

Table S1: HALLMARK_MYC_TARGETS_V1 with proliferation, survival, and positive/negative correlation with MYC score analysis

Gene	Gene name	Proliferation correlation						Survival				Pos/Neg target	
		Spearman TCGA		Spearman METABRIC		Spearman GSE124647		COX analysis TCGA		COX analysis METABRIC		Spearman	
		R	p value	R	p value	R	p value	HR	p value	HR	p value	R	p
ABCE1	ATP binding cassette subfamily E member 1	0.357	<0.01	0.551	<0.01	0.504	<0.01	1.61	0.212	1.27	0.062	0.294	<0.01
ACP1	Acid phosphatase 1	0.496	<0.01	0.599	<0.01	0.525	<0.01	1.14	0.784	0.99	0.906	-0.024	0.56
AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	0.563	<0.01	0.483	<0.01	0.309	<0.01	2.44	0.034	1.29	0.038	0.141	<0.01
AP3S1	adaptor related protein complex 3 subunit sigma 1	0.082	0.05	0.36	<0.01	-0.163	0.05	1.73	0.056	1.05	0.376	-0.148	<0.01
APEX1	apurinic/apyrimidinic endodeoxyribonuclease 1	0.364	<0.01	0.429	<0.01	0.364	<0.01	1.12	0.81	1.2	0.071	0.095	0.02
BUB3	BUB3 mitotic checkpoint protein	0.342	<0.01	0.458	<0.01	0.354	<0.01	1.06	0.858	1.01	0.916	-0.072	0.08
C1QBP	complement C1q binding protein	0.408	<0.01	0.336	<0.01	0.481	<0.01	1.31	0.429	0.93	0.466	0.082	0.05
CAD	carbamoyl-phosphate synthetase 2, aspartate transcarbamylase, and dihydroorotate	-0.035	0.41	0.003	0.9	0.309	<0.01	1.15	0.681	1.35	0.069	0.215	<0.01
CANX	calnexin	0.283	<0.01	0.23	<0.01	0.153	0.07	1.07	0.842	1.26	0.065	-0.034	0.42
CBX3	chromobox 3	0.542	<0.01	0.052	0.05	0.42	<0.01	1.53	0.237	1.36	0.002	-0.01	0.81
CCNA2	cyclin A2	0.603	<0.01	0.647	<0.01	0.542	<0.01	1.3	0.117	1.94	<0.001	0.103	0.01
CCT2	chaperonin containing TCP1 subunit 2	0.679	<0.01	0.685	<0.01	0.529	<0.01	1.15	0.613	1.43	<0.001	0.11	<0.01
CCT3	chaperonin containing TCP1 subunit 3	0.603	<0.01	0.435	<0.01	0.435	<0.01	2.29	0.028	1.39	0.002	0.108	<0.01
CCT4	chaperonin containing TCP1 subunit 4	0.505	<0.01	-	-	0.495	<0.01	2.1	0.08	-	-	0.116	<0.01
CCT5	chaperonin containing TCP1 subunit 5	0.726	<0.01	0.299	<0.01	0.464	<0.01	1.87	0.053	1.55	<0.001	0.132	<0.01
CCT7	chaperonin containing TCP1 subunit 7	0.619	<0.01	0.583	<0.01	0.636	<0.01	1.98	0.173	1.04	0.573	0.093	0.02
CDC20	cell division cycle 20	0.593	<0.01	0.332	<0.01	0.656	<0.01	1.24	0.145	1.55	<0.001	0.031	0.46
CDC45	cell division cycle 45	0.608	<0.01	0.455	<0.01	0.452	<0.01	1.16	0.314	1.57	<0.001	0.082	0.05
CDK2	cyclin dependent kinase 2	0.368	<0.01	0.401	<0.01	0.43	<0.01	1.48	0.278	1.82	<0.001	0.005	0.9
CDK4	cyclin dependent kinase 4	0.56	<0.01	0.491	<0.01	0.403	<0.01	1.55	0.202	1.54	<0.001	-0.009	0.83
CLNS1A	chloride nucleotide-sensitive channel 1A	0.349	<0.01	0.354	<0.01	0.223	<0.01	0.97	0.912	1.2	0.003	0.048	0.25
CNBP	CCHC-type zinc finger nucleic acid binding protein	0.392	<0.01	0.442	<0.01	0.153	0.07	1.09	0.887	0.9	0.164	0.075	0.07
COPS5	COP9 signalosome subunit 5	0.598	<0.01	0.573	<0.01	0.282	<0.01	1.67	0.115	1.27	0.023	0.015	0.72
COX5A	cytochrome c oxidase subunit 5A	0.646	<0.01	0.529	<0.01	0.375	<0.01	1.1	0.804	1.25	0.1	-0.06	0.15
CSTF2	cleavage stimulation factor subunit 2	0.317	<0.01	0.247	<0.01	0.262	<0.01	2.08	0.075	1.48	0.003	-0.103	0.01
CTPS1	CTP synthase 1	-	-	-	-	0.434	<0.01	1.08	0.891	0.63	0.012		
CUL1	cullin 1	0.167	<0.01	0.052	0.06	0.487	<0.01	1.12	0.674	1.63	<0.001	0.041	0.33
CYC1	cytochrome c1	0.603	<0.01	0.464	<0.01	0.47	<0.01	1.29	0.591	1.38	0.049	0.103	0.01
DDX18	DEAD-box helicase 18	0.11	<0.01	0.08	<0.01	0.578	<0.01	1.25	0.313	1.05	0.522	0.105	0.01
DDX21	DExD-box helicase 21	0.178	<0.01	0.591	<0.01	0.339	<0.01	1.05	0.875	1.05	0.534	0.272	<0.01
DEK	DEK proto-oncogene	0.201	<0.01	0.518	<0.01	0.306	<0.01	2.32	0.032	1.02	0.852	0.155	<0.01

