

A Comprehensive Analysis of the Unfolded Protein Response in Breast Cancer Subtypes

Jiang et al

Table S1. Clinical properties of 1,182 patients in the TCGA invasive breast cancer dataset

							Stage											
ER +	PR +	HER2 +	LN +	MET +	Relapse	Age	I	IA	IB	II	IIA	IIB	III	IIIA	IIIB	IIIC	IV	X
77 %	67 %	15%	51 %	2%	9%	58 ± 13	7%	8%	1%	5%	32%	20%	2%	13%	3%	4%	2%	1%

LN: lymph node; MET: metastasis

Supplementary Information. Gene signatures used in the study

XBPI gene signature (gene symbol):

XBPI	RNF160	IL17RB	PNPLA6
RIT1	NR3C1	PPP4R2	ARFGEF2
PDE8A	SDF2L1	DDIT3	ELK4
TROVE2	SIK1	SLC6A6	SON
POLR3F	PDK1	GOLIM4	CAMKK2
MYST4	WDR7	ZFX	ENTPD7
DNAJB9	SLC1A4	CDK6	DPM3
EP400	WWC2	TOP1	PPIG
UBE2O	MAN1A2	NUAK1	RAB26
MAFG	RSL1D1	SIVA1	SIAH2
RSRC2	FLJ10213	AXL	DDX17
SCAMP1	BHLHE40	PPFIBP1	CCNE2
PMEPA1	RLF	ZNF292	ITFG2
GORASP1	ARL1	CCNG2	MTDH
LAMA1	TIMM17B	HIST1H1E	BRD2
PDIA5	CHSY1	EPRS	PCLO
YTHDC2	TAOK1	SETX	
ITGB1	ARHGEF10	EFNA1	

XBPI gene signature (Affymetrix HG-U133A probesets):

218098_at	ARFGEF2	208685_x_at	BRD2	203044_at	CHSY1
216620_s_at	ARHGEF10	213812_s_at	CAMKK2	218775_s_at	CLDN22 /// WWC2
201659_s_at	ARL1	205034_at	CCNE2	209383_at	DDIT3
202686_s_at	AXL	202769_at	CCNG2	208718_at	DDX17
201170_s_at	BHLHE40	207143_at	CDK6	202842_s_at	DNAJB9

219373_at	DPM3	204589_at	NUAK1	201964_at	SETX
202023_at	EFNA1	213558_at	PCLO	209339_at	SIAH2
214831_at	ELK4	212522_at	PDE8A	208078_s_at	SIK1
220153_at	ENTPD7	203857_s_at	PDIA5	203489_at	SIVA1
212375_at	EP400	206686_at	PDK1	212811_x_at	SLC1A4
200842_s_at	EPRS	217875_s_at	PMEPA1	205921_s_at	SLC6A6
204324_s_at	GOLIM4	203718_at	PNPLA6	214988_s_at	SON
215749_s_at	GORASP1	205218_at	POLR3F	216310_at	TAOK1
208553_at	HIST1H1E	203735_x_at	PPFIBP1	203342_at	TIMM17B
219255_x_at	IL17RB	208994_s_at	PPIG	208901_s_at	TOP1
214148_at LOC100507424	ITFG2 ///	220764_at	PPP4R2	212852_s_at	TROVE2
211945_s_at	ITGB1	50965_at	RAB26	218141_at	UBE2O
222346_at	LAMA1	209882_at	RIT1	212880_at	WDR7
204970_s_at	MAFG	204243_at	RLF	200670_at	XBP1
217922_at	MAN1A2	212018_s_at	RSL1D1	213077_at	YTHDC2
212251_at	MTDH	202302_s_at	RSRC2	214678_x_at	ZFX
201865_x_at	NR3C1	212416_at	SCAMP1	212368_at	ZNF292
		218681_s_at	SDF2L1		

ATF4/CHOP gene signature (gene symbol):

