

tRNA am in

leukocyte m igratic leukocyte m ediated im m uni

leukocyte a or of im m une r

hum oral im mune resp

granulocyte activat B cell mediated immu

phago

cell m igrati

im port into c

nae to daRi

mmune system

RNA transcriptio

CD38

EPB41L3

NCF1 SQSTM1

0 1 2 3 4

am ino acid activi ion of immune system pro-

im mune effector p ation of im mune system p

ptor signaling pathway involved in ph

regulation of tym phoryte a nyeloid cell activation involved in im m une ru leukocyte activation involved in im m une ru basophil activation involved in im m une ru

e-activating cell surface receptor signaling pathw

IGKV3-15

FAM162A-

naı

Gene I

SNW1

WARS

KARS

TSTD1

MAPT

FLYWCH2-

SMCHD1-

PDCD6-

MAOB-

EIF3B-

YARS-

3.0

3.5

4.0

P value (-Log10)

4.5

5.0

TBC1D10C

KIAA1522



ARL1

HBA1

TE

COG7 APOC1

1. small molecule catabolic process

5. positive regulation of cell development

10. maintenance of protein location in cell

8. cytoskeleton-dependent intracellular transport

9. positive regulation of transmembrane transport

2. microtubule-based process

7. neurotransmitter transport

6. caveola

3. cell adhesion molecule binding

4. microtubule-based movement

TLN2 NUMA1 RAB13 LAP3 MAT2BPEPD SPTB PCM1 PNPT1 RARS2 SEC11C RNF213 PDGFRB SNX9 T. SORD XPNPEP1 M6PR APOC3 CSE1L SGCD RPIA UGDH TNKS1BP1 PARVA ROCK1



27. metabolic process

31. proteolysis

34. DNA replication

28. cellular response to stimulus 29. response to organic substance

32. inflammatory response

30. cellular response to chemical stimulus

35. negative regulation of defense response

HLA-E

MAPK9

PLD3

QDPR

TXNRD1

PRPS1

TALDO1

MAOB

ME1

33. regulation of leukocyte activation

36. leukocyte mediated cytotoxicity

Figure 2



YARS nCR (n=12)

nĊR

1

0

2 3

ĊR

nĊR

ĊR

nĊF



Figure 3



Ε





T47D

F

MDA-MB-231



Figure 4



Figure 5

Α







_	T47D						MDA-MB-231					
-	pLOC			YARS			pLOC			YARS		
H_2O_2	-	-	+	-	-	+	-	-	+	-	-	+
z-VAD	-	+	+	-	+	+	-	+	+	-	+	+
SM	-	+	+		+	+		+	+	<u> </u>	+	+
RIPK	•••		-	-	-	-		-			-	-
p-RIPK		-	-		-	1	1	-	=	-	=	٥.
MLKL	1	1	1	1	1	1	1	-	U	1	-	-
p-MLKL	H	14	14	64	H	×.		H	Ø.	-	H	1
RIPK3	-	-	-	1	-	1	-	-	1	1	•	-
p-RIPK3	Ħ	H	÷.	+4	**		-		10.0	-	-	1
GAPDH		-	-	1	-	i	1	-	i	1	-	-







BT-20











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Supplementary Figure S1
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Component1 (15.1%)





mRNA Expression, RSEM (Batch normalized from Illumina HiSeq_RNASeqV2) : MLKL (log2)







Α

T47D MDA-MB-231 pLOC YARS 100 -80 · Death (%) 60-40-Ļ Ļ Г 20 -0. z-VAD -+ -+

В





MBA-MB-231