

### Supplemental Table 1

Top 100 differentially expressed genes in etoposide-treated WM793 cells depleted of endogenous ATF2 and reconstituted with ATF2<sup>T52E</sup> (compared to ATF2<sup>T52A</sup>),  $p < 0.05$

Gene	log(2)FC	p-value
LOC100129213	-0.863	0.00057
C1orf201	-0.683	0.04778
<b>IFNB1</b>	-0.663	0.04169
LOC731511	-0.632	0.00442
<b>SP110</b>	-0.601	0.01216
Hs.46693	-0.594	0.03209
ATP4A	-0.579	0.00628
MIR542	-0.549	0.04569
LOC286135	-0.54	0.02488
APLN	-0.531	0.02921
DNAJA4	-0.521	0.04004
LOC100127937	-0.52	0.02553
CCDC54	-0.518	0.04215
Hs.538121	-0.509	0.04188
Hs.538460	-0.498	0.0409
NYX	-0.494	0.03027
ART1	-0.492	0.03271
<b>Hs.125087 (IFI44L)</b>	-0.487	0.00963
LOC100134068	-0.478	0.03213
EFCAB4B	-0.463	0.04571
Hs.539563	-0.456	0.03272
KNCN	-0.453	0.0394
C7orf42	-0.451	0.04484
ASPA	-0.44	0.04264
TMEM62	-0.435	0.03385
LOC642843	-0.434	0.01822
UBE2K	-0.432	0.04987
<b>IRF9</b>	-0.427	0.04208
FLJ44790	-0.425	0.04332
C22orf24	-0.425	0.01556
LOC554207	-0.422	0.04795
Hs.495080	-0.421	0.04531
AIFM2	-0.42	0.036
LOC100134083	-0.416	0.02036
LOC653034	-0.415	0.03877
TMEM129	-0.414	0.03683
PCBP3	-0.404	0.01946
Hs.269011	-0.404	0.03681
LOC727721	-0.404	0.04135
LOC727992	-0.396	0.03817
LOC651876	-0.395	0.04691
Hs.539402	-0.394	0.04416

\*Yellow highlight indicates IFN-signaling related genes

LOC644863	-0.388	0.04403
IL9R	-0.383	0.02
Hs.156892	-0.377	0.03129
PSMD13	-0.367	0.0437
MYF5	-0.349	0.02799
BRF2	-0.331	0.04807
LOC652175	-0.325	0.04789
C1orf190	0.334	0.04059
FUK	0.356	0.04406
OIT3	0.357	0.04595
IQCE	0.362	0.04572
LOC401860	0.365	0.03549
ZNF696	0.367	0.04057
NECAB1	0.376	0.04083
SLC4A1AP	0.38	0.0315
Hs.233165	0.395	0.01798
LOC285735	0.403	0.0303
APOA1BP	0.404	0.03271
Hs.540121	0.408	0.02368
NUDT12	0.41	0.03404
LOC100132549	0.412	0.03634
LOC731898	0.417	0.02422
LOC100132308	0.418	0.03051
ZNF620	0.422	0.03057
LOC100128406	0.423	0.04483
KIAA1731	0.424	0.03423
KCNJ12	0.428	0.03532
HIPK2	0.431	0.04695
PPP1R9A	0.436	0.03662
SNORA19	0.44	0.02469
MIR548A1	0.442	0.02419
LOC730754	0.449	0.0461
ZMYM1	0.45	0.04284
PCDHA4	0.47	0.0471
LOC728395	0.475	0.02892
LOC728887	0.483	0.01734
LOC645194	0.496	0.03574
DSG3	0.497	0.01304
CCDC102A	0.504	0.03536
Hs.538804	0.512	0.04857
LOC652838	0.52	0.00946
LOC727855	0.522	0.01185
LOC100130556	0.535	0.02401
ATPAF2	0.583	0.0421
CHST4	0.618	0.02216
CPSF3	0.618	0.02522
LOC652641	0.62	0.00717
SNORD95	0.626	0.04286
Hs.560740	0.629	0.02753

RNASET2	0.632	0.04893
ANKRD19	0.659	0.03957
Hs.296031	0.705	0.03941
ANGEL2	0.774	0.04823
CANT1	0.799	0.0357
LOC100133095	0.89	0.00826
RFX1	0.909	0.02669
SH3GL3	1.043	0.04835
HDAC3	1.177	0.03818