DHX15	DEAH-box helicase 15	0.122	<0.01	0.523	<0.01	0.277	<0.01	1.4	0.247	1.28	0.023	0	0.99
DUT	deoxyuridine triphosphatase	0.38	<0.01	0.348	<0.01	0.257	<0.01	0.66	0.247	0.88	0.034	0.167	<0.01
EEF1B2	eukaryotic translation elongation factor 1 beta 2	0.117	<0.01	0.333	<0.01	0.172	0.04	1.06	0.89	0.95	0.477	0.347	<0.01
EIF1AX	eukaryotic translation initiation factor 1A X-linked	0.203	<0.01	0.447	<0.01	0.213	0.01	1.66	0.288	-	-	0.068	0.1
EIF2S1	eukaryotic translation initiation factor 2 subunit alpha	0.406	<0.01	-	-	0.309	<0.01	1.76	0.18	1.89	<0.001	0.033	0.43
EIF2S2	eukaryotic translation initiation factor 2 subunit beta	0.604	<0.01	0.303	<0.01	0.443	<0.01	1.83	0.118	1.34	0.008	0.106	0.01
EIF3B	eukaryotic translation initiation factor 3 subunit B	0.523	<0.01	-0.052	0.06	0.491	<0.01	0.69	0.358	0.9	0.38	0.307	<0.01
EIF3D	eukaryotic translation initiation factor 3 subunit D	0.162	<0.01	-0.034	0.21	0.276	<0.01	1.59	0.368	0.88	0.33	0.306	<0.01
EIF3J	eukaryotic translation initiation factor 3 subunit J	0.453	<0.01	0.483	<0.01	0.305	<0.01	1.59	0.313	0.97	0.655	0.056	0.18
EIF4A1	eukaryotic translation initiation factor 4A1	0.471	<0.01	0.52	<0.01	-	-	1.68	0.194	0.96	0.525	0.261	<0.01
EIF4E	eukaryotic translation initiation factor 4E	0.36	<0.01	0.587	<0.01	0.294	<0.01	2.32	0.075	1.13	0.086	0.078	0.06
EIF4G2	eukaryotic translation initiation factor 4 gamma 2	0.12	<0.01	0.427	<0.01	0.061	0.47	2.19	0.196	0.93	0.252	-0.089	0.03
EIF4H	eukaryotic translation initiation factor 4H	0.14	<0.01	0.378	<0.01	0.328	<0.01	2.02	0.023	1.31	0.02	0.047	0.26
EPRS	glutamyl-prolyl-tRNA synthetase	0.254	<0.01	0.269	<0.01	0.289	<0.01	0.95	0.89	0.98	0.838	-0.018	0.67
ERH	ERH mRNA splicing and mitosis factor	0.489	<0.01	0.434	<0.01	0.326	<0.01	1.32	0.578	0.86	0.265	-0.146	<0.01
ETF1	eukaryotic translation termination factor 1	0.238	<0.01	0.5	<0.01	0.085	0.32	1.37	0.428	1.07	0.682	-0.039	0.35
EXOSC7	exosome component 7	0.321	<0.01	0.044	0.1	0.32	<0.01	0.59	0.294	0.76	0.053	0.048	0.25
FAM120A	family with sequence similarity 120A	-0.059	0.15	-0.026	0.34	-0.21	0.01	0.84	0.595	1.03	0.815	-0.083	0.05
FBL	fibrillarin	0.303	<0.01	0.191	<0.01	0.461	<0.01	1.23	0.596	0.95	0.556	0.321	<0.01
G3BP1	G3BP stress granule assembly factor 1	0.261	<0.01	0.386	<0.01	0.206	0.01	0.73	0.369	1.17	0.074	0.009	0.83
GLO1	glyoxalase I	0.51	<0.01	0.474	<0.01	0.287	<0.01	1.74	0.165	0.95	0.626	0.009	0.83
GNL3	G protein nucleolar 3	0.359	<0.01	0.498	<0.01	-	-	1.66	0.079	1.14	0.117	0.286	<0.01
GOT2	glutamic-oxaloacetic transaminase 2	0.407	<0.01	0.021	0.45	0.165	0.05	0.98	0.954	1.34	0.027	0	1
GSPT1	G1 to S phase transition 1	0.285	<0.01	0.249	<0.01	0.009	0.91	1.54	0.166	1.53	<0.001	-0.09	0.03
H2AFZ	H2A histone family, member Z	0.684	<0.01	0.706	<0.01	0.557	<0.01	2.69	0.072	1.89	<0.001	-0.005	0.91
HDAC2	histone deacetylase 2	0.358	<0.01	0.458	<0.01	0.383	<0.01	1.57	0.083	1.22	0.032	0.012	0.77
HDDC2	HD domain containing 2	0.25	<0.01	0.117	<0.01	0.122	0.15	1.2	0.581	1.01	0.944	-0.037	0.37
HDGF	heparin binding growth factor	0.446	<0.01	0.381	<0.01	0.222	<0.01	1.01	0.975	1.41	0.007	0.084	0.04
HNRNPA1	heterogeneous nuclear ribonucleoprotein A1	0.275	<0.01	0.471	<0.01	0.188	0.03	0.7	0.406	0.93	0.233	0.135	<0.01
HNRNPA2B1	Heterogeneous Nuclear Ribonucleoprotein A2/B1	0.476	<0.01	-0.183	<0.01	0.528	<0.01	2.43	0.109	1	0.98	-0.085	0.04
HNRNPA3	heterogeneous nuclear ribonucleoprotein A3	0.268	<0.01	0.239	<0.01	0.164	0.05	0.49	0.247	0.72	0.006	0.023	0.58
HNRNPC	heterogeneous nuclear ribonucleoprotein C	0.516	<0.01	-	-	0.431	<0.01	1.54	0.487	-	-	-0.09	0.03
HNRNPCL1		-	-	0.041	0.13	-	-	-	-	0.78	0.508	-0.048	0.08
HNRNPD	heterogeneous nuclear ribonucleoprotein D	0.327	<0.01	0.351	<0.01	0.262	<0.01	0.76	0.576	1.45	0.01	0.106	0.01
HNRNPR	heterogeneous nuclear ribonucleoprotein R	0.271	<0.01	0.269	<0.01	0.351	<0.01	0.85	0.785	1.12	0.424	0.116	<0.01
HNRNPU	heterogeneous nuclear ribonucleoprotein U	0.27	<0.01	-0.094	<0.01	0.227	<0.01	0.83	0.776	0.92	0.424	-0.162	<0.01

