

**Supplementary Materials for**  
**BCL-2 inhibition with ABT-737 prolongs survival in an NRAS/BCL-2 mouse model of**  
**AML by targeting primitive LSK and progenitor cells**

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## **Materials and Methods**

### **Tissue and cell preparation, flow cytometry**

Blood was obtained from anaesthetized animals (with isoflurane) by venipuncture of retro-orbital venus plexus into EDTA tubes. Differential blood counts were obtained using an automated hematology analyzer (Cell Dyn, Abbott Diagnostics, France or Medonica, Kitvia, France). White peripheral blood (PB) cells were analyzed by flow cytometry as previously described<sup>1</sup> (FACSCalibur, Becton Dickinson, San Jose, California, USA ); PB BCL-2 expression was performed by flow cytometry using the human specific BCL-2 antibody (BD Pharmingen, San Diego, CA, USA). Bone marrow (BM) was obtained by flushing long bones with Hank's balanced salts solution followed by filtering through a nylon mesh. PB and BM smears were prepared according to standard hematological techniques. Bone marrow smears were stained and examined by a cytologist of Hôpital Saint-Louis. The tissue sections were examined by the Head of Histopathology of Hôpital Saint-Louis; and classified according to the Bethesda proposal<sup>2</sup> where blast equivalents are designated as "Immature Forms/Blasts", which for the purposes of convenience are referred to as blasts herein. Percentage blasts were determined from the BM smears by counting 100-200 cells. Lin<sup>-</sup> fractions were separated using an AutoMacs separator (Miltenyi, Auburn, CA). The lineage depletion kit contained a mixture of specific biotinylated antibodies CD5 (T-cell antigen), CD45R (lymphocyte antigen), Mac-1, Gr-1(Lys-6G) (granulo-macrophagic differentiation antigens) and Ter119 (early erythroid antigen). BM LSK cells were estimated using antibodies Sca-1 conjugated with fluorescent isothiocyanate (FITC) and KIT conjugated with phycoerythrin (PE) (Becton Dickinson, San Jose, CA). Livers and spleens were fixed overnight in buffered formalin and embedded in paraffin, sectioned and stained by the Hôpital Saint-Louis Histopathology department. Splenocytes were obtained by soft dilaceration of the spleen with the piston of a 5 ml Syringe in a petri dish. Cells are washed in PBS, filtered through a 40  $\mu$  m nylon mesh and then density centrifugation was conducted using Lymphoprep (Eurobio, France) to isolate mononuclear splenocytes.

### **Progenitor Assay**

Progenitor assays were performed using the Methocult® media as recommended by the manufacturer (Stem Cell Technology, Vancouver). This assay kit contained rm-Stem Cell Factor, rmlL-3, rhIL-6 growth factors and insulin and transferrin. Briefly  $10^6$  bone marrow cells were centrifuged and resuspended in 3.3 ml Iscove's media supplemented with 2% heat inactivated fetal calf serum (FCS), 2 mM glutamine, 5 UI/ml penicillin, 300 mg/ml streptomycin. 0.3 ml of cells was added to 3 ml of Methocult® and 1 ml ( $3 \times 10^4$ ) was plated per 35 mm dish (in triplicate). Cultures were incubated for 7 days at 37°C, 5% CO<sub>2</sub> in air and > 95% humidity. Identification and counts of colonies were done according to the technical manual of the manufacturer. Colonies were counted on day 7 and the mean of the first two dishes plated was scored.

### **Immunofluorescence and confocal microscopy**

A TRITC directly conjugated hBCL-2 (Santa Cruz Biotechnology, CA), an anti-NRAS monoclonal antibody was visualized with a goat anti-mouse Alexa 647 secondary antibody and anti-mitochondria antibody Tom 20 (Santa Cruz Biotechnology, CA) visualized with a goat anti-rabbit Alexa 488 secondary antibody were used. The fluorescent lectin (Alexa Fluor 488) wheat germ agglutinin (Molecular Probes, Invitrogen, Paisley) was used as a plasma membrane marker for mouse cells. Slides were analyzed by confocal microscopy on a Zeiss LSM 510 META confocal laser microscope (Zeiss, Jena, Germany).

### **Flow cytometric apoptosis assessment:AnnexinV/7AAD**

Briefly, single cell suspensions were prepared from spleen cells and cultured in low-serum/cytokine mixture (IMDM/2% FCS/IL-3/SCF/G-CSF/GM-CSF (5 ng/ml)) for 24 h as recommended by the manufacturer (BD Biosciences, Oxford, UK).  $3 \times 10^5$  cells were

collected by centrifugation and labelled with Annexin V-Cy5 (BioVision Inc, CA) and 7-AAD (BD Biosciences, Oxford, UK) according to manufacturers' instructions.

