0	0	1	1
## 5	0	0	0	0	1	0	1	0	1	0	0	1	1
## 6	0	0	0	0	1	0	1	0	1	0	0	1	1
##	PPP1CA	AR	ZAP70	AR	SPTAN1	ATN1	GSTP1	PIK3R1	RIPK2	MCM2	CSNK2A1	PARD6A	IGSF1
## 1	0	1	0	0	1	0	0	1	1	0	0	0	0
## 2	0	1	0	0	1	0	0	1	1	0	0	0	0
## 3	0	0	0	1	1	0	0	1	0	0	0	0	0
## 4	0	1	0	0	1	1	0	1	1	0	0	0	0
## 5	0	1	0	0	1	1	0	1	1	0	0	0	1
## 6	0	0	0	1	1	1	0	1	1	0	0	0	0
##	TBP	MAPK14	KCTD13	CHEK1	MAD1L1	POLR1A	LYN	SLC22A11	PAX3	CHD3	MDM2	CDC42	CDX2
## 1	0	0	0	1	1	1	0	0	1	1	1	1	0
## 2	0	0	0	0	0	1	0	0	1	1	0	1	0
## 3	0	0	0	0	0	1	0	0	1	1	0	0	0
## 4	0	0	0	1	0	1	0	0	1	1	1	1	0
## 5	0	0	0	1	0	1	0	0	1	1	1	1	0
## 6	0	0	0	1	0	1	0	0	1	1	0	1	0
##	NOSIP	EPB42	RAB11FIP2	PTN	DNAJB1	HMGA1	CHUK	ANXA5	AXIN1	ASGR1	XRCC6	RELA	
## 1	0	1	0	0	0	1	0	0	0	0	1	0	
## 2	0	1	0	0	0	1	1	0	0	0	0	0	
## 3	0	1	0	0	0	1	0	0	0	0	0	0	
## 4	1	1	0	0	0	1	1	0	0	0	0	0	
## 5	0	1	0	0	1	1	1	0	0	0	0	0	
## 6	0	1	0	0	0	1	0	0	0	0	0	0	
##	PTPRH	CXCR2	GRM3	RNF11	HMGB1	REPS1	IL12RB2	FHOD1	ITGAV	FGF2	NR3C1	SAFB2	YWHAG
## 1	1	0	0	0	0	1	0	1	1	1	0	1	1
## 2	1	0	0	0	0	1	0	0	1	1	0	0	0
## 3	0	0	0	0	0	1	0	0	1	1	0	0	0
## 4	1	0	0	0	0	1	0	0	1	1	0	0	0
## 5	1	0	0	0	0	1	1	1	1	1	0	0	0
## 6	1	0	0	0	0	1	0	0	1	1	1	0	0

##	CHEK2	BCOR	EHMT2	NR3C2	ARHGAP21	VTN	RGS2	ARR3	KCNQ5	LYN	GOPC	ABI1	QTRT1	PEX13	
## 1	1	0	0	0		0	1	1	1	0	0	0	0	1	0
## 2	0	0	1	0		0	1	0	0	0	0	0	0	0	0
## 3	0	0	0	0		0	1	0	0	0	0	0	0	0	0
## 4	0	0	1	0		0	1	0	0	0	0	0	1	0	0
## 5	1	0	0	0		0	1	0	0	0	0	1	0	0	0
## 6	0	0	1	0		0	1	0	0	0	0	0	0	0	0
##	VSIR	SNCG	SKIL	CDK4	CCN5	PTK2	SRSF4	DNPEP	APPL1	UBA1	CSNK2A1	GPRASP1	CHEK2		
## 1	0	0	1	0	1	0	0	0	0	0		0	0	0	
## 2	0	0	0	1	1	0	0	0	0	0		0	0	0	
## 3	0	0	0	1	0	0	0	0	0	0		0	0	0	
## 4	0	0	1	1	1	0	0	0	0	0		0	0	0	
## 5	0	0	0	1	1	0	1	0	0	0		0	0	0	
## 6	0	0	0	1	1	0	0	0	0	0		0	0	0	
##	SOX10	PHC1	PDGFRB	TGFBR1	EPHB6	KANSL1	YWHAZ	LMO3	TGFBR1	RBM48	C8orf33	PRKAR1A			
## 1	0	0	0	0	0	0	0	1	0	1	0	0	0		
## 2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
## 4	0	0	0	0	0	0	0	1	0	1	0	0	0	0	
## 5	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	1	1	0	0	0	0	0	
##	CHMP4C	CYTH2	HNRNPL	CHMP4B	DHX9	TEK	CHD3	UBE2I	DNM1	UBQLN4	SST	PRKCE	ACVR1B		
## 1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	
## 2	0	0	0	1	0	1	0	1	0	0	0	0	0	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
## 4	0	0	0	1	1	1	0	1	0	0	0	0	0	0	
## 5	0	0	0	1	1	1	0	1	0	0	0	0	0	0	
## 6	0	0	0	1	0	1	0	1	0	0	0	0	0	0	
##	ILF3	CTSB	ZAP70	KAT7	ZNF135	DDR1	ARFIP1	ZAP70	GSK3A	VIM	EZR	FYN	RAF1	EPHA3	
## 1	0	1	0	1	1	1	0	0	0	1	0	0	1	0	
## 2	0	0	0	1	1	1	0	0	0	0	0	0	1	0	
## 3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	1	1	1	0	0	0	1	0	0	1	0	
## 5	0	0	0	1	1	1	0	0	0	1	0	1	1	0	
## 6	0	0	0	1	1	1	0	0	0	0	0	0	1	0	
##	ANK1	ERBB4	ENO2	TRADD	RPN2	ACTG1	TRIM24	INPP5D	XPC	TNPO1	WASL	LAT	MAP3K14		
## 1	1	0	0	0	0	1	0	