HPRT1	hypoxanthine phosphoribosyltransferase 1	0.6	<0.01	0.599	<0.01	0.402	<0.01	1.27	0.461	1.29	0.005	0.042	0.31
HSP90AB1	heat shock protein 90 alpha family class B member 1	0.642	<0.01	0.371	<0.01	0.513	<0.01	1.91	0.059	1.67	<0.001	0.164	<0.01
HSPD1	heat shock protein family D (Hsp60) member 1	0.744	<0.01	0.728	<0.01	0.676	<0.01	1.76	0.041	1.3	0.002	0.198	<0.01
HSPE1	heat shock protein family E (Hsp10) member 1	0.643	<0.01	-	-	0.541	<0.01	1.59	0.09	-	-	-0.136	<0.01
IARS	Isoleucyl-tRNA Synthetase 1	0.275	<0.01	0.519	<0.01	0.333	<0.01	1.66	0.117	1.22	0.056	0.108	<0.01
IFRD1	interferon related developmental regulator 1	-0.07	0.09	0.063	0.02	0.113	0.18	1.36	0.18	0.9	0.416	0.204	<0.01
ILF2	interleukin enhancer binding factor 2	0.454	<0.01	0.488	<0.01	0.518	<0.01	1.65	0.171	1.19	0.099	-0.066	0.11
IMPDH2	inosine monophosphate dehydrogenase 2	0.242	<0.01	0.126	<0.01	0.467	<0.01	0.86	0.61	0.76	0.002	0.316	<0.01
KARS	Lysyl-tRNA Synthetase 1	0.456	<0.01	0.331	<0.01	0.179	0.03	1.87	0.111	1.46	0.004	0.14	<0.01
KPNA2	karyopherin subunit alpha 2	0.661	<0.01	0.751	<0.01	0.505	<0.01	1.28	0.215	1.22	0.001	0.003	0.94
KPNB1	karyopherin subunit beta 1	0.317	<0.01	0.424	<0.01	0.07	0.41	0.77	0.54	0.86	0.263	0.076	0.07
LDHA	lactate dehydrogenase A	0.465	<0.01	0.418	<0.01	0.007	0.93	1.18	0.61	1.24	0.03	-0.031	0.46
LSM2.00	LSM2 homolog, U6 small nuclear RNA and mRNA degradation associated	0.522	<0.01	0.173	<0.01	0.501	<0.01	0.85	0.656	1.44	0.02	0.042	0.31
LSM7.00	LSM7 homolog, U6 small nuclear RNA and mRNA degradation associated	0.162	<0.01	0.446	<0.01	0.408	<0.01	1.16	0.545	1.1	0.501	0.063	0.13
MAD2L1	mitotic arrest deficient 2 like 1	0.647	<0.01	0.804	<0.01	0.598	<0.01	1.19	0.364	1.39	<0.001	0.14	<0.01
MCM2	minichromosome maintenance complex component 2	0.528	<0.01	0.362	<0.01	0.558	<0.01	1.07	0.776	1.74	<0.001	0.109	<0.01
MCM4	minichromosome maintenance complex component 4	0.483	<0.01	0.418	<0.01	0.631	<0.01	1.43	0.081	1.46	<0.001	0.092	0.03
MCM5	minichromosome maintenance complex component 5	0.254	<0.01	0.082	<0.01	0.402	<0.01	0.73	0.287	1.49	<0.001	0.133	<0.01
MCM6	minichromosome maintenance complex component 6	0.457	<0.01	0.384	<0.01	0.624	<0.01	1.31	0.34	1.79	<0.001	0.022	0.6
MCM7	minichromosome maintenance complex component 7	0.429	<0.01	0.296	<0.01	0.599	<0.01	1.1	0.723	1.45	<0.001	0.213	<0.01
MRPL23	mitochondrial ribosomal protein L23	0.282	<0.01	0.119	<0.01	0.356	<0.01	0.9	0.668	1.29	0.047	0.015	0.71
MRPL9	mitochondrial ribosomal protein L9	0.211	<0.01	0.349	<0.01	0.211	0.01	1.12	0.783	1.27	0.087	-0.008	0.84
MRPS18B	mitochondrial ribosomal protein S18B	0.469	<0.01	0.317	<0.01	0.319	<0.01	0.87	0.744	0.77	0.076	0.049	0.24
MYC	MYC proto-oncogene, bHLH transcription factor	0.126	<0.01	0.429	<0.01	0.471	<0.01	0.82	0.246	1.02	0.634	1	<0.01
NAP1L1	nucleosome assembly protein 1 like 1	0.366	<0.01	0.387	<0.01	0.185	0.03	0.54	0.174	1.03	0.78	0.279	<0.01
NCBP1	nuclear cap binding protein subunit 1	0.186	<0.01	0.131	<0.01	0.204	0.02	1.98	0.095	1.57	0.001	-0.054	0.19
NCBP2	nuclear cap binding protein subunit 2	0.44	<0.01	0.373	<0.01	0.383	<0.01	0.94	0.911	1.71	<0.001	0.068	0.1
NDUFAB1	NADH:ubiquinone oxidoreductase subunit AB1	0.589	<0.01	0.522	<0.01	0.194	0.02	1.29	0.502	0.99	0.953	-0.131	<0.01
NHP2	NHP2 ribonucleoprotein	0.508	<0.01	0.548	<0.01	0.48	<0.01	1.26	0.491	1.27	0.027	0.145	<0.01
NME1	NME/NM23 nucleoside diphosphate kinase 1	0.673	<0.01	0.594	<0.01	0.486	<0.01	0.87	0.559	1.32	<0.001	0.109	<0.01
NOLC1	nucleolar and coiled-body phosphoprotein 1	0.466	<0.01	0.531	<0.01	0.535	<0.01	1.72	0.183	1.38	0.008	0.302	<0.01
NOP16	NOP16 nucleolar protein	0.559	<0.01	0.362	<0.01	0.422	<0.01	1.52	0.166	1.73	<0.001	0.259	<0.01
NOP56	NOP56 ribonucleoprotein	0.546	<0.01	0.293	<0.01	-	-	1.56	0.188	1.61	<0.001	0.311	<0.01
NPM1	nucleophosmin 1	0.581	<0.01	-	-	0.473	<0.01	1.17	0.718	-	-	0.151	<0.01
ODC1	ornithine decarboxylase 1	0.127	<0.01	0.174	<0.01	0.156	0.07	0.98	0.929	1.11	0.161	0.297	<0.01