### **Mitochondrial membrane potential (MMP)**

Briefly, splenocytes were resuspended at  $1 \times 10^6$ /ml in 1xPBS with 50 nM DiOC<sub>2</sub>(3) (Invitrogen, Carlsbad, CA) and incubated at 37°C for 30 min. Cells were washed in 1xPBS and analysed by flow cytometry using the 488 nm excitation laser and 530/30 nm bandpass and 670 nm longpass filters. The accumulation of the DiOC<sub>2</sub>(3) dye within the mitochondria measured by emission in the green/red channels following excitation reflects the membrane potential.

### ***ANX-Scintigraphy***

Scintigraphic imaging or Single-Photon Emission Computed Tomography (SPECT) was performed under pentobarbital anesthesia (4 mg/100 g body weight; Ceva Santé Animale, Libourne, France) in mice, after intravenous injection of ANX. Planar images were obtained 0 to 45 minutes (dynamic acquisition: 15 images, image duration: 60 seconds, static acquisitions of 10 minutes duration) after ANX injection. Images were acquired 10 minutes after injected dose of ANX. In addition, mice which had previously undergone planar imaging underwent abdominal X/tomosintigraphy acquisition: mod-list tomographic acquisition was performed during continuous rotation of the animal placed between 2 parallel collimators (360° rotation per minute, acquisition duration: 60 minutes from 1 hour to 2 hours after ANX injection). All acquisitions were performed using a dedicated small animal IMAGER-S/CT system (Biospace Mesures, Paris, France) equipped with parallel low-energy high-resolution collimators (matrix 128x128, 15% energy window centred on 140 KeV). ANX uptake in hepato-splenic area was visually assessed, and activity (mean counts per pixel) ratios between pre and post treatment (determined on early dynamic images) and underlying background areas were computed on planar images.

## **TUNEL**

Quantitative data on tissue sections were assessed blindly by 2 pathologists (AJ, CL) on an Olympus ProvisAX-70 microscope (Olympus, Japan), with wide-field eyepiece number 26.5, providing a field size of 0.344 mm<sup>2</sup> at 400× magnification. Cell counts were performed on three different fields per section, and expressed as the mean number of cells per field (400 × magnification) using the Olympus SIS software system.

## **RAS activation assays and Western Blotting**

5x10<sup>5</sup> cells were lysed in 50 mmol/L Tris (pH 7.4), 1% NP40, 15% glycerol, 200 mmol/L NaCl, 5 mmol/L MgCl<sub>2</sub>, 5 mmol/L NaF, 1 μmol/L leupeptin, 0.1 μmol/L aprotinin, and 1 mmol/L phenylmethylsulfonyl fluoride. Detergent-insoluble material was removed by centrifugation (16,000 g at 4°C for 20 min) and assayed for RAS activation using the GST-Raf1-Ras Binding Domain protein as previously described.<sup>2</sup> Densitometric analysis for the pulldowns was performed using the Aida Image Analyzer. The background was subtracted, and the signals of the detected bands were normalized to the amount of respective β-actin loading control band. The relative values were presented as fold increase over control samples as indicated (error bar = SD; n=3). For Western blots Cyclin D1 and D3, p27<sup>KIP1</sup>, Phospho p38<sup>MAPK</sup>, BCL<sub>XL</sub>, pBCL-2 threonine and serine antibodies were obtained from Cell Signaling Technology, Beverly, MA); p21<sup>Waf1/Cip1</sup>, p15<sup>INK4B</sup>, MCL-1, ERK and AKT specific antibodies were obtained from Santa Cruz Biotechnology, CA,

## **Effect of ABT-737 on AML spleen cells *Ex Vivo***

Splenocytes were prepared as above, resuspended at 1x10<sup>6</sup>/ml in culture media (IMDM/2% FCS/IL-3/SCF/G-CSF/GM-CSF (5 ng/ml) with 10, 100 or 500 nM of ABT-737 dissolved in DMSO and incubated at 37°C for 24 hours. Cells were washed in 1xTBS and analysed by Western blotting using ppERK and pAKT antibodies with β-actin as a control for loading (Cell Signaling Technology, Beverly, MA).

### **Affymetrix exon array hybridization**

For each of the six arrays (three mice each of untreated and ABT-737 treated <sub>MRP8</sub>[NRAS/BCL-2] mice), 100 ng of total RNA was first mixed with bacterial transcripts and the mixture was reverse transcribed into cDNA. After synthesis of double-stranded cDNA, an *in vitro* transcription reaction was conducted overnight. Resulting amplified cRNA were reverse transcribed into sense DNA incorporating dUTP. This single stranded DNA was treated with a combination of uracil DNA glycosylase and apurinic/apyrimidinic endonuclease 1. DNA fragments were biotin-labeled by terminal deoxynucleotidyl transferase. Targets were finally prepared according Affymetrix recommendations for hybridization of exon arrays. Microarrays were hybridized, washed and scanned using Affymetrix instruments. Total RNAs RIN values were between 8.3 and 9. Raw data are controlled with Expression console (Affymetrix).