0	1	1	0	0	0	0	
## 2	1	0	0	0	0	1	0	0	0	1	0	0	0	0	
## 3	1	0	0	0	0	1	0	0	0	1	0	0	0	0	
## 4	1	0	0	0	0	1	0	0	1	1	0	0	0	0	
## 5	1	0	0	0	0	1	0	0	0	1	0	0	0	0	
## 6	0	0	0	0	0	1	0	0	0	1	0	0	0	0	
##	HNRNPH3	COPS5	RASD2	COL17A1	IK	NRXN2	MITF	IGFBP1	ITGAL	LYST	TUBA4A	RTN3			
## 1	1	0	1	0	1	0	0	0	0	0	0	0	1		
## 2	1	0	1	0	1	0	0	0	0	0	0	0	1		
## 3	1	0	1	0	1	0	0	0	0	0	0	0	0		
## 4	1	0	1	0	1	0	0	0	0	0	0	0	0		
## 5	1	0	1	0	1	0	0	0	0	0	0	0	0		
## 6	1	0	1	0	1	0	0	0	0	0	0	0	0		
##	S100A1	CAV3	LRP8	PRKDC	ZNF512B	HPCAL4	EPB41	EIF4E	CALM3	KIT	MAPK6	ARNTL	STAT3		
## 1	0	0	0	0	0	1	0	0	0	1	0	1	0	0	
## 2	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
## 3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	
## 4	0	0	0	0	0	1	0	0	0	0	0	1	0	0	

## 5	0	1	0	0	0	1	0	0	0	0	0	1	0
## 6	0	0	0	0	0	1	0	0	0	0	0	1	0
##	HMMR	DYNLL1	RELA	CEP126	PRKCA	XRCC6	ATM	UBE2I	CASP8	NCOA1	TBP	PDCD6IP	MED25
## 1	1	1	1	1	1	0	0	1	0	1	0	1	0
## 2	0	1	0	0	1	0	0	0	0	0	0	1	0
## 3	0	1	0	0	1	0	0	1	0	0	0	0	0
## 4	1	1	1	0	1	0	0	1	0	1	0	1	0
## 5	1	1	1	0	1	0	0	1	0	1	0	1	0
## 6	1	1	0	0	1	0	0	1	0	1	0	0	0
##	HRAS	ACTB	NRIP1	DCN	DLG4	SRC	STK35	PAFAH1B1	BCL2L1	OS9	PNKP	CD40	OSGEP
## 1	0	1	0	0	0	0	0	0	1	1	0	1	0
## 2	0	1	0	0	0	0	0	1	0	1	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	1	0	0	0	0	0	0	0	1	0	0	1
## 5	0	1	0	0	0	0	1	0	0	0	0	0	1
## 6	0	1	0	0	0	0	0	0	0	0	0	0	1
##	DNAJB6	NRG1	GRB10	DDX39A	POLR2M	GFRA1	CRHR1	JUNB	MYC	PRRC2A	CBLB	NCS1	AKAP8L
## 1	1	1	1	1	0	0	0	0	0	1	0	0	1
## 2	1	0	0	1	0	0	0	0	0	1	0	0	1
## 3	0	0	0	1	0	0	0	0	0	1	0	0	1
## 4	1	1	0	1	0	0	0	0	0	1	0	1	1
## 5	1	0	1	1	0	0	0	0	0	1	0	0	1
## 6	1	0	0	1	0	0	0	0	0	1	0	0	1
##	COL26A1	UBR1	HTR2B	PRKAR1A	CACNA1B	PPP1CC	PLXNB3	COPS5	PRLR	EP300	GLB1	TLN1	
## 1	0	0	1	0	1	1	1	1	1	1	1	0	0
## 2	0	0	0	0	1	1	1	1	1	1	1	0	0
## 3	0	0	0	0	1	1	1	1	1	0	1	0	0
## 4	0	0	1	0	1	1	1	1	1	1	1	0	0
## 5	0	0	1	0	1	1	1	1	1	1	1	0	0
## 6	0	0	1	0	1	1	1	1	1	1	1	0	0
##	TNFRSF11A	PARP2	SIL1	SMAD3	PAFAH1B3	COPS6	LDLRAP1	PLCG1	MCM7	RHEB	CRELD2	DXO	
## 1	0	0	0	1	1	1	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	1	0	0	0	0	0	0	0
## 5	0	0	0	0	0	1	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0
##	PSMC5	ERG28	WIPF1	GIT1	EEF1G	EP300	RAP1GDS1	MED8	TNIP1	NCK1	NFKBIZ	BMPR1B	
## 1	1	1	1	0	0	0	1	0	1	1	0	1	
## 2	0	1	0	0	0	0	0	0	1	1	0	1	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	0	0	0	0	0	0	1	1	0	1	
## 5	1	0	0	0	0	0	0	0	1	1	0	1	
## 6	1	0	0	0	0	0	0	0	1	1	0	0	
##	IQGAP2	INPP5K	SNTA1	FUT4	TAF1	CBL	BEND7	IP08	SYT4	BCAR1	CHEK2	TNFRSF10B	
## 1	1	1	0	0	0	1	0	1	0	1	0	0	
## 2	1	1	0	0	0	1	0	1	0	1	0	0	
## 3	0	0	0	0	0	1	0	1	0	1	0	0	
## 4	1	1	0	0	0	1	1	1	0	1	0	0	
## 5	1	1	0	0	0	1	0	1	0	1	0	0	
## 6	1	0	0	0	0	1	0	1	0	1	0	0	
##	APBB1IP	CD14	IRS1	PRKX	SHC1	RPL8	CENPB	GAS1	PRKRA	SEMA5B	UBQLN1	