ORC2	origin recognition complex subunit 2	-	-	0.068	0.01	0.348	<0.01	-	-	0.96	0.85	-0.125	<0.01
ORC2L	Origin Recognition Complex Subunit 2	-0.064	0.13	-	-	-	-	0.88	0.78	-	-	0.035	0.39
PA2G4	proliferation-associated 2G4	0.733	<0.01	0.143	<0.01	0.543	<0.01	1.7	0.223	1.89	<0.001	0.06	0.15
PABPC1	poly(A) binding protein cytoplasmic 1	0.441	<0.01	0.413	<0.01	0.3	<0.01	1.32	0.287	0.95	0.393	0.342	<0.01
PABPC4	poly(A) binding protein cytoplasmic 4	0.119	<0.01	0.069	0.01	-	-	1.68	0.152	1.16	0.165	0.318	<0.01
PCBP1	poly(rC) binding protein 1	0.242	<0.01	0.18	<0.01	-0.001	0.99	1.3	0.669	1	0.978	0.016	0.69
PCNA	proliferating cell nuclear antigen	0.617	<0.01	0.654	<0.01	0.382	<0.01	1.36	0.247	1.16	0.026	-0.039	0.35
PGK1.00	phosphoglycerate kinase 1	0.487	<0.01	0.573	<0.01	0.295	<0.01	2.99	<0.001	1.11	0.081	-0.002	0.96
PHB	prohibitin	0.489	<0.01	0.243	<0.01	0.364	<0.01	0.79	0.524	1.3	0.009	0.17	<0.01
PHB2	prohibitin 2	0.339	<0.01	0.341	<0.01	0.372	<0.01	1.08	0.856	0.84	0.224	0.173	<0.01
POLD2	DNA polymerase delta 2, accessory subunit	0.571	<0.01	0.175	<0.01	0.555	<0.01	1.57	0.162	1.44	0.001	0.19	<0.01
POLE3	DNA polymerase epsilon 3, accessory subunit	0.381	<0.01	0.38	<0.01	0.418	<0.01	0.98	0.973	1.35	0.038	-0.029	0.49
PPIA	peptidylprolyl isomerase A	0.692	<0.01	0.625	<0.01	0.223	<0.01	1.65	0.153	0.96	0.433	0.072	0.09
PPM1G	protein phosphatase, Mg²⁺/Mn²⁺ dependent 1G	0.543	<0.01	0.081	<0.01	0.397	<0.01	1.26	0.591	1.98	<0.001	0.015	0.71
PRDX3	peroxiredoxin 3	0.25	<0.01	0.414	<0.01	0.049	0.56	2.15	0.064	0.93	0.114	-0.038	0.36
PRDX4	peroxiredoxin 4	0.575	<0.01	0.485	<0.01	0.225	<0.01	2.26	0.008	1.09	0.364	0.14	<0.01
PRPF31	pre-mRNA processing factor 31	0.152	<0.01	0.134	<0.01	0.156	0.07	1.39	0.288	1.36	0.017	0.081	0.05
PRPS2	phosphoribosyl pyrophosphate synthetase 2	0.243	<0.01	0.322	<0.01	0.272	<0.01	1.15	0.628	0.91	0.385	0.042	0.31
PSMA1	proteasome 20S subunit alpha 1	0.565	<0.01	0.563	<0.01	0.07	0.41	1.31	0.53	1.1	0.294	-0.068	0.1
PSMA2	proteasome 20S subunit alpha 2	0.561	<0.01	0.371	<0.01	0.28	<0.01	2.72	0.022	0.9	0.422	-0.137	<0.01
PSMA4	proteasome 20S subunit alpha 4	0.534	<0.01	0.496	<0.01	0.224	<0.01	1.27	0.499	1.07	0.535	-0.151	<0.01
PSMA6	proteasome 20S subunit alpha 6	0.624	<0.01	0.674	<0.01	-	-	1.26	0.518	1.16	0.051	-0.17	<0.01
PSMA7	proteasome 20S subunit alpha 7	0.525	<0.01	0.161	<0.01	0.464	<0.01	1.37	0.244	2.02	0.008	-0.005	0.9
PSMB2	proteasome 20S subunit beta 2	0.426	<0.01	0.369	<0.01	-0.138	0.1	1.61	0.259	1.49	0.001	-0.1	0.02
PSMB3	proteasome 20S subunit beta 3	0.416	<0.01	0.218	<0.01	0.11	0.19	0.75	0.394	1.38	0.01	-0.085	0.04
PSMC4	proteasome 26S subunit, ATPase 4	0.508	<0.01	0.449	<0.01	0.337	<0.01	0.88	0.733	1.1	0.19	-0.173	<0.01
PSMC6	proteasome 26S subunit, ATPase 6	0.472	<0.01	0.53	<0.01	0.253	<0.01	1.76	0.183	1.12	0.22	-0.168	<0.01
PSMD1	proteasome 26S subunit, non-ATPase 1	0.348	<0.01	0.293	<0.01	0.152	0.07	1.81	0.186	1.38	0.019	-0.081	0.05
PSMD14	proteasome 26S subunit, non-ATPase 14	0.595	<0.01	0.659	<0.01	0.399	<0.01	2.75	0.007	1.14	0.177	-0.153	<0.01
PSMD3	proteasome 26S subunit, non-ATPase 3	0.415	<0.01	0.164	<0.01	0.272	<0.01	1.29	0.451	1.27	0.092	0.061	0.14
PSMD7	proteasome 26S subunit, non-ATPase 7	0.413	<0.01	0.499	<0.01	0.067	0.43	2.51	0.004	1.14	0.104	0.062	0.14
PSMD8	proteasome 26S subunit, non-ATPase 8	0.545	<0.01	0.014	0.62	0.348	<0.01	1.43	0.429	1.01	0.949	-0.053	0.2
PTGES3	prostaglandin E synthase 3	0.659	<0.01	0.573	<0.01	0.406	<0.01	2.53	0.037	1.03	0.585	-0.056	0.18
PWP1	PWP1 homolog, endonuclease	0.475	<0.01	0.479	<0.01	0.257	<0.01	1.41	0.509	1.6	0.005	0.075	0.07
RAD23B	RAD23 homolog B, nucleotide excision repair protein	0.307	<0.01	0.244	<0.01	0.028	0.74	2.27	0.089	1.12	0.371	-0.121	<0.01
RAN	RAN, member RAS oncogene family	0.754	<0.01	0.63	<0.01	0.603	<0.01	1.3	0.479	1.14	0.173	0.151	<0.01
RANBP1	RAN binding protein 1	0.609	<0.01	0.613	<0.01	0.388	<0.01	0.8	0.579	1.14	0.145	0.185	<0.01
RFC4	replication factor C subunit 4	0.554	<0.01	0.68	<0.01	0.347	<0.01	1.05	0.88	1.55	<0.001	-0.007	0.86

