

Supplementary Materials:

High MYC mRNA Expression Is More Clinically Relevant than MYC DNA Amplification in Triple-Negative Breast Cancer

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Table S1. List of culture medium.

Cell Line	Medium
BT20	MEM + 10% FBS
BT549	RPMI-1640 + 10% FBS
HCC38	RPMI-1640 + 10% FBS
HCC1143	RPMI-1640 + 10% FBS
MDA-MB-231	DMEM + 10% FBS
MDA-MB-436	DMEM + 10% FBS + 10 µg/ml insulin + 16 µg/ml glutathione
MDA-MB-468	DMEM + 10% FBS
MCF10A	DMEM/F12 + 5% Horse Serum + 20 ng/ml EGF + 0.5 mg/ml Hydrocortisone + 10 µg/ml Insuline

MEM: Eagle's minimal essential medium, RPMI: Roswell Park Memorial Institute, DMEM: Dulbecco's Modified Eagle, FBS: Fetal Bovine Serum.

Table S2. qPCR primer sequence.

Gene	F	R
MYC	TTTTTCGGGTAGTGGAAAACC	TTCTGTGTTGGTGAAGCTAACG
CDK4	TTTGTGGCCCTCAAGAGTGT	CCTCCAGTCGCCTCAGTAAA
CCND1	GGTAGATGTGTAACCTCTTCACCTTA	GCACGCTACGCTACTGTAACC
FZD1	GGTGCCCTCCTACCTCAACT	ATACACCTTGGTCGGCTCAC
FZD8	TCGGTCATCAAGCAACAGG	GGTGTAGAGCACGGTGAACA
GAPDH	AAGGTGAAGGTCGGAGTCAAC	GGGGTCATTGATGGCAACAATA