PRKCA	PDPK1
## 1	0	1	1	0	1	1	1	0	0	1	0	0	0
## 2	0	1	1	0	1	0	0	0	0	1	0	0	0

## 3	0	1	1	0	1	0	0	0	0	1	0	0	0		
## 4	0	1	1	0	1	1	0	1	0	1	0	0	0		
## 5	0	1	1	0	1	1	1	1	0	1	0	0	0		
## 6	0	1	1	0	1	1	0	0	0	1	0	0	0		
##	RPS6KA6	PTPRC	SLC8A2	FBP1	PVR	FADD	RSPH14	NGFR	UBQLN1	ACTC1	AKT2	CALR	GLB1		
## 1	1	1	0	0	0	0	0	0	0	1	1	1	1		
## 2	1	1	0	0	0	0	0	0	0	1	1	1	0		
## 3	1	0	0	0	0	0	0	0	0	0	1	1	0		
## 4	1	1	0	0	0	0	0	0	0	1	1	1	0		
## 5	1	1	0	0	0	0	0	0	0	1	1	1	0		
## 6	1	0	0	0	0	0	0	0	0	1	1	1	0		
##	VCP	PFDN1	L1CAM	KIAA1217	RPN1	MME	ITGA5	CDK12	PXN	CHUK	LAT	TP53	ACKR2	NGFR	
## 1	1	1	1	0	1	1	0	1	1	0	1	1	0	1	
## 2	0	0	1	0	1	1	0	0	0	0	1	0	0	1	
## 3	0	0	1	0	1	0	0	0	0	0	1	0	0	0	
## 4	0	0	1	0	1	1	0	1	0	0	1	1	0	1	
## 5	0	0	1	0	1	1	0	0	1	0	1	1	0	1	
## 6	0	0	1	0	1	1	0	0	0	0	1	1	0	1	
##	PKN1	MAPK1	IFNAR1	ZCCHC10	PIK3CA	RXRA	MAP3K5	S100A1	CSF2RB	SATB1	CTNNB1	NDRG1			
## 1	0	0	0	0	0	0	0	1	0	1	0	1			
## 2	0	0	0	0	0	0	0	1	0	0	0	0			
## 3	0	0	0	0	0	0	0	1	0	0	0	0			
## 4	0	0	0	0	0	0	0	1	1	1	0	0			
## 5	0	0	0	0	0	0	0	1	0	1	0	0			
## 6	0	0	0	0	0	0	0	1	0	0	0	0			
##	RGS1	MCRS1	COL4A3	DNAJB1	TRAF6	TLN1	SP1	FEZ1	AR	CNTROB	PLTP	VDR	VCP	EPS8	PTN
## 1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	1
## 2	1	0	1	1	1	0	0	1	1	0	0	1	0	1	0
## 3	1	0	1	0	1	0	0	1	1	0	0	1	0	1	1
## 4	1	0	1	1	1	0	1	1	1	0	0	1	0	1	1
## 5	1	0	1	1	1	0	1	1	1	0	0	1	0	1	0
## 6	1	0	1	0	1	0	0	1	1	0	0	1	0	1	1
##	TOPBP1	HDAC1	CDK3	DST	ATP5F1B	GORASP2	MCM10	IRS1	RAB11FIP2	GAS1	SMN2	CCL5			
## 1	1	1	0	0	0	0	0	1	1	1	0	0			
## 2	0	0	0	0	0	0	0	1	1	0	0	0			
## 3	0	0	0	0	0	0	0	0	1	1	0	0			
## 4	0	0	0	0	0	0	0	1	1	1	0	0			
## 5	0	0	0	0	0	0	0	1	1	1	0	0			
## 6	0	0	0	0	0	0	0	1	1	0	0	0			
##	MAPKAPK2	FYN	CAPN1	TRAF2	PTPN11	PSMC1	PTK2	SSPOP	NCOR1	INSR	ITGB7	ABL1	DBF4		
## 1	0	0	0	0	0	0	0	1	0	0	0	1	0		
## 2	0	0	0	0	0	0	0	1	0	0	0	1	0		
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0		
## 4	0	0	0	0	0	0	0	1	0	0	0	1	0		
## 5	0	0	0	0	0	0	0	1	0	0	0	0	0		
## 6	0	0	0	0	0	0	0	1	0	0	0	0	0		
##	CDC37	OPRK1	PTK2	SIAH1	HDAC7	HSP90AA1	VEGFD	TUBA1A	PSMD11	PRKACA	MMP11	DEK			
## 1	1	0	0	0	0	0	0	0	1	1	1	1			
## 2	1	0	0	0	0	0	0	0	1	1	1	1			
## 3	0	0	0	0	0	0	0	0	1	1	1	1			
## 4	1	0	0	0	0	0	0	0	1	1	1	1			
## 5	1	0	1	0	0	0	0	0	1	1	1	1			
## 6	1	0	0	0	0	0	0	0	1	1	1	1			
##	RGS7	PRSS23	GZMB	SF1	AQP4	ITGB1	DAB1	ATP5IF1	ESR1	MYC	BMP6	ODF1	IL18RAP	OFD1	

## 1	0	1	0	0	1	0	1	1	0	1	1	1	1	0
## 2	1	1	0	0	1	0	1	1	0	0	0	1	1	0
## 3	0	0	0	0	1	0	1	1	0	0	0	1	1	0
## 4	0	1	0	0	1	0	1	1	0	0	1	1	1	0
## 5	0	1	0	0	1	0	1	1	0	0	1	1	1	0
## 6	0	1	0	0	1	0	1	1	0	0	0	1	1	0
##	SLC8A1	BMPT1B	NOTCH2	FIBP	INPPL1	CD47	PLCG2	CNTNAP2	RGS7	SRF	WDR73	ARF6		
## 1	0	1	0	1	0	0	0	1	0	1	0	1		
## 2	0	0	0	1	0	0	0	1	0	1	0	0		
## 3	0	0	0	1	0	0	0	0	0	0	0	0		
## 4	0	1	0	1	0	1	0	1	0	1	0	1		
## 