RNPS1	RNA binding protein with serine rich domain 1	0.321	<0.01	0.254	<0.01	0.369	<0.01	1.18	0.68	1.1	0.26	0.023	0.58
RPL14	ribosomal protein L14	0.243	<0.01	0.182	<0.01	0.329	<0.01	0.72	0.265	1.01	0.896	0.2	<0.01
RPL18	ribosomal protein L18	0.165	<0.01	0.328	<0.01	0.041	0.63	0.92	0.735	0.93	0.382	0.187	<0.01
RPL22	ribosomal protein L22	0.169	<0.01	0.258	<0.01	0.208	0.01	0.58	0.171	0.83	0.006	0.24	<0.01
RPL34	ribosomal protein L34	0.025	0.55	0.623	<0.01	0.103	0.22	0.73	0.233	1.23	0.014	0.162	<0.01
RPLP0	ribosomal protein lateral stalk subunit P0	0.339	<0.01	0.587	<0.01	0.344	<0.01	1.2	0.575	0.98	0.735	0.303	<0.01
RPS10	ribosomal protein S10	0.265	<0.01	0.23	<0.01	0.103	0.23	0.81	0.501	1.08	0.575	0.243	<0.01
RPS2	ribosomal protein S2	0.322	<0.01	0.328	<0.01	-	-	1.1	0.723	0.95	0.513	0.189	<0.01
RPS3	ribosomal protein S3	0.087	0.04	0.318	<0.01	0.121	0.16	0.75	0.292	1.01	0.893	0.236	<0.01
RPS5	ribosomal protein S5	0.232	<0.01	0.552	<0.01	0.423	<0.01	1.06	0.853	0.93	0.332	0.495	<0.01
RPS6	ribosomal protein S6	0.066	0.11	0.315	<0.01	0.106	0.21	0.83	0.498	0.77	0.002	0.262	<0.01
RRM1	ribonucleotide reductase catalytic subunit M1	0.423	<0.01	0.228	<0.01	0.314	<0.01	1.08	0.821	1.55	<0.001	-0.018	0.67
RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	0.328	<0.01	0.207	<0.01	0.456	<0.01	1.09	0.8	1.2	0.393	0.231	<0.01
RSL1D1	ribosomal L1 domain containing 1	0.367	<0.01	0.193	<0.01	0.272	<0.01	0.91	0.844	0.83	0.052	0.247	<0.01
RUVBL2	RuvB like AAA ATPase 2	0.482	<0.01	0.373	<0.01	0.515	<0.01	1.22	0.499	1.71	<0.001	0.063	0.13
SERBP1	SERPINE1 mRNA binding protein 1	0.239	<0.01	-0.075	<0.01	0.462	<0.01	0.87	0.757	1.05	0.717	0.263	<0.01
SET	SET nuclear proto-oncogene	0.49	<0.01	0.373	<0.01	0.309	<0.01	1.38	0.542	1.3	0.012	0.089	0.03
SF3A1	splicing factor 3a subunit 1	-0.133	<0.01	0.162	<0.01	0.1	0.24	0.32	0.009	0.88	0.384	0.189	<0.01
SF3B3	splicing factor 3b subunit 3	0.282	<0.01	-0.006	0.82	0.203	0.02	1.96	0.038	1.59	<0.001	0.205	<0.01
SLC25A3	solute carrier family 25 member 3	0.484	<0.01	0.392	<0.01	0.344	<0.01	1.48	0.4	1.17	0.283	0.11	<0.01
SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 1	0.193	<0.01	0.355	<0.01	0.368	<0.01	1.06	0.876	0.95	0.663	0.169	<0.01
SNRPA	small nuclear ribonucleoprotein polypeptide A	0.419	<0.01	0.027	0.32	0.423	<0.01	0.85	0.665	1.57	0.001	0.145	<0.01
SNRPA1	small nuclear ribonucleoprotein polypeptide A'	0.607	<0.01	0.457	<0.01	0.537	<0.01	1.29	0.318	1.51	<0.001	-0.018	0.67
SNRPB2	small nuclear ribonucleoprotein polypeptide B2	0.486	<0.01	0.391	<0.01	0.136	0.11	1.62	0.083	1.77	<0.001	-0.104	0.01
SNRPD1	small nuclear ribonucleoprotein D1 polypeptide	0.702	<0.01	0.624	<0.01	0.644	<0.01	1.56	0.218	1.33	0.034	0.118	<0.01
SNRPD2	small nuclear ribonucleoprotein D2 polypeptide	0.504	<0.01	0.433	<0.01	0.527	<0.01	0.97	0.923	1.46	0.009	0.02	0.63
SNRPD3	small nuclear ribonucleoprotein D3 polypeptide	0.484	<0.01	-	-	0.391	<0.01	1.07	0.863	-	-	0.004	0.92
SNRPG	small nuclear ribonucleoprotein polypeptide G	0.569	<0.01	0.412	<0.01	0.509	<0.01	1.53	0.218	1.27	0.056	-0.212	<0.01
SRM	spermidine synthase	0.304	<0.01	0.044	0.1	0.407	<0.01	1.49	0.128	1.16	0.124	0.201	<0.01
SRPK1	SRSF protein kinase 1	0.388	<0.01	0.453	<0.01	0.122	0.15	1.35	0.323	1.73	<0.001	0.183	<0.01
SRSF1	serine and arginine rich splicing factor 1	-	-	0.262	<0.01	0.437	<0.01	-	-	1.28	0.074	-0.21	<0.01
SRSF2	serine and arginine rich splicing factor 2	-	-	0.455	<0.01	-	-	-	-	1.57	0.002	0.223	<0.01
SRSF3	serine and arginine rich splicing factor 3	-	-	0.481	<0.01	0.594	<0.01	-	-	0.86	0.246	0.221	<0.01

SRSF7	serine and arginine rich splicing factor 7	-	-	0.237	<0.01	0.221	<0.01	-	-	0.9	0.437	0.137	<0.01
SSB	small RNA binding exonuclease protection factor La	0.516	<0.01	0.524	<0.01	0.419	<0.01	2.02	0.184	1.01	0.912	0.05	0.23
SSBP1	single stranded DNA binding protein 1	0.489	<0.01	0.558	<0.01	0.086	0.31	1.26	0.567	0.82	0.074	-0.16	<0.01
STARD7	StAR related lipid transfer domain containing 7	0.361	<0.01	0.484	<0.01	0.159	0.06	0.72	0.505	0.97	0.765	0.072	0.08
SYNCRIP	synaptotagmin binding cytoplasmic RNA interacting protein	0.176	<0.01	0.475	<0.01	0.433	<0.01	1.9	0.084	1.21	0.056	0.041	0.32
TARDBP	TAR DNA binding protein	0.463	<0.01	-0.128	<0.01	0.288	<0.01	2.07	0.481	0.96	0.802	-0.012	0.77
TCP1	t-complex 1	0.506	<0.01	0.592	<0.01	-	-	2.41	0.001	1.08	0.313	0.01	0.81
TFDP1	transcription factor Dp-1	0.14	<0.01	0.358	<0.01	0.269	<0.01	0.94	0.868	1.09	0.394	0.43	0.104
TOMM70A	translocase of outer mitochondrial membrane 70	0.434	<0.01	0.326	<0.01	0.198	0.02	1.51	0.324	1.34	0.056	0.07	0.09
TRA2B	transformer 2 beta homolog	0.415	<0.01	0.259	<0.01	0.571	<0.01	1.28	0.731	1.07	0.604	0.084	0.04
TRIM28	tripartite motif containing 28	0.323	<0.01	0.048	0.08	0.486	<0.01	1.14	0.732	1.37	0.003	0.096	0.02
TUFM	Tu translation elongation factor, mitochondrial	0.331	<0.01	0.044	0.1	0.26	<0.01	1.04	0.922	1.28	0.056	-0.039	0.35
TXNL4A	thioredoxin like 4A	0.589	<0.01	-	-	0.318	<0.01	1.93	0.032	-	-	0.111	<0.01
TYMS	thymidylate synthetase	0.557	<0.01	0.631	<0.01	0.387	<0.01	1.31	0.174	1.47	<0.001	0.103	0.01
U2AF1	U2 small nuclear RNA auxiliary factor 1	0.228	<0.01	0.102	<0.01	0.381	<0.01	1.11	0.784	1.36	0.015	-0.05	0.23
UBA2	ubiquitin like modifier activating enzyme 2	0.428	<0.01	0.331	<0.01	0.388	<0.01	1.18	0.682	0.9	0.667	0.198	<0.01
UBE2E1	ubiquitin conjugating enzyme E2 E1	0.324	<0.01	0.409	<0.01	0.232	<0.01	2.48	0.058	0.96	0.606	0.02	0.63
UBE2L3	ubiquitin conjugating enzyme E2 L3	0.393	<0.01	-0.125	<0.01	0.232	<0.01	0.56	0.253	1.25	0.019	-0.011	0.8
USP1	ubiquitin specific peptidase 1	0.232	<0.01	0.504	<0.01	0.462	<0.01	0.76	0.378	1.06	0.578	0.084	0.04
VBP1	VHL binding protein 1	0.464	<0.01	0.611	<0.01	0.221	<0.01	2.19	0.04	1.02	0.827	-0.062	0.14
VDAC1	voltage dependent anion channel 1	0.533	<0.01	0.496	<0.01	0.196	0.02	2.66	0.009	1.14	0.213	-0.063	0.13
VDAC3	voltage dependent anion channel 3	0.523	<0.01	0.421	<0.01	0.148	0.08	0.73	0.295	1.28	0.012	0.001	0.99
XPO1	exportin 1	0.211	<0.01	0.323	<0.01	0.368	<0.01	1.62	0.265	1.5	0.013	0.014	0.74
XPOT	exportin for tRNA	0.457	<0.01	0.566	<0.01	0.415	<0.01	1.49	0.105	1.7	<0.001	0.081	0.05
XRCC6	X-ray repair cross complementing 6	0.424	<0.01	0.41	<0.01	0.197	0.02	0.53	0.173	0.98	0.812	0.146	<0.01
YWHAE	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon	0.264	<0.01	-0.048	0.08	0.346	<0.01	1.34	0.512	1.01	0.948	-0.11	<0.01
YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	0.338	<0.01	0.431	<0.01	0.281	<0.01	1.2	0.609	1.21	0.088	0.105	0.01

