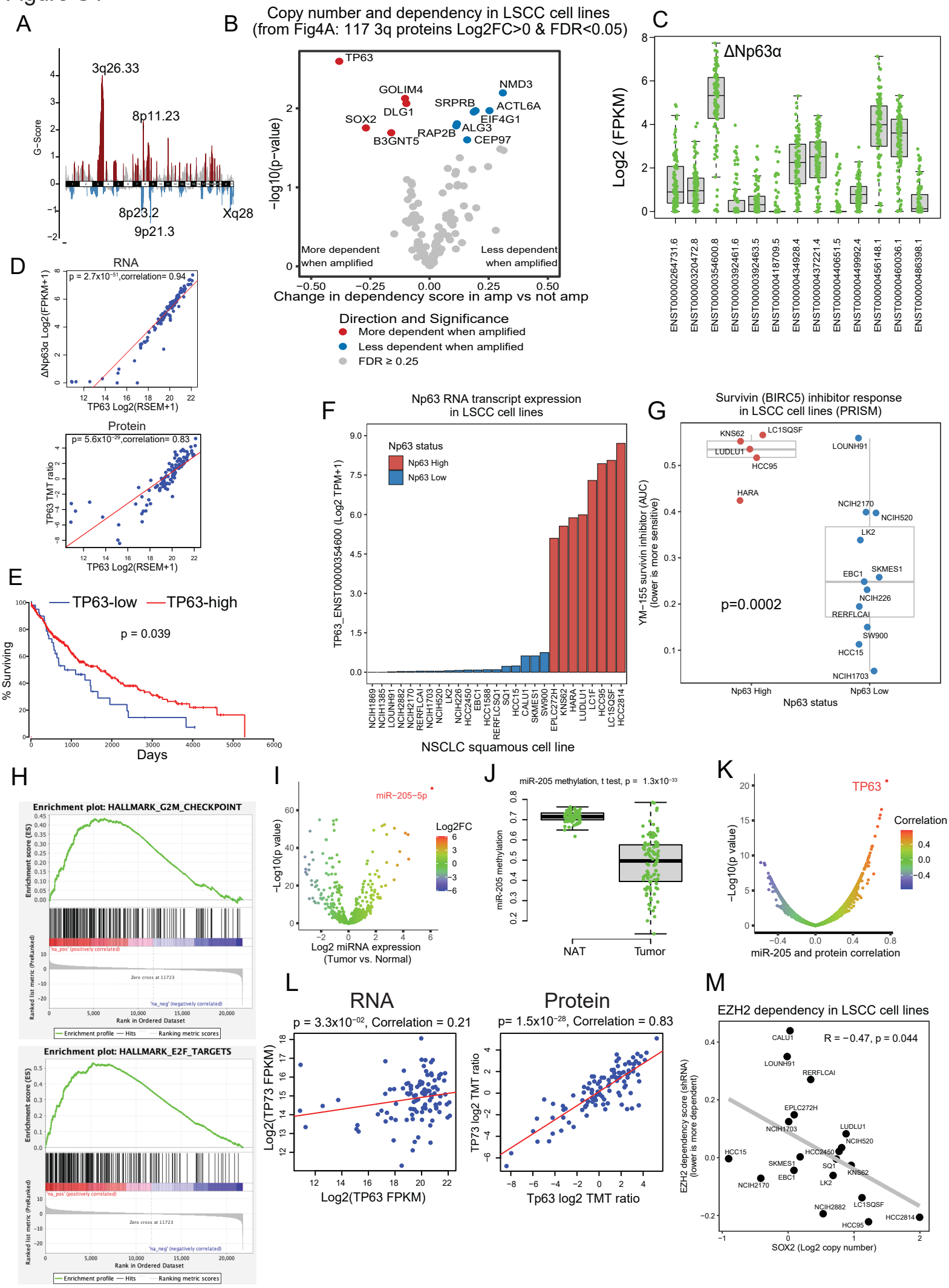
Figure S4


A
3q26.33
8p11.23
8p23.2
9p21.3
Xq28
G-Score
B
Copy number and dependency in LSCC cell lines
(from Fig4A: 117 3q proteins Log2FC>0 & FDR<0.05)
TP63
GOLIM4
DLG1
SOX2
B3GNT5
NMD3
SRPRB
ACTL6A
EIF4G1
ALG3
RAP2B
CEP97
More dependent when amplified
Less dependent when amplified
−log10(p−value)
Change in dependency score in amp vs not amp
Direction and Significance
More dependent when amplified
Less dependent when amplified
FDR ≥ 0.25
C
ΔNp63α
Log2 (FPKM)
ENST00000264731.6
ENST00000320472.8
ENST00000354600.8
ENST00000392461.6
ENST00000392463.5
ENST00000418709.5
ENST00000434928.4
ENST00000437221.4
ENST00000440651.5
ENST00000449992.4
ENST00000456148.1
ENST00000460036.1
ENST00000486398.1
D
RNA
p = 2.7x10−51,correlation= 0.94
ΔNp63α Log2(FPKM+1)
TP63 Log2(RSEM+1)
Protein
p= 5.6x10−29,correlation= 0.83
TP63 TMT ratio
TP63 Log2(RSEM+1)
E
TP63-low
TP63-high
p = 0.039
% Surviving
Days
F
Np63 RNA transcript expression
in LSCC cell lines
Np63 status
Np63 High
Np63 Low
TP63_ENST00000354600 (Log2 TPM+1)
NCIH1869
NCIH1385
LOUNH91
NCIH2882
NCIH2170
RERFLCAI
NCIH1703
NCIH520
LK2
NCIH226
HCC2450
EBC1
HCC1588
RERFLCSQ1
SQ1
HCC15
CALU1
SKMES1
SW900