5	0	1	0	1	0	0	0	1	0	1	0	1		
## 6	0	1	0	1	0	0	0	1	0	1	0	1		
##	SLC35E1	PTPN11	NTRK2	MAGI3	RXRA	SALL1	STX11	PLSCR1	TP53	TNFRSF1A	COG5	DLG1		
## 1	0	0	1	0	1	1	0	0	0	0	0	0		
## 2	0	0	0	0	1	1	0	0	0	0	0	0		
## 3	0	0	0	0	1	1	0	0	0	0	0	0		
## 4	0	0	0	0	1	1	0	0	0	0	0	0		
## 5	0	0	0	0	1	1	0	0	0	0	0	0		
## 6	0	0	0	0	1	1	0	0	0	0	0	0		
##	FGFR4	LURAP1	VCL	PRKCA	FER	CKM	PRKCD	AKAP13	CENPB	RHO	TNFRSF8	CBX1	KIAA0408	
## 1	1	0	0	0	1	0	1	0	0	1	0	0	0	
## 2	1	0	0	0	1	0	0	0	0	1	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	1	0	0	0	1	0	0	0	0	1	0	0	0	
## 5	1	0	0	0	1	0	0	0	0	0	0	0	0	
## 6	1	0	0	0	1	0	0	0	0	0	0	0	0	
##	CAMK2A	NDN	EEF1G	DUSP6	ITGB4	PIP5K1A	NUDT3	NIF3L1	RACK1	SSTR3	HSPBP1	PRKN		
## 1	0	1	0	0	0	0	1	0	0	0	0	0		
## 2	0	1	0	0	0	0	1	0	0	0	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	1	0	0	0	0	0	0	0	0	0	0		
## 5	0	1	0	0	1	0	0	0	0	0	0	0		
## 6	0	0	0	0	0	0	0	0	0	0	0	0		
##	RHEBL1	TGFA	ZFPM2	IRF7	HSPA1A	PRPF40A	EPHA7	COPS6	RHOXF2	ITGB3	PTK2B	PTN		
## 1	0	1	0	0	1	1	1	0	0	0	0	0		
## 2	0	1	0	0	1	1	1	0	0	1	0	0		
## 3	0	1	0	0	1	1	0	0	0	0	0	0		
## 4	0	1	0	0	1	1	1	0	0	0	0	0		
## 5	0	1	0	0	1	1	1	0	0	1	0	0		
## 6	0	1	0	0	1	1	1	0	0	0	0	0		
##	PDGFRA	CFAP206	RNF2	DDX17	SIGLEC10	HIPK2	EEA1	PDGFRB	OLFM2	CD226	ACTR2	SNTB2		
## 1	0	0	0	1	0	0	0	0	0	0	0	0		
## 2	0	0	0	0	0	0	0	0	0	0	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	0	0	1	0	0	0	0	0	0	0	0		
## 5	0	0	0	1	0	0	0	0	0	0	0	0		
## 6	0	0	0	1	0	0	0	0	0	0	0	0		
##	COPS6	NRIP1	EFEMP1	ACVR1	ING4	SLC01A2	CALCR	MBD1	XPC	FXD6	ERCC2	EEF1G	DVL3	
## 1	1	0	0	1	0	0	1	0	0	0	0	0	0	
## 2	1	0	0	1	0	0	1	0	0	0	0	0	1	
## 3	1	0	0	0	0	0	1	0	0	0	0	0	1	
## 4	1	0	0	0	0	0	1	0	0	0	0	0	0	
## 5	1	0	0	0	0	0	1	0	0	0	0	0	0	

## 6	1	0	0	1	0	0	1	0	0	0	0	1	0
##	BTRC	INSR	PDCD6IP	CASP3	PRPF40A	ITGA1	FXYD6	KRTAP4-12	SMURF1	EEF1B2	CCNE1		
## 1	0	1	1	1	1	1	0		0	0	0	0	
## 2	0	1	0	1	1	1	0		0	0	0	1	
## 3	0	0	0	1	1	0	0		0	0	0	0	
## 4	0	1	1	1	1	0	0		0	0	0	0	
## 5	0	1	1	1	1	0	0		0	0	0	0	
## 6	0	0	0	1	1	0	0		0	0	0	0	
##	SERPINH1	MED31	RFX6	CERT1	WWP1	CENPB	NCOA3	SPRY2	LCK	DUSP1	LRP1	SERPINE1	SIX1
## 1		0	0	0	0	0	1	0	0	1	1	1	1
## 2		1	0	0	0	1	1	0	0	1	1	1	1
## 3		0	0	0	0	0	1	0	0	1	1	1	1
## 4		0	0	0	0	1	1	0	0	1	1	1	1
## 5		0	0	0	0	0	1	0	0	0	1	1	1
## 6		0	0	0	0	0	1	0	0	1	1	1	1
##	HLA-DRB1	PLSCR1	FOS	ATXN1	TNFRSF1A	TLE1	IL2RB	NGFR	RAC1	APOH	MSN	PEA15	NSG2
## 1		0	0	0		0	0	0	0	0	0	0	0
## 2		0	0	0		0	0	1	0	0	0	0	0
## 3		0	0	0		0	0	0	0	0	0	0	0
## 4		0	0	0	1	0	0	1	0	0	0	0	0
## 5		0	0	0		0	0	0	0	0	0	0	0
## 6		0	0	0		0	0	0	0	0	0	0	0
##	BAG6	ATXN3	MAPRE3	GPRIN2	PDIA3	GNA13	STX1A	SHC1	MAPK1	NACAD	XRN1	EWSR1	TRAF3
## 1	0	0	0	0	0	0	0	1	0	0	0	1	1
## 2	0	1	0	0	0	0	0	0	0	0	0	0	1
## 3	0	0	0	0	0	0	0	1	0	0	0	0	0
## 4	0	0	0	0	0	0	0	1	0	0	0	1	1
## 5	0	0	0	0	0	0	0	1	0	0	0	