Note: For each gene correlation was performed with proliferation score in all cohorts and R value as well as p value are shown. COX analysis was performed to examine survival difference in TCGA and METABRIC cohorts and hazard ratio (HR) and p value are shown for each gene. Correlation analysis was performed for each gene using TCGA cohort in order to quantify the positive or negative impact of each target gene on the overall MYC score. Spearman R value and p value for each gene is shown. Of note, gene information was not available in TCGA for the following genes and METABRIC data was used instead: HNRNPCL1, ORC2, RPS5, SRSF1, SRSF2, SRSF3, SRSF7.

Table S2: HALLMARK_MYC_TARGETS_V2 with proliferation, survival, and positive/negative correlation with MYC score analysis

Gene	Gene name	Proliferation correlation						Survival analysis				Pos/neg targets	
		Spearman		Spearman		Spearman		COX		COX		Spearman	
		R	p value	R	p value	R	p value	HR	p value	HR	p value	R	p value
AIMP2	aminoacyl tRNA synthetase complex interacting multifunctional protein 2	0.467	<0.01	0.624	<0.01	0.48	<0.01	2.44	0.034	1.29	0.038	0.141	<0.01
BYSL	bystin like	0.459	<0.01	0.732	<0.01	0.724	<0.01	1.49	0.208	1.69	<0.001	0.392	<0.01
CBX3	chromobox 3	0.194	0.02	0.385	<0.01	0.353	<0.01	1.53	0.237	1.36	0.002	-0.01	0.81
CDK4	cyclin dependent kinase 4	0.322	<0.01	0.548	<0.01	0.358	<0.01	1.55	0.202	1.54	<0.001	-0.009	0.83
DCTPP1	Deoxycytidine-Triphosphatase 1	0.379	<0.01	0.453	<0.01	0.187	<0.01	1.64	0.098	0.98	0.792	-0.02	0.63
DDX18	DEAD-box helicase 18	0.586	<0.01	-0.035	0.4	0.219	<0.01	1.29	0.591	1.38	0.049	0.105	0.01
DUSP2	dual specificity phosphatase 2	0.29	<0.01	0.109	<0.01	0.151	<0.01	0.83	0.245	1.3	0.089	0.363	<0.01
EXOSC5	Exosome Component 5	0.518	<0.01	0.572	<0.01	0.559	<0.01	0.83	0.536	1.39	0.011	0.256	<0.01
FARSA	phenylalanyl-tRNA synthetase subunit alpha	0.489	<0.01	0.553	<0.01	0.562	<0.01	2.46	0.016	1.43	0.004	0.14	<0.01
GNL3	G protein nucleolar 3	-	-	0.387	<0.01	0.25	<0.01	1.74	0.165	0.95	0.626	0.286	<0.01
GRWD1	glutamate rich WD repeat containing 1	0.224	<0.01	0.503	<0.01	0.404	<0.01	1.22	0.641	1.32	0.101	0.184	<0.01
HK2	hexokinase 2	0.214	0.01	0.092	0.03	0.055	0.04	1.13	0.559	1.03	0.674	0.008	0.85
HSPD1	heat shock protein family D (Hsp60) member 1	0.713	<0.01	0.633	<0.01	0.451	<0.01	1.76	0.041	1.3	0.002	0.198	<0.01
HSPE1	heat shock protein family E (Hsp10) member 1	0.52	<0.01	0.556	<0.01	-	-	1.59	0.09	-	-	-0.136	<0.01
IMP4	IMP U3 small nucleolar ribonucleoprotein 4	0.495	<0.01	0.495	<0.01	0.275	<0.01	1.71	0.205	1.14	0.338	0.036	0.39
IPO4	importin 4	0.631	<0.01	0.584	<0.01	0.596	<0.01	1.73	0.112	1.68	<0.001	0.283	<0.01
LAS1L	LAS1 like ribosome biogenesis factor	0.559	<0.01	0.535	<0.01	0.487	<0.01	1.31	0.557	1.51	0.002	-0.015	0.72
MAP3K6	mitogen-activated protein kinase kinase kinase 6	0.274	<0.01	-0.189	<0.01	-0.197	<0.01	0.95	0.81	0.71	<0.001	0.027	0.52
MCM4	minichromosome maintenance complex component 4	0.65	<0.01	0.428	<0.01	0.633	<0.01	1.43	0.081	1.46	<0.001	0.092	0.03
MCM5	minichromosome maintenance complex component 5	0.436	<0.01	0.354	<0.01	0.365	<0.01	0.73	0.287	1.49	<0.001	0.133	<0.01
IPHOSPH1	M-phase phosphoprotein 10	0.397	<0.01	0.182	<0.01	0.218	<0.01	2.06	0.086	1.24	0.163	-0.06	0.15
MRTO4	MRT4 homolog, ribosome maturation factor	0.634	<0.01	0.61	<0.01	0.542	<0.01	1.1	0.806	1.29	0.067	0.271	<0.01
MYBBP1A	MYB binding protein 1a	0.42	<0.01	0.359	<0.01	0.301	<0.01	0.97	0.929	0.98	0.932	0.292	<0.01
MYC	MYC proto-oncogene, bHLH transcription factor	0.501	<0.01	0.291	<0.01	0.319	<0.01	0.82	0.246	1.02	0.634	1	<0.01