EPLC272H
KNS62
HARA
LUDLU1
LC1F
HCC95
LC1SQSF
HCC2814
NSCLC squamous cell line
G
Survivin (BIRC5) inhibitor response
in LSCC cell lines (PRISM)
KNS62
LC1SQSF
LUDLU1
HCC95
HARA
LOUNH91
NCIH2170
NCIH520
LK2
EBC1
SKMES1
NCIH226
RERFLCAI
SW900
HCC15
NCIH1703
p=0.0002
YM−155 survivin inhibitor (AUC)
(lower is more sensitive)
Np63 High
Np63 Low
Np63 status
H
Enrichment plot: HALLMARK_G2M_CHECKPOINT
Enrichment score (ES)
Ranked list metric (PreRanked)
Rank in Ordered Dataset
Enrichment profile
Hits
Ranking metric scores
Enrichment plot: HALLMARK_E2F_TARGETS
I
miR−205−5p
Log2FC
−Log10(p value)
Log2 miRNA expression
(Tumor vs. Normal)
J
miR-205 methylation, t test, p = 1.3x10−33
miR-205 methylation
NAT
Tumor
K
TP63
Correlation
−Log10(p value)
miR-205 and protein correlation
L
RNA
p = 3.3x10−02, Correlation = 0.21
Log2(TP73 FPKM)
Log2(TP63 FPKM)
Protein
p= 1.5x10−28, Correlation = 0.83
TP73 log2 TMT ratio
Tp63 log2 TMT ratio
M
EZH2 dependency in LSCC cell lines
R = −0.47, p = 0.044
CALU1
LOUNH91
RERFLCAI
EPLC272H
NCIH1703
LUDLU1
NCIH520
HCC15
HCC2450
SKMES1
SQ1
KNS62
EBC1
NCIH2170
LK2
NCIH2882
LC1SQSF
HCC2814
HCC95
EZH2 dependency score (shRNA)
(lower is more dependent)
SOX2 (Log2 copy number)