

Table S9: Transcription regulators predicted to be either activated or inhibited in untreated TBL20 (A) OR at 24h (B) OR 48h (C) following exposure to BW720c

A. Activated or Inhibited in TBL20 compared to BL20

Regulator	Predicted Activation Status in TBL20	z-score	p-value	Target gene ratio
STAT2	Activated	2.569	1.15x10 ^{-4*}	9/12
CREB1	Activated	2.508	3.45x10 ^{-6*}	24/51
CEBPB	Activated	2.450	7.65x10 ^{-5*}	30/59
STAT4	Activated	2.337	5.84x10 ^{-10*}	40/58
TP63	Activated	2.212	5.02x10 ^{-6*}	13/18
MTPN	Activated	2.122	1.58x10 ⁻²	15/17
RUNX3	Inhibited	-2.038	3.57x10 ⁻²	4/8
RUNX1	Inhibited	-2.123	1.70x10 ⁻²	4/6
NKX2-1	Inhibited	-2.205	7.66x10 ⁻³	4/31
KDM5B	Inhibited	-2.239	6.91x10 ⁻³	18/23
POU2AF1	Inhibited	-2.261	1.41x10 ⁻³	5/12
SOX2	Inhibited	-2.280	1.87x10 ⁻²	7/13
TCF4	Inhibited	-2.360	3.74x10 ⁻²	5/10
MYB	Inhibited	-2.419	1.54x10 ⁻³	9/16
NR3C1	Inhibited	-2.487	6.53x10 ^{-14*}	33/131
EBF1	Inhibited	-2.653	7.71x10 ⁻²	5/6
PAX5	Inhibited	-2.796	2.68x10 ^{-4*}	7/11
HDAC	Inhibited	-2.873	8.60x10 ^{-6*}	13/16

B. Activated or Inhibited in TBL20 at 24h BW720c compared to untreated TBL20 control

Regulator	Predicted Activation Status in TBL20 24h BW720c	z-score	p-value	Target gene ratio
CREBBP	Activated	2.425	9.02×10^{-2}	12/21
IRF9	Activated	2.383	$2.14 \times 10^{-4*}$	6/9
CEBPD	Activated	2.123	4.00×10^{-1}	4/5
FLI1	Inhibited	-2.047	1.64×10^{-1}	5/6
SP1	Inhibited	-2.067	9.35×10^{-3}	18/51
ATF4	Inhibited	-2.188	5.89×10^{-3}	9/16
NR1H3	Inhibited	-2.320	$7.35 \times 10^{-5*}$	12/17
IFI16	Inhibited	-2.391	7.81×10^{-2}	8/9
ETS1	Inhibited	-2.671	8.69×10^{-3}	10/23

C. Activated or Inhibited in TBL20 at 48h BW720c compared to TBL20 control

Regulator	Predicted Activation Status in TBL20 48h BW720c	z-score	p-value	Target gene ratio
CDKN2A	Activated	3.703	1.32x10 ^{-5*}	32/40
TP53 (includes EG:22059)	Activated	2.726	9.09x10 ^{-9*}	74/162
RB1	Activated	2.656	7.48x10 ^{-4*}	16/41
Rb	Activated	2.545	1.59x10 ⁻¹	8/8
NR4A2	Activated	2.469	4.17x10 ⁻¹	5/5
SIRT1	Activated	2.433	5.26x10 ⁻³	10/14
SPI1 (includes EG:20375)	Activated	2.418	9.37x10 ^{-8*}	14/38
BCL3	Activated	2.412	1.64x10 ⁻²	6/7
Stat3-Stat3	Activated	2.240	1.76x10 ⁻¹	4/4
MEF2A	Activated	2.200	7.57x10 ⁻²	4/5
MYOG	Activated	2.185	1.20x10 ⁻¹	4/5
IRF1 (includes EG:16362)	Activated	2.137	1.15x10 ^{-6*}	19/32
SOX9	Activated	2.131	3.94x10 ⁻¹	4/5
MITF	Activated	2.119	6.86x10 ⁻²	11/20
MEF2D	Activated	2.097	1.61x10 ⁻³	4/6
AR	Activated	2.070	1.58x10 ⁻²	16/34
TOB1	Activated	2.061	8.84x10 ⁻²	7/8
RUNX2	Activated	2.038	5.83x10 ⁻²	7/11
MEF2C	Activated	2.027	1.50x10 ⁻¹	5/7
MED1 (includes EG:19014)	Inhibited	-2.002	4.28x10 ⁻¹	5/7
DDIT3	Inhibited	-2.047	2.49x10 ⁻²	5/7
CCNE1	Inhibited	-2.053	1.95x10 ⁻²	5/5
NR1H3	Inhibited	-2.078	4.94x10 ^{-4*}	12/18
E2F2	Inhibited	-2.133	5.93x10 ^{-4*}	6/15
E2F3	Inhibited	-2.251	4.54x10 ^{-5*}	7/18
E2F1	Inhibited	-2.346	1.64x10 ⁻²	26/48
PPARGC1A	Inhibited	-2.353	2.55x10 ⁻²	16/21
IFI16	Inhibited	-2.570	1.35x10 ⁻¹	9/10
NFE2L2	Inhibited	-3.120	1.11x10 ^{-5*}	47/65