0	1
## 6	0	0	0	0	0	0	0	1	0	0	0	0	1
##	STAT6	ABI2	CALM3	BID	ADAM17	F11R	BMPR1B	AKAP3	POU2F1	XRN1	RUNX1	SMAD3	NA DRD3
## 1	0	0	0	0	1	0	0	1	0	1	0	0	1
## 2	0	0	0	0	1	0	0	0	0	1	0	0	0
## 3	0	0	0	0	1	0	0	0	0	1	0	0	0
## 4	0	0	0	0	1	0	0	0	0	1	0	0	0
## 5	0	0	0	0	1	0	0	0	0	1	0	0	0
## 6	0	0	0	0	1	0	0	0	0	1	0	0	0
##	CDH5	LCK	SYK	RBM48	CPE	LDLR	CASP8	SOX8	MAPK6	BCL3	TRPC4AP	TIFA	EGFR CD247
## 1	0	0	0	1	0	0	0	0	0	1	0	0	0
## 2	0	0	0	1	0	0	0	0	0	1	0	0	0
## 3	0	0	0	1	0	0	0	0	0	1	0	0	0
## 4	0	0	0	1	0	0	0	0	0	0	0	0	0
## 5	0	0	0	1	0	0	0	0	0	0	0	0	0
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0
##	HDAC1	NUDT3	HLA-A	CSNK2B	RAC1	PAFAH1B3	RUNX2	LSM6	TAB2	FOXG1	SBF1	POLR2D	
## 1	0	1	0	0	0		1	0	0	0	0	1	0
## 2	0	1	0	0	0		1	0	0	0	0	0	0
## 3	0	1	0	0	0		1	0	0	0	0	0	0
## 4	0	1	0	0	0		1	0	0	0	0	1	0
## 5	0	1	0	0	0		1	0	1	0	0	0	0
## 6	0	1	0	0	0		1	0	0	0	0	0	0
##	RAB3A	NCOA2	YWHAZ	RPL8	ITPR3	GSK3B	RAD23A	EPS15	GRIN2D	CASP2	B2M	FZR1	ACTA1
## 1	0	1	0	1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	1	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0

## 4	0	1	0	1	0	0	0	0	0	0	0	0	0	
## 5	0	0	0	1	0	0	0	0	0	0	0	0	0	
## 6	0	0	0	1	0	0	0	0	0	0	0	0	0	
##	NXF1	RAB14	MTOR	CD72	PTK2	CSNK2A2	MEST	DNPEP	HABP4	PEA15	NAA80	RAB13	DUSP23	
## 1	0	0	1	0	0	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	ARHGAP5	EP300	STAT3	SMAD1	NDUFA4L2	CASP3	MAP3K20	SDC3	CTBP1	TFAP2B	INSRR	RAC1		
## 1	0	0	0	0	0	0	0	1	1	0	1	0	1	
## 2	0	0	0	0	0	0	0	0	1	0	1	0	1	
## 3	0	0	0	0	0	0	0	0	0	0	1	0	1	
## 4	0	0	0	0	0	0	0	0	1	0	1	0	1	
## 5	0	0	0	0	0	0	0	1	1	0	1	0	0	
## 6	0	0	0	0	0	0	0	0	1	0	1	0	0	
##	RHOQ	SH3BP5L	PML	TNNT1	PABPC1	TRAF5	P4HB	SSRP1	IL36RN	PRSS23	MUTYH	UBA52	BLK	
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	DGKD	STK4	SMURF2	VCL	MYLK	SKP2	MLF1	IRAK1	TK1	ATP6VOC	TK1	BLM	EWSR1	SNAP23
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	1	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	1	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	1	0	0	0	0
##	SMAD2	CEP126	CALM1	PPM1B	AKT1S1	GNAQ	PTPN2	HLA-DMB	CDKN3	TRAIP	MYLK	HNF1A		
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	SRSF1	ING5	MAPK7	SMN1	NUDT18	EPHB2	ANGPT2	IL2RB	TERF2IP	EP300	ATP2B1	RAD18		
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	NOMO1	ESR1	TALDO1	YWHAG	RBM39	MED19	PFDN1	RIPK1	EXOSC10	LIFR	CBX1	APP	TBP	
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	1	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	DLG3	ICE1	CSF1R	PAK1	MAPK1	CASP9	EPHB6	CUL3	PRKCD	CALCOCO2	FOXO1	LDLR	TXK	
