

## SUPPLEMENTAL MATERIALS

Oshi et al. "CD8 T cell score as a prognostic biomarker for triple negative breast cancer"

### Contents

Table S1: Symbols and names of genes that constitute the CD8 T cells score.

Figure S1: Association of CD8 score with disease-specific survival in high and low *MKI67* expression of ER-positive breast cancer, and luminal A and B subtypes.

**Table S1.** Symbols and names of genes that constitute the CD8 T cells score.

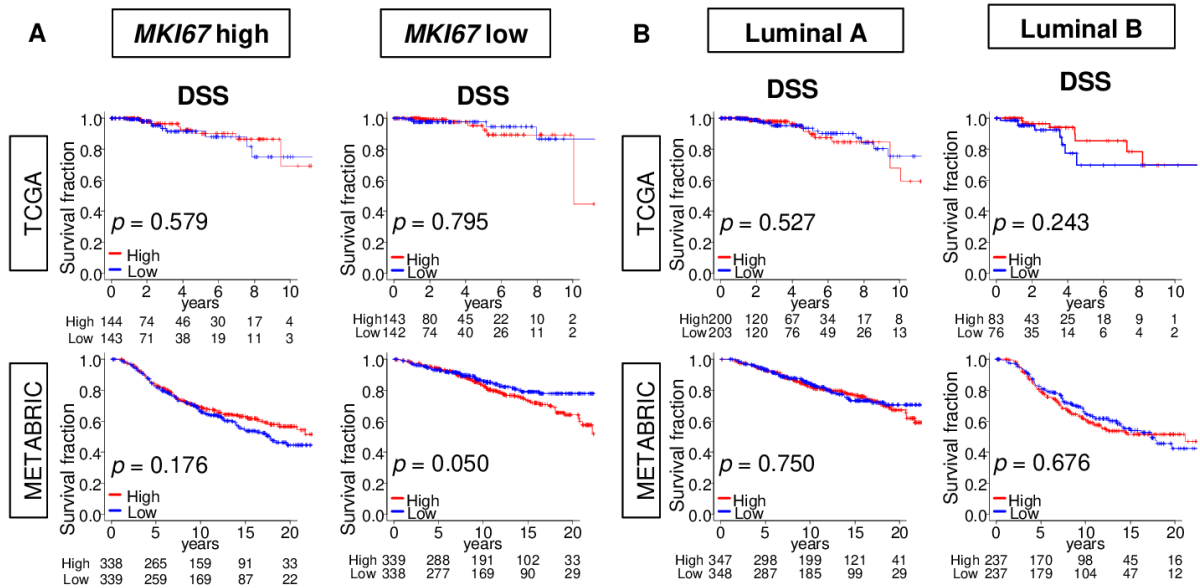
<b>Gene Symbol</b>	<b>Gene Name</b>
<i>AAK1</i>	AP2 associated kinase 1
<i>APBB1</i>	amyloid beta precursor protein binding family B member 1
<i>ARHGEF1</i>	Rho guanine nucleotide exchange factor 1
<i>BTN2A1</i>	butyrophilin, subfamily 2, member A1
<i>C7orf26</i>	chromosome 7 open reading frame 26
<i>CA6</i>	carbonic anhydrase 6
<i>CASP8</i>	caspase 8
<i>CBY1</i>	chibby family member 1, beta catenin antagonist
<i>CCDC25</i>	coiled-coil domain containing 25
<i>CCDC53</i>	coiled-coil domain containing 53
<i>CCR7</i>	C-C motif chemokine receptor 7
<i>CD160</i>	CD160 molecule
<i>CD27</i>	CD27 molecule
<i>CD3D</i>	CD3d molecule
<i>CD7</i>	CD7 molecule
<i>CD8A</i>	CD8a molecule
<i>CD8B</i>	CD8b molecule
<i>CD96</i>	CD96 molecule
<i>CEPT1</i>	choline/ethanolamine phosphotransferase 1
<i>CIAPIN1</i>	cytokine induced apoptosis inhibitor 1
<i>CLUAP1</i>	clusterin associated protein 1
<i>COG2</i>	component of oligomeric golgi complex 2
<i>COPZ1</i>	coatamer protein complex subunit zeta 1
<i>CRTAM</i>	cytotoxic and regulatory T cell molecule
<i>CTSW</i>	cathepsin W
<i>CX3CR1</i>	C-X3-C motif chemokine receptor 1
<i>DHX15</i>	DEAH-box helicase 15
<i>DIDO1</i>	death inducer-obliterator 1
<i>DNAJB1</i>	DnaJ heat shock protein family (Hsp40) member B1
<i>DPP8</i>	dipeptidyl peptidase 8
<i>DSC1</i>	desmocollin 1
<i>EEF1D</i>	eukaryotic translation elongation factor 1 delta
<i>EML3</i>	EMAP like 3
<i>FAM134C</i>	family with sequence similarity 134, member C
<i>FBXW4</i>	F-box and WD repeat domain containing 4
<i>FKTN</i>	fukutin
<i>FNBP4</i>	formin binding protein 4
<i>FTO</i>	FTO alpha-ketoglutarate dependent dioxygenase