### **Array data and statistical analysis**

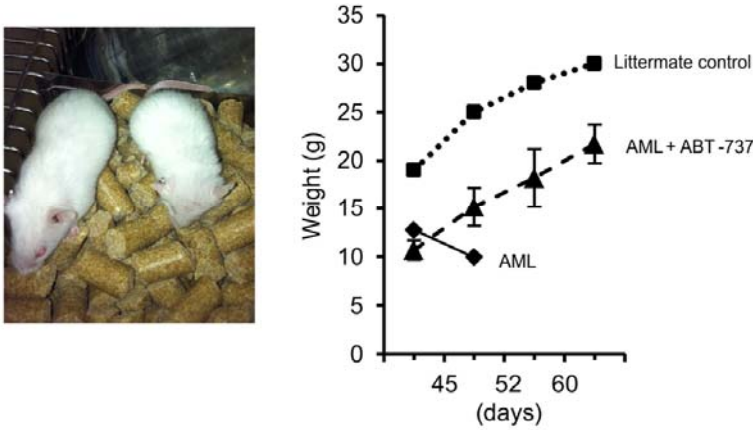
Exon Array data were normalized using quantile normalization. Background correction was made by using the antigenomic probes and probe selection was made as described previously.<sup>3</sup> Only probes targeting exons annotated from FAST DB® transcripts were selected in order to focus on well-annotated genes, whose mRNA sequences are in public databases.<sup>4</sup> Among these selected probes, bad-quality probes (e.g. probes identified by Affymetrix as “cross-hybridizing”) and probes with too low intensity signal compared to antigenomic background probes with the same GC content were removed from the analysis. Only probes with a DABG P value  $\leq 0.05$  in at least half of the arrays were considered for statistical analysis.<sup>4</sup> Only genes expressed in at least one compared condition were analyzed (*i.e.* untreated and ABT-737 treated mice). To be considered as expressed, the DABG p-value had to be  $\leq 0.05$  for at least half of the gene probes. We performed an unpaired Student's t-test to compare gene intensities in the different biological replicates.

## Reference

1. Omidvar N, Kogan S, Beurlet S et al. BCL-2 and mutant NRAS interact physically and functionally in a mouse model of progressive myelodysplasia. *Cancer Res* 2007;67:11657-11667.
2. Kogan SC, Ward JM, Anver MR et al. Bethesda proposals for classification of nonlymphoid hematopoietic neoplasms in mice. *Blood* 2002;100:238-245.
3. de la Grange P, Gratadou L, Delord M, Dutertre M, Auboeuf D. Splicing factor and exon profiling across human tissues. *Nucleic Acids Res* 2010;38:2825-2838.
4. de la Grange P, Dutertre M, Martin N, Auboeuf D. FAST DB: a website resource for the study of the expression regulation of human gene products. *Nucleic Acids Res* 2005;33:4276-4284.

# Figure S1

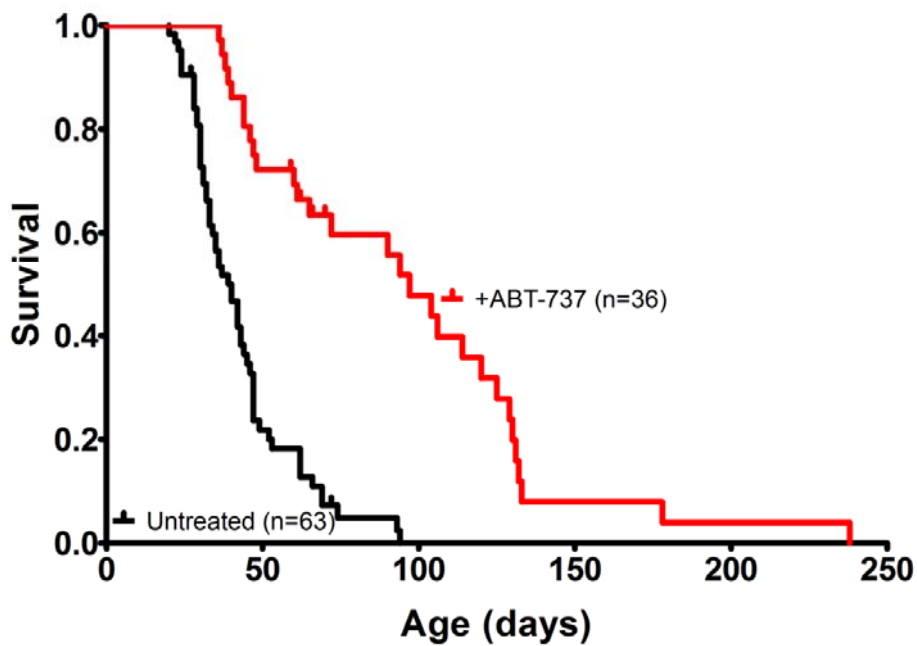
Increased weight of AML mice after ABT-737 treatment