## 1	0	0	0	0	0	1	0	0	0	0	0	0	0	0

## 2	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	1	0	1	0	0	0	0	0
## 6	0	0	0	0	0	0	0	1	0	0	0	0	0
##	DMTN	PLCG1	MAGI1	ADAP1	NECAB2	IL12RB1	RARA	MAP4K2	GTF2B	NRXN1	MYOZ3	NFYB	CDK2
## 1	1	0	0	0	0	0	0	0	0	0	0	0	0
## 2	1	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	1	0	0	0	0	0	0	0	0	0	0	0	0
##	CSNK2A1	GRIN1	AFDN	BEGAIN	PLK4	PCDHA4	ERBB3	NRIP1	IFNGR2	TGFBR1	SELE	PPP2R1A	
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0
##	RHOQ	PRKAR1A	PAK1	LIMS1	PAX6	RANBP2	MXD1	DLG4	FCHSD2	EXOSC4	STX6	AKT1	HTR2C
## 1	0	1	0	0	0	0	0	0	1	0	0	1	0
## 2	0	1	0	0	0	0	0	0	0	0	0	0	0
## 3	0	1	0	0	0	0	0	0	0	0	0	0	0
## 4	0	1	0	0	0	0	0	0	0	0	0	0	0
## 5	0	1	0	0	0	0	0	0	0	0	0	1	0
## 6	0	1	0	0	0	0	0	0	0	0	0	0	0
##	MAPKBP1	SHC1	RXR	PIAS1	ARHGAP1	ZHX1	TNNT1	CRK	PLA2R1	GNB2	UBQLN4	RAD50	PRKCQ
## 1	0	0	0	0	0	1	0	0	0	1	0	0	0
## 2	0	0	0	0	0	1	0	0	0	1	0	0	0
## 3	0	0	0	0	0	1	0	0	0	1	0	0	0
## 4	0	0	0	0	0	1	0	0	0	1	0	0	0
## 5	0	0	0	0	0	1	0	0	0	1	0	0	0
## 6	0	0	0	0	0	1	0	0	0	1	0	0	0
##	HNRNPAB	DLG1	ACVR2B	BLOC1S6	NR3C1	PHYHIP	NTRK1	F11	TUBA1A	INSR	TK1	EZR	F2RL1
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	1	0	0	0	0	0	0	0	0	0	0	0	0
## 4	1	0	0	0	0	0	0	0	0	0	0	0	0
## 5	1	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0
##	CAMSAP1	PRKCZ	PSEN2	ATP6V1E1	NAPA	MACF1	SUCLG2	TRPC1	SERPINF1	PKP4	MAP3K5		
## 1	0	0	0	0	0	0	0	0	0	0	1		
## 2	0	0	0	0	0	0	0	0	0	0	1		
## 3	0	0	0	0	0	0	0	0	0	0	1		
## 4	0	0	0	0	0	0	0	0	0	0	1		
## 5	0	0	0	0	0	0	0	0	0	0	1		
## 6	0	0	0	0	0	0	0	0	0	0	1		
##	RASSF1	EPB42	NRXN1	TRIP12	BAD	AR	NKX2-1	ESR2	VAV3	TRAF2	TGFB1	NRP1	MAPK3
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0
## 3	0	0	1	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0

##	TAF15	SMAD3	ADRB2	HDAC3	VIM	HHIP	TRPV6	INS	MAPK9	SRC	GABRR1	TYK2	DAXX	HRAS
## 1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
## 2	0	0	0	0	0	0	1	0	0	1	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	1	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	1	0	0	0	0
##	PAAF1	MRTFB	RB1	TK1	ERG28	BMPR1B	FHL2	S100A7	IL18	RXRB	YHAZ	PTK2B	NR1H2	MCM3
## 1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
## 2	0	0	0	0	1	0	0	0	0	0	0	0	0	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	KRT7	KPNB1	ZNF205	EP300	CANX	NA	CRMP1	ITGAL	XRCC6	CNNM3	STAT3	ACVR2B	MAPK14	
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 2	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	
##	CAMSAP3	RASA1	PRKCD	C1D	PTEN	LNK1	TOX4	EGFR	ACTA1	MAPK3	FGFR2	CDH2	LRP2	IGHM
## 1	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	1	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	1	0
##	ARHGEF7	GNA11	PROS1	GADD45A	SRC	TGFBR1	MAGEB18	CALM3	PIN1	ERG	SMAD5	FZD8		
## 1	1	0	1	0	0	0	0	0	0	1	0	0		
## 2	1	0	0	0	0	1	0	0	0	1	0	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	1	0	0	0	0	0	0	0	0	0	0	0		
## 5	1	0	1	0	0	0	0	0	0	0	0	0		
## 6	0	0	0	0	0	0	0	0	0	0	0	0		
##	MAGEA11	BAG2	CALR	PRKACA	MCM7	