Supplemental Table 3

Name	Size	NES	FDR q-val	AA vs EA
HALLMARK E2F TARGETS	193	2.81	<0.010	Upregulated
KEGG RIBOSOME	83	2.74	<0.010	Upregulated
GO RRNA METABOLIC PROCESS	239	2.73	<0.010	Upregulated
REACTOME PEPTIDE CHAIN ELONGATION	82	2.72	<0.010	Upregulated
GO ANAPHASE PROMOTING COMPLEX DEPENDENT CATABOLIC PROCESS	75	2.70	<0.010	Upregulated
REACTOME TRANSLATION	143	2.70	<0.010	Upregulated
REACTOME DNA REPLICATION	179	2.69	<0.010	Upregulated
REACTOME NONSENSE MEDIATED DECAY ENHANCED BY THE EXON JUNCTION COMPLEX	101	2.69	<0.010	Upregulated

REACTOME SRP DEPENDENT COTRANSLATIONAL PROTEIN TARGETING TO MEMBRANE	106	2.69	<0.010	Upregulated
REACTOME INFLUENZA VIRAL RNA TRANSCRIPTION AND REPLICATION	98	2.68	<0.010	Upregulated
GO NCRNA PROCESSING	365	2.63	<0.010	Upregulated
REACTOME CELL CYCLE	355	2.62	<0.010	Upregulated
REACTOME 3 UTR MEDIATED TRANSLATIONAL REGULATION	102	2.58	<0.010	Upregulated
GO RIBONUCLEOPROTEIN COMPLEX BIOGENESIS	408	2.58	<0.010	Upregulated
GO OXIDATIVE PHOSPHORYLATION	82	2.57	<0.010	Upregulated

HALLMARK MYC TARGETS V1	195	2.56	<0.010	Upregulated
REACTOME SYNTHESIS OF DNA	83	2.55	<0.010	Upregulated
GO TRANSLATIONAL ELONGATION	110	2.53	<0.010	Upregulated
GO HOMOPHILIC CELL ADHESION VIA PLASMA MEMBRANE ADHESION MOLECULES	108	- 2.71	<0.010	Downregulated
HALLMARK UV RESPONSE DN	143	- 2.61	<0.010	Downregulated
ATATGCA MIR448	191	- 2.46	<0.010	Downregulated
TGCTTTG MIR330	279	- 2.42	<0.010	Downregulated
CTTGTAT MIR381	192	2.36	<0.010	Downregulated
GO CARDIAC CONDUCTION	63	- 2.36	<0.010	Downregulated
TAATAAT MIR126	188	- 2.35	<0.010	Downregulated

GO REGULATION OF BLOOD CIRCULATION	202	- 2.33	<0.010	Downregulated
TGAATGT MIR181A MIR181B MIR181C MIR181D	433	- 2.33	<0.010	Downregulated
GO REGULATION OF HEART CONTRACTION	153	- 2.33	<0.010	Downregulated
GO MULTICELLULAR ORGANISMAL SIGNALING	88	- 2.31	<0.010	Downregulated
CATTTCA MIR203	259	- 2.28	<0.010	Downregulated
TTGCACT MIR130A MIR301 MIR130B	369	- 2.28	<0.010	Downregulated
GO REGULATION OF PHOSPHATIDYLINOSITOL 3 KINASE SIGNALING	110	- 2.28	<0.010	Downregulated

GO MEMBRANE DEPOLARIZATION DURING ACTION POTENTIAL	26	- 2.27	<0.010	Downregulated
TAGCTTT MIR9	211	- 2.27	<0.010	Downregulated
AAGCACA MIR218	347	- 2.26	<0.010	Downregulated

Name: Gene set name

Size: number of genes in set

NES: Normalized enrichment score

FDR q-val: q value corrected for multiple hypothesis testing

AA vs EA: direction of change in gene set representation in AA tumors as compared to

EA tumors