Reduced size of AML compared to littermate. AML mouse on the right with wild-type littermate on the left and increased weight of AML mice after treatment. Weight of AML mice at 3 weeks (Mean $\pm$ SD of 3 mice) of untreated diseased mice (closed diamond and solid line) compared to litter mate (n=3, closed square and small dotted line) and treated mice (n=6, closed triangle and dashed line).

# Figure S2

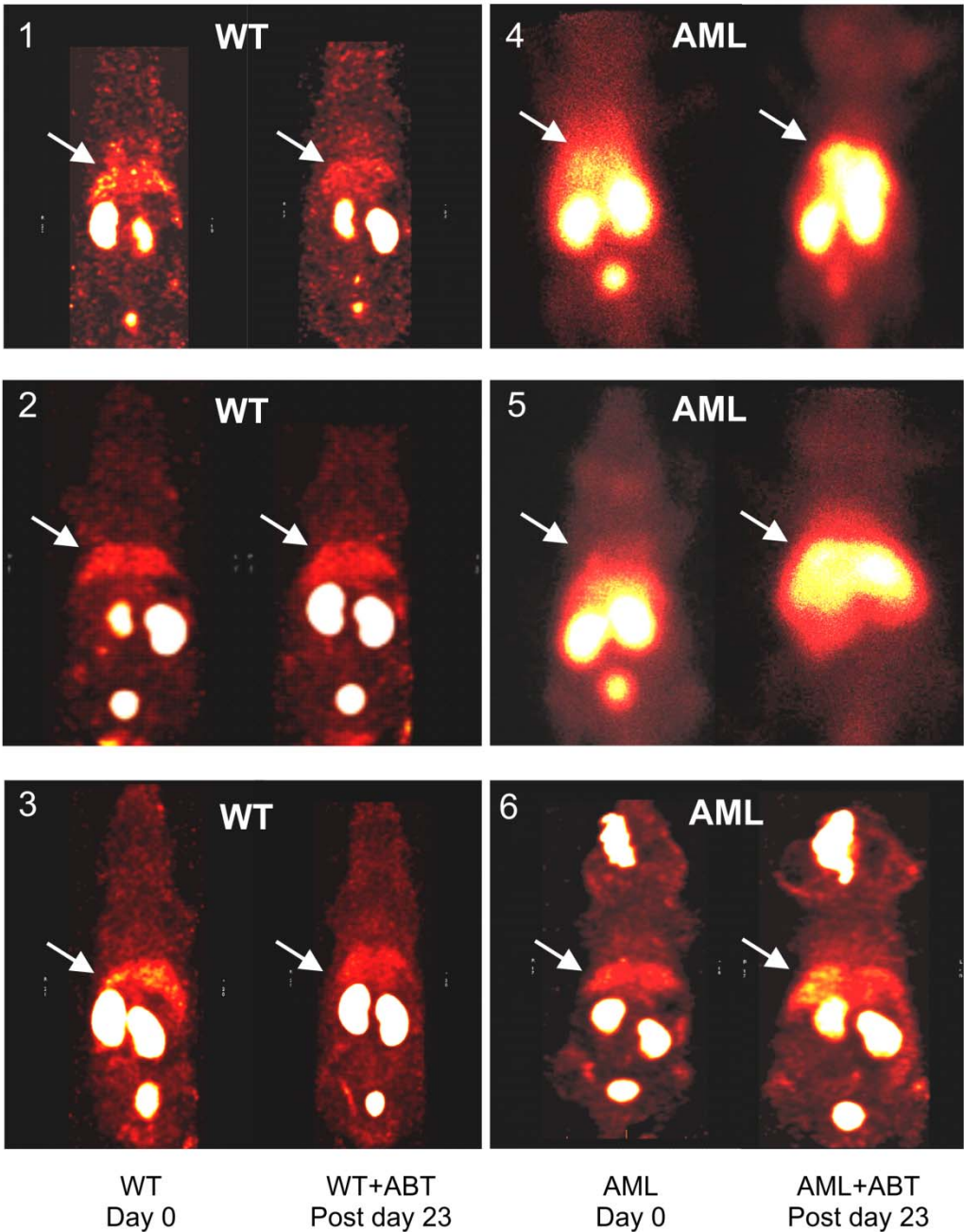