RANBP10	MPP3	ZDHHC3	SNAPC4	DEAF1	IL36RN	EPS15		
## 1	0	0	0	0	0	0	0	1	0	0	1	0		
## 2	0	0	0	0	0	0	0	1	0	0	1	0		
## 3	0	0	0	0	0	0	0	0	0	0	0	0		
## 4	0	0	0	0	0	0	0	1	0	0	0	0		
## 5	0	0	0	0	0	0	0	1	0	0	0	0		
## 6	0	0	0	0	0	0	0	0	0	0	0	0		
##	PPARG	RELA	KCNJ9	NF2	AR	GZMB	THEG	EPHA5	LCK	PRKAR2A	PML	PAPPA	NUDT21	ADRB1
## 1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
## 2	0	0	0	0	0	0	0	0	0	1	0	0	0	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
## 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
##	IP05	HNRNPF	GDF9	NCF2	CRKL	PABPC1								
## 1	0	0	0	0	0	0								
## 2	0	0	0	0	0	0								
## 3	0	0	0	0	0	0								
## 4	0	0	0	0	0	0								

```
## 5    0    0    0    0    0    0
## 6    0    0    0    0    0    0
```

En la matriz PPI, clasificamos los 100 genes que mas se repiten, sumando la cantidad de veces que se repite cada Gen tanto en la columna **Input-node Gene Symbol** como en la columna **Output-node Gene Symbol**, se clasifican de manera descendente (de mayor a menor) y se toma el top 100 de muestras, esto se realiza con el codigo, estos genes seran los predictores de los modelos a implementar:

```
Agrupacion <- PPI %>% group_by(`Input-node Gene Symbol`) %>%
  summarise(NN = n()) %>%
  rename(`Gen`=`Input-node Gene Symbol`)

Agrupacion2 <- PPI %>% group_by(`Output-node Gene Symbol`) %>%
  summarise(NN = n()) %>%
  rename(`Gen`=`Output-node Gene Symbol`)

tabla_combinada <- bind_rows(Agrupacion, Agrupacion2) %>%
  group_by(`Gen`) %>%
  summarise(NN = sum(NN)) %>%
  arrange(desc(NN)) %>%
  top_n(101, NN)
```

Posteriormente eliminamos de la Matriz que incluye pacientes con tumor y sin tumor, aquellos genes que no se encuentran incluidos en el top 100 de genes de la Matriz PPI, resultando la **Matriz_final** con la que implementaremos nuestros modelos:

```
head(Matriz_Final)
```

```
##      sample_type TP53 CREBBP EP300 YWHAG SMAD3 GRB2 SRC AR ESR1 RB1 CSNK2A1
## 1 Primary Tumor    0      0      1      1      1      1  0  1  1  0      0
## 2 Primary Tumor    0      0      1      1      1      1  0  0  1  0      1
## 3 Primary Tumor    0      0      0      0      1      0  0  0  1  0      0
## 4 Primary Tumor    0      0      1      1      1      0  0  0  1  0      1
## 5 Primary Tumor    0      0      1      1      1      0  0  0  1  0      1
## 6 Primary Tumor    0      0      1      1      1      0  0  0  1  0      1
##      SMAD2 CDKN1A MAPK1 FYN HDAC1 PRKCA TK1 EGFR SMAD4 JUN CCDC85B MAPK6 GSK3B
## 1      1      1      0  0      0      1  0      0      1  0      1      0      0
## 2      1      1      0  0      1      0  1      0      0  0      1      0      0
## 3      1      1      0  0      0      0  0      0      0  