NDUFAF4	NADH:ubiquinone oxidoreductase complex assembly factor 4	0.306	<0.01	0.341	<0.01	0.115	<0.01	1.24	0.468	1.29	0.028	0.189	<0.01
NIP7	nucleolar pre-rRNA processing protein NIP7	0.324	<0.01	0.344	<0.01	0.299	<0.01	1.41	0.356	1.22	0.092	0.233	<0.01
NOC4L	nucleolar complex associated 4 homolog	0.442	<0.01	0.452	<0.01	0.364	<0.01	1.01	0.98	1.5	0.01	0.059	0.15
NOLC1	nucleolar and coiled-body phosphoprotein 1	0.619	<0.01	0.479	<0.01	0.532	<0.01	1.72	0.183	1.38	0.008	0.302	<0.01
NOP16	NOP16 nucleolar protein	0.56	<0.01	0.713	<0.01	0.694	<0.01	1.52	0.166	1.73	<0.001	0.259	<0.01
NOP2	NOP2 nucleolar protein	0.373	<0.01	0.641	<0.01	0.582	<0.01	1.1	0.775	1.66	<0.001	0.202	<0.01
NOP56	NOP56 ribonucleoprotein	-	-	0.68	<0.01	0.553	<0.01	1.56	0.188	1.61	<0.001	0.311	<0.01
NPM1	nucleophosmin 1	0.416	<0.01	0.409	<0.01	-	-	1.17	0.718	-	-	0.015	<0.01
PA2G4	proliferation-associated 2G4	0.462	<0.01	0.664	<0.01	0.596	<0.01	1.7	0.223	1.89	<0.001	0.06	0.15
PES1.00	pescadillo ribosomal biogenesis factor 1	0.671	<0.01	0.541	<0.01	0.331	<0.01	0.75	0.416	1.27	0.239	0.286	<0.01
PHB	prohibitin	0.419	<0.01	0.591	<0.01	0.388	<0.01	0.79	0.524	1.3	0.009	0.17	<0.01
PLK1	polo like kinase 1	0.405	<0.01	0.586	<0.01	0.579	<0.01	1.36	0.048	3.33	<0.001	0.065	0.12
PLK4	polo like kinase 4	0.411	<0.01	0.357	<0.01	0.53	<0.01	1.24	0.277	1.98	<0.001	0.05	0.23
PPAN	peter pan homolog	0.369	<0.01	0.433	<0.01	-	-	1.09	0.666	-	-	0.313	<0.01
PPRC1	PPARG related coactivator 1	0.49	<0.01	0.257	<0.01	0.482	<0.01	1.78	0.231	1.38	0.018	0.341	<0.01
PRMT3	protein arginine methyltransferase 3	0.108	0.2	0.235	<0.01	0.339	<0.01	0.89	0.728	1.06	0.658	0.192	<0.01
PUS1	pseudouridine synthase 1	0.469	<0.01	0.513	<0.01	0.54	<0.01	1.07	0.819	1.38	0.003	0.146	<0.01
RABEPK	Rab9 effector protein with kelch motifs	0.129	0.13	0.241	<0.01	0.071	<0.01	0.71	0.383	0.76	0.085	-0.062	0.14
RCL1	RNA terminal phosphate cyclase like 1	0.099	0.25	0.171	<0.01	0.107	<0.01	1.43	0.368	0.85	0.259	0.302	<0.01
RRP12	ribosomal RNA processing 12 homolog	0.288	<0.01	0.591	<0.01	0.576	<0.01	1.76	0.152	1.28	0.056	0.173	<0.01
RRP9	ribosomal RNA processing 9, U3 small nucleolar RNA binding protein	0.496	<0.01	0.565	<0.01	0.453	<0.01	1.09	0.8	1.2	0.393	0.231	<0.01
SLC19A1	solute carrier family 19 member 1	0.21	0.01	0.58	<0.01	0.631	<0.01	1.37	0.19	1.55	<0.001	0.193	<0.01
SLC29A2	solute carrier family 29 member 2	0.294	<0.01	0.401	<0.01	-	-	0.91	0.597	-	-	0.267	<0.01
SORD	sorbitol dehydrogenase	0.096	0.26	0.25	<0.01	0.32	<0.01	1.05	0.797	1.09	0.139	-0.069	0.1
SRM	spermidine synthase	0.508	<0.01	0.477	<0.01	0.379	<0.01	1.49	0.128	1.16	0.124	0.201	<0.01
SUPV3L1	Suv3 like RNA helicase	0.514	<0.01	0.428	<0.01	0.426	<0.01	1.47	0.07	1.64	0.002	0.173	<0.01
TBRG4	transforming growth factor beta regulator 4	-0.228	<0.01	0.66	<0.01	0.517	<0.01	2.01	0.03	1.46	<0.001	0.22	<0.01
TCOF1	treacle ribosome biogenesis factor 1	0.216	0.01	0.46	<0.01	0.173	<0.01	1.32	0.479	1.3	0.412	0.155	<0.01
TFB2M	transcription factor B2, mitochondrial	0.291	<0.01	0.227	<0.01	0.161	<0.01	1.61	0.149	0.95	0.554	-0.029	0.49

TMEM97	transmembrane protein 97	0.382	<0.01	0.499	<0.01	0.562	<0.01	0.76	0.19	1.37	<0.001	0.16	<0.01
UNG	uracil DNA glycosylase	0.479	<0.01	0.472	<0.01	0.464	<0.01	1.02	0.963	1.3	0.004	0.106	0.01
UTP20	UTP20 small subunit processome component	0.044	0.61	-0.01	0.81	0.136	<0.01	1.06	0.822	1.12	0.763	0.095	0.02
WDR43	WD repeat domain 43	0.453	<0.01	0.191	<0.01	0.402	<0.01	1.37	0.42	1.44	0.025	0.31	<0.01
WDR74	WD repeat domain 74	0.583	<0.01	0.548	<0.01	0.457	<0.01	1.01	0.967	1.35	0.003	0.219	<0.01

Note: For each gene, correlation was performed with proliferation score in all cohorts and R value as well as p value are shown. COX analysis was performed to examine survival difference in TCGA and METABRIC cohorts and hazard ratio (HR) and p value are shown for each gene. Correlation analysis was performed for each gene using TCGA cohort in order to quantify the positive or negative impact of each target gene on the overall MYC score. Spearman R value and p value for each gene is shown.