Angptl6	Gpt2	Eprs	Gnpnat1
Trib3	Cd74	Iars	2610528E23Rik
Ddit3	Aars	Lonp1	Sqstm1
Atf3	Otub2	Taf15	Ghitm
Slc7a11	Nars	Fam175a	Eif2s2
Cdsn	Aldh18a1	Slc20a1	Phyhd1
Hspa5	Tspyl4	2700007P21Rik	Clcn3
Aldh1l2	Yars	Dnaja3	D4Bwg0951e
Slc7a5	Lars	Fads3	Gtpbp2
Cyb5r1	Gars	Zfp238	A630007B06Rik
Nrip2	Sars	Ypel5	Krtcap2
Ppp1r15a	Xpot	Nfe2l1	Cxadr
Wars	Abcc4	Cdh24	Cebpg
Atf5	Ero1l	Deb1	Ddr2
Acot2	Akna	Ascc2	Leprotil1
Mthfd2	Mtml	Atf6	Ick
Paqr3	Bcat2	Nfu1	Ift172

Arhgef2	Pnrc2	Tab2	Ptn
Ube2g2	Hdac8	Agap1	Dysf
Tmem11	Vars	Tbp11	Emilin1
Vldlr	Hfe	Snai2	Dusp6
Eif3c	Prdm15	Jhdml1d	Has2
Zc3hav1	Erlin1	Zfp598	
Dpf2	Steap1	1810031K17Rik	
Lgals3	Stc2	Pacsin2	

ATF4/CHOP gene signature (Affymetrix HG-U133A probesets):

201000_at	AARS	200842_s_at	EPRS	201651_s_at	PAC SIN2
203196_at	ABCC4	202441_at	ERLIN1	213372_at	PAQR3
202982_s_at	ACOT1 /// ACOT2	218498_s_at	ERO1L	37028_at	PPP1R15A
204066_s_at	AGAP1	204257_at	FADS3	209466_x_at	PTN
217791_s_at	ALDH18A1	208693_s_at	GARS	200802_at	SARS
209435_s_at	ARHGEF2	209249_s_at	GHITM	201920_at	SLC20A1
215684_s_at	ASCC2	221050_s_at	GTPBP2	209921_at	SLC7A11
202672_s_at	ATF3	206432_at	HAS2	201195_s_at	SLC7A5
204998_s_at	ATF5	206087_x_at	HFE	213139_at	SNAI2
203952_at	ATF6	211936_at	HSPA5	201471_s_at	SQSTM1
203576_at	BCAT2	204744_s_at	IARS	203438_at	STC2
209619_at	CD74	204569_at	ICK	205542_at	STEAP1
206192_at	CDSN	221778_at	JHDM1D	212184_s_at	TAB2
204203_at	CEBPG	217810_x_at	LARS	202840_at	TAF15
201734_at	CLCN3	202594_at	LEPROTL1	208398_s_at	TBPL1
203917_at	CXADR	208949_s_at	LGALS3	203437_at	TMEM11
202263_at	CYB5R1	217779_s_at	LOC100996626 ///	218145_at	TRIB3
209383_at	DDIT3	PNRC2		212928_at	TSPYL4
205168_at	DDR2	209017_s_at	LONP1	209042_s_at	UBE2G2
205963_s_at	DNAJA3	201761_at	MTHFD2	201797_s_at	VARS
202116_at	DPF2	36920_at	MTM1	209822_s_at	VLDLR
208891_at	DUSP6	200027_at	NARS	200629_at	WARS
218660_at	DYSF	200759_x_at	NFE2L1	212160_at	XPOT
208726_s_at	EIF2S2	218946_at	NFU1	212048_s_at	YARS
200647_x_at	EIF3C /// EIF3CL	215104_at	NRIP2	217783_s_at	YPEL5
204163_at	EMILIN1	219369_s_at	OTUB2	213051_at	ZC3HAV1

HIF1 α gene signature (gene symbol):

VEGFA
SLC2A1
RORB
PIK3CB
PIK3CA
PFKFB3
PDK1
NDRG1
KDM3A
HK2
EGLN1
DDIT4
CREBBP

HIF1 α gene signature (Affymetrix HG-U133A probesets):

202160_at	CREBBP
202887_s_at	DDIT4
221497_x_at	EGLN1
202934_at	HK2
212689_s_at	KDM3A
200632_s_at	NDRG1
206686_at	PDK1
202464_s_at	PFKFB3
204369_at	PIK3CA
212688_at	PIK3CB
206443_at	RORB
201250_s_at	SLC2A1
210512_s_at	VEGFA