0      1      0      0
## 4      1      1      0  0      1      0  0      0      1  0      1      0      0
## 5      1      1      0  0      1      0  0      1      1  0      1      0      0
## 6      1      1      0  0      1      0  0      1      1  0      1      0      0
##      PIK3R1 SMAD1 SHC1 TRAF2 YWHAZ CASP3 UBE2I SP1 VIM ATXN1 SMN1 UBQLN4 MAPK3
## 1      0      1      0      1      0      1      1  0      1      0      0      0      0
## 2      0      0      0      0      1      1      0  0      1      0      0      0      0
## 3      0      0      0      0      0      1      0  0      1      0      0      0      0
## 4      0      0      0      0      1      1      0  0      1      0      0      0      0
## 5      0      0      0      0      1      1      0  0      1      0      0      0      1
## 6      0      0      0      0      1      1      0  0      1      0      0      0      0
##      PRKACA TGFBR1 CSNK2B CALM1 SETDB1 YWHAB TBP BRCA1 RELA CTNNB1 LCK LYN RXRA
## 1      1      0      1      1      1      1  0      1      1      0      1      1      1
## 2      1      0      1      0      0      0  0      0      0      0      1      1      1
## 3      1      0      0      0      0      0  0      0      0      0      1      0      1
## 4      1      0      1      0      0      0  0      1      1      0      1      0      1
## 5      1      0      1      0      1      0  0      1      1      0      1      1      1
## 6      1      0      1      0      0      0  0      0      0      0      1      1      1
```

##	EEF1A1	AKT1	SMAD9	ANXA7	STAT3	PTPN11	NCOA1	PLCG1	ACTB	MDFI	EWSR1	PTK2	RAC1		
## 1	0	0	1	1	1	1	0	1	1	0	1	0	1		
## 2	0	0	1	1	1	0	0	0	0	0	1	0	1		
## 3	0	0	1	1	1	0	0	0	0	0	1	0	1		
## 4	0	0	1	1	1	1	0	0	1	0	1	0	1		
## 5	1	0	1	1	1	0	0	0	0	0	1	0	1		
## 6	0	0	1	1	1	0	0	0	0	0	1	0	1		
##	NFKB1	NR3C1	UNC119	ABL1	DLG4	ATN1	NCOR2	CDK2	CHD3	PRKCD	JAK2	MAPK14	TLE1		
## 1	1	1	1	0	1	1	1	0	0	1	1	1	1		
## 2	1	0	0	0	1	0	0	0	0	1	1	0	1		
## 3	0	0	0	0	0	0	0	0	0	0	0	0	1		
## 4	1	1	1	0	1	0	1	0	0	1	1	1	1		
## 5	1	1	1	1	1	0	1	0	0	1	1	1	1		
## 6	0	1	1	0	1	0	0	0	0	1	0	1	1		
##	XRCC6	CBL	INSR	MYC	PTN	ZBTB16	HCK	KAT5	VCL	CAV1	RAF1	STAT1	COPS6	KAT2B	PTPN6
## 1	0	1	0	1	0	1	0	0	0	0	0	0	0	1	1
## 2	0	0	1	1	0	0	1	0	0	0	0	0	0	1	1
## 3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
## 4	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1
## 5	0	1	0	0	0	0	1	0	0	0	0	0	0	1	1
## 6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
##	SKIL	SRF	MAPK8	PXN	ACTA1	NCOR1	PDPK1	PIN1	TRAF6						
## 1	0	1	1	1	0	1	1	0	1						
## 2	0	1	1	1	0	1	0	0	1						
## 3	0	0	0	0	0	1	0	0	0						
## 4	0	1	0	0	0	1	1	0	1						
## 5	0	1	0	0	0	1	1	0	1						
## 6	0	1	0	0	0	1	1	0	1						