Table S3: Baseline patient demographics and clinical characteristics of TCGA cohort

TCGA	MYC v1			MYC v2		
	Low	High	p value	Low	High	p value
	713	352		713	352	
Age			0.07			0.056
Median	59	56		59	56	
IQR	49-67	48-67		49-67	48-67	
Subtype			<0.001			<0.001
ER+/HER2-	459	120		459	120	
TNBC	106	69		102	73	
HER2+	55	104		52	107	
Unknown	93	59		100	52	
AJCC						
T-category			<0.001			0.001
T1	209	64		207	66	
T2	386	227		385	228	
T3	95	42		96	41	
T4	22	16		24	14	
Unknown	1	3		1	3	
N-category			0.03			0.065
N-	321	183		323	181	
N+	379	161		376	164	
Unknown	13	8		14	7	
M-category			1			0.812
M-	587	297		598	286	
M+	13	7		13	7	
Unknown	113	48		102	59	
Stage			0.019			0.053
I	135	43		132	46	
II	383	219		384	218	
III	166	76		168	74	
IV	12	6		12	6	
Unknown	17	8		17	8	
Grade			<0.001			<0.001
G1	68	8		65	11	
G2	233	28		228	33	
G3	107	123		104	126	
Unknown	305	193		316	182	

Table S4: Baseline patient demographics and clinical characteristics of METABRIC cohort

METABRIC	MYC v1			MYC v2		
	Low	High	p value	Low	High	p value
	1276	628		1276	628	
Age			<0.001			<0.001
Median	63	59		63	60	
IQR	54-72	48-69		53-71	49-70	
Subtype			<0.001			<0.001
ER+/HER2-	1006	349		1039	316	
TNBC	133	103		122	114	
HER2+	130	168		108	190	
Unknown	7	8		7	8	
N category			<0.001			<0.001
N-	711	281		708	284	
N+	565	346		568	343	
Unknown	0	1		0	1	
Stage			0.009			<0.001
0	2	2		3	1	
I	345	130		368	107	
II	522	278		509	291	
III	68	47		71	44	
IV	5	4		5	4	
Unknown	334	167		320	181	
Grade			<0.001			<0.001
G1	147	18		154	11	
G2	588	152		600	140	
G3	478	449		467	461	
Unknown	63	9		55	16	

Table S5: Baseline patient demographics and clinical characteristics of GSE124647 cohort

GSE124647	MYC v1			MYC v2		
	Low	High	p value	Low	High	p value
	94	46		94	46	
Metastasis			0.237			0.569
Local	9	10		12	7	
Lymph node	27	17		29	15	
Bone	10	1		10	1	
Liver	11	5		11	5	
Soft tissue	24	8		22	10	
Other	13	5		10	8	

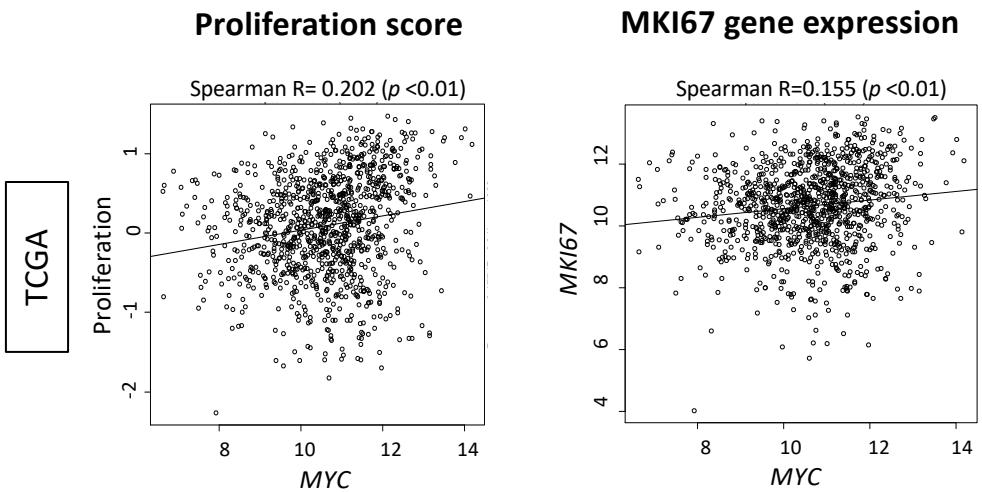


Figure S1: MYC gene expression proliferation. Correlation curve for TCGA cohort demonstrating significant correlation between MYC gene expression and proliferation score as well as MYC gene expression and MKI67 expression.

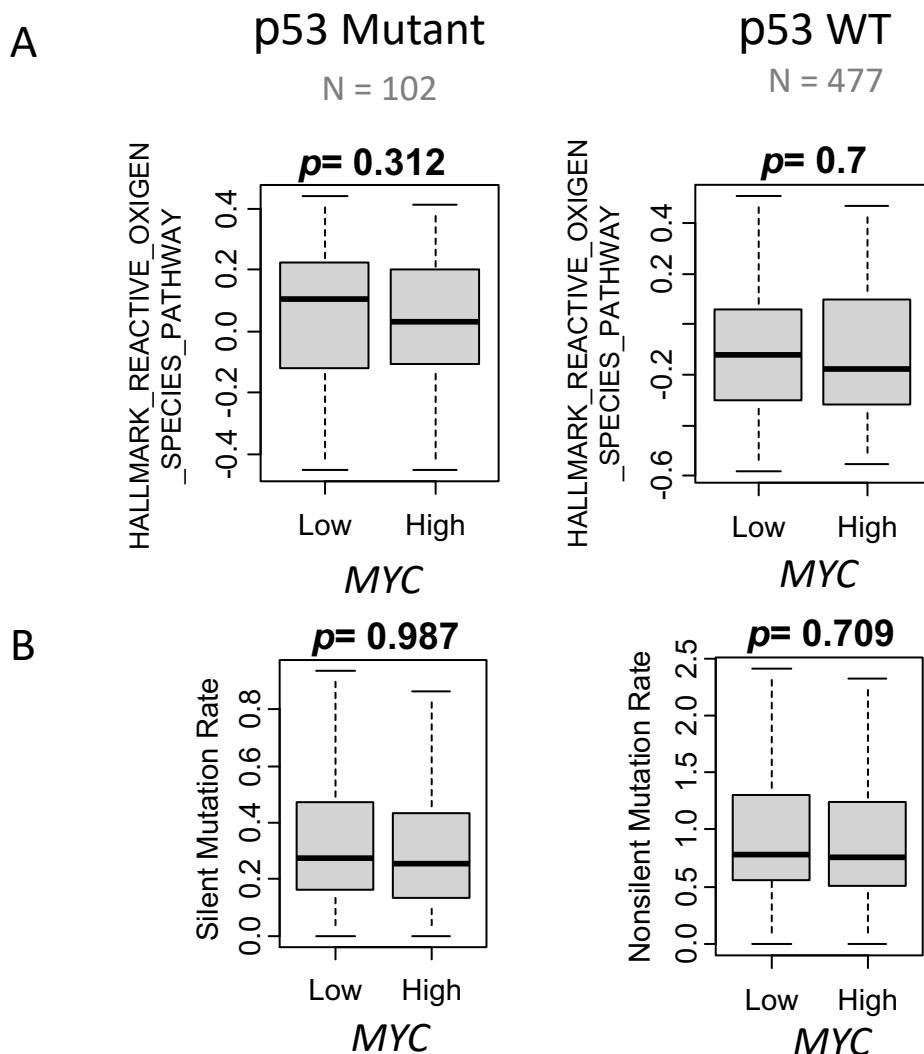


Figure S2: MYC gene expression analysis (ER+/HER2-). TCGA cohort was used to calculate high and low MYC gene expression for ER+/HER2- tumors. **(A)** High levels of gene expression was not significantly associated with increased reactive oxygen species in either p53 wildtype or mutant. **(B)** High levels of MYC expression was not significantly associated with silent or nonsilent mutation rates.