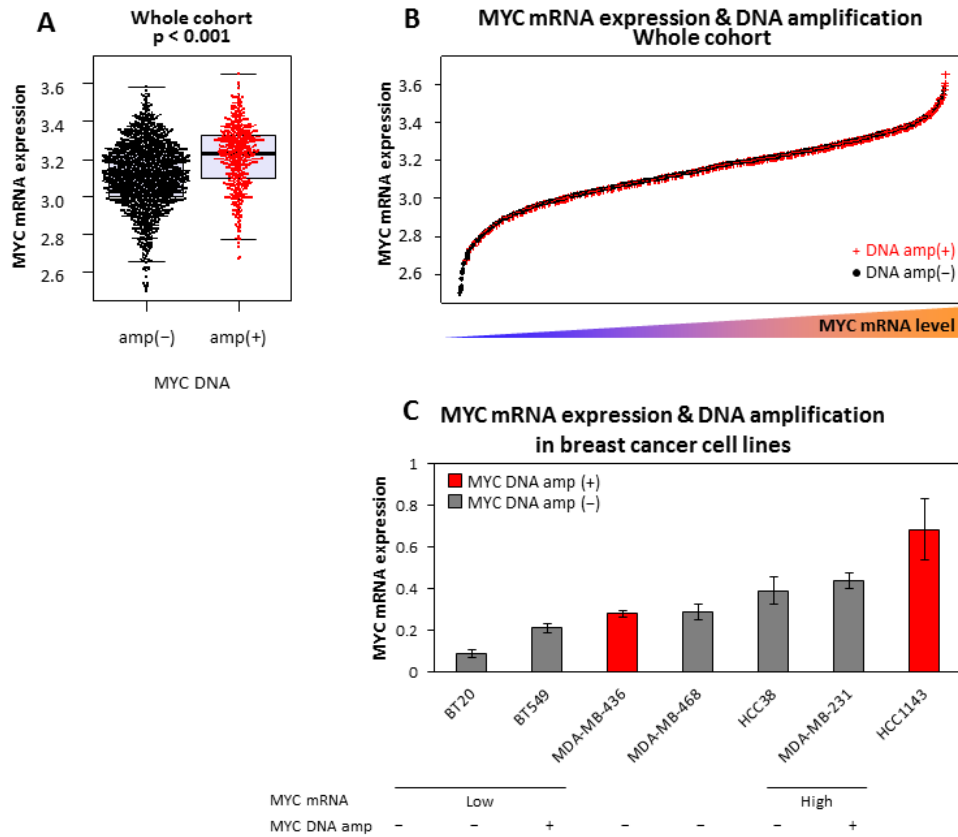


Figure S1. MYC mRNA expression and DNA amplification in the METABRIC whole breast cancer cohort and breast cancer cell lines: (A) MYC mRNA expression levels of MYC DNA non-amplified (amp(-)) and amplified (amp(+)) tumors, (B) MYC mRNA expression levels of MYC DNA non-amplified (DNA amp(-) in black) and amplified (DNA amp(+) in red) tumors. (C) MYC mRNA expression of MYC DNA non-amplified (DNA amp(-) in black column) and amplified (DNA amp(+) in red column) breast cancer cell lines.

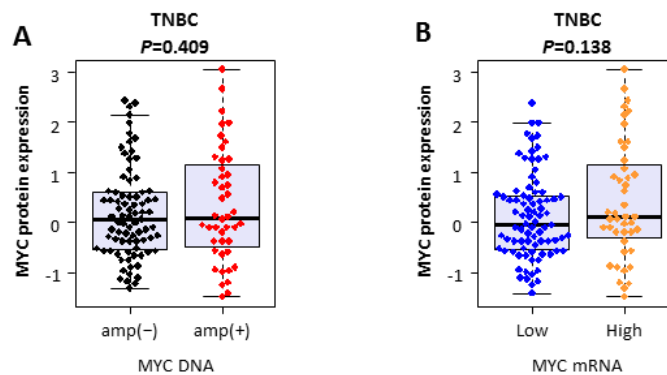
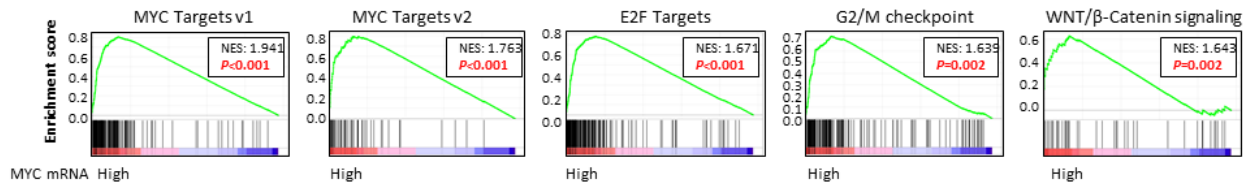


Figure S2. MYC protein expression by MYC amplification or mRNA expression in TCGA TNBC cohort: (A) MYC protein expression levels of MYC DNA non-amplified (amp(-)) and amplified (amp(+)) TNBCs, (B) MYC protein expression levels of MYC mRNA low and high TNBCs.

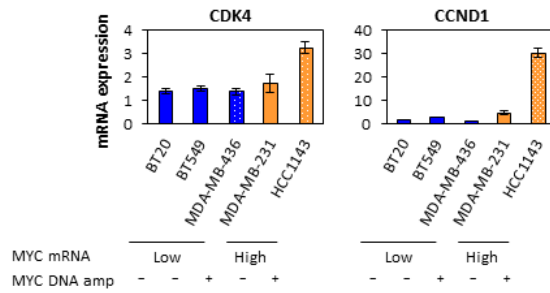
A

Hallmark gene sets comparing MYC mRNA high and low TNBCs



B

Cell cycle



C

WNT/β-Catenin

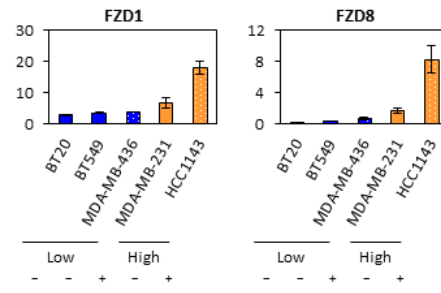


Figure S3. MYC targets, cell cycle, and WNT/β-Catenin genes by MYC mRNA expression in TNBC. **(A)** GSEA comparing MYC mRNA high and low expressing TNBCs in METABRIC cohort. **(B)** Cell cycle related genes expressions and **(C)** WNT/β-Catenin pathway genes expressions in MYC mRNA low (blue column) and high (orange column) TNBC cell lines.