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<i>GGNBP2</i>	gametogenetin binding protein 2
<i>GIMAP4</i>	GTPase, IMAP family member 4
<i>GJC2</i>	gap junction protein gamma 2
<i>GZMH</i>	granzyme H
<i>GZMK</i>	granzyme K
<i>GZMM</i>	granzyme M
<i>HNRNPA0</i>	heterogeneous nuclear ribonucleoprotein A0
<i>HNRNPL</i>	heterogeneous nuclear ribonucleoprotein L
<i>IL16</i>	interleukin 16
<i>IPCEF1</i>	interaction protein for cytohesin exchange factors 1
<i>IRF3</i>	interferon regulatory factor 3
<i>KLHL3</i>	kelch like family member 3
<i>KLRB1</i>	killer cell lectin like receptor B1
<i>KLRG1</i>	killer cell lectin like receptor G1
<i>KRT2</i>	keratin 2
<i>LAIR2</i>	leukocyte-associated immunoglobulin-like receptor 2
<i>LSM14A</i>	LSM14A mRNA processing body assembly factor
<i>LY9</i>	lymphocyte antigen 9
<i>MED17</i>	mediator complex subunit 17
<i>MKRN2</i>	makorin ring finger protein 2
<i>MMP19</i>	matrix metalloproteinase 19
<i>MSL3</i>	male-specific lethal 3 homolog
<i>MTRF1</i>	mitochondrial translation release factor 1
<i>MYOM1</i>	myomesin 1
<i>NAA16</i>	N(alpha)-acetyltransferase 16, NatA auxiliary subunit
<i>NDFIP1</i>	Nedd4 family interacting protein 1
<i>NDUFS2</i>	NADH:ubiquinone oxidoreductase core subunit S2
<i>NFKB1</i>	nuclear factor kappa B subunit 1
<i>NKRF</i>	NFKB repressing factor
<i>NPAT</i>	nuclear protein, coactivator of histone transcription
<i>NPRL2</i>	NPR2 like, GATOR1 complex subunit
<i>PCNT</i>	pericentrin
<i>PFN2</i>	profilin 2
<i>PLCG1</i>	phospholipase C gamma 1
<i>PLXDC1</i>	plexin domain containing 1
<i>POLR3E</i>	RNA polymerase III subunit E
<i>POP5</i>	POP5 homolog, ribonuclease P/MRP subunit
<i>PRL</i>	prolactin
<i>PRMT2</i>	protein arginine methyltransferase 2
<i>PRPF4B</i>	pre-mRNA processing factor 4B
<i>PSD</i>	pleckstrin and Sec7 domain containing
<i>PTGDR</i>	prostaglandin D2 receptor
<i>PTPN4</i>	protein tyrosine phosphatase non-receptor type 4
<i>PURA</i>	purine rich element binding protein A
<i>RAPGEF6</i>	Rap guanine nucleotide exchange factor 6
<i>RASA2</i>	RAS p21 protein activator 2
<i>RBL2</i>	RB transcriptional corepressor like 2
<i>RBM34</i>	RNA binding motif protein 34
<i>RING1</i>	ring finger protein 1
<i>RNF113A</i>	ring finger protein 113A
<i>RPL37A</i>	ribosomal protein L37a
<i>RWDD3</i>	RWD domain containing 3
<i>S100B</i>	S100 calcium binding protein B
<i>SDAD1</i>	SDA1 domain containing 1
<i>SDCCAG3</i>	serologically defined colon cancer antigen 3
<i>SFPQ</i>	splicing factor proline and glutamine rich

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<i>SHANK1</i>	SH3 and multiple ankyrin repeat domains 1
<i>SIRPG</i>	signal-regulatory protein gamma
<i>SLC1A7</i>	solute carrier family 1 member 7
<i>SSTR3</i>	somatostatin receptor 3
<i>TBCC</i>	tubulin folding cofactor C
<i>TMEM41B</i>	transmembrane protein 41B
<i>TOMM7</i>	translocase of outer mitochondrial membrane 7
<i>TRAF3IP3</i>	TRAF3 interacting protein 3
<i>TSPAN32</i>	tetraspanin 32
<i>TTN</i>	titin
<i>UBE2Q1</i>	ubiquitin conjugating enzyme E2 Q1
<i>UBQLN2</i>	ubiquilin 2
<i>USP47</i>	ubiquitin specific peptidase 47
<i>UTP20</i>	UTP20 small subunit processome component
<i>WDR82</i>	WD repeat domain 82
<i>YLPM1</i>	YLP motif containing 1
<i>ZBTB11</i>	zinc finger and BTB domain containing 11
<i>ZC3HAV1</i>	zinc finger CCCH-type containing, antiviral 1
<i>ZNF154</i>	zinc finger protein 154
<i>ZNF200</i>	zinc finger protein 200
<i>ZNF611</i>	zinc finger protein 611
<i>ZNF639</i>	zinc finger protein 639



**Figure S1.** Association of CD8 score with disease-specific survival in high and low *MKI67* expression of ER-positive breast cancer, and luminal A and B subtypes. **(A)** Disease-Specific Survival (DSS) of CD8 score low (blue) vs. high (red) within *MKI67* high and low in ER-positive/HER2-negative breast cancer in both TCGA and METABRIC. **(B)** Disease-Specific Survival (DSS) of CD8 score low (blue) vs. high (red) within luminal A and luminal B in both cohorts. Kaplan-Meier survival curves with log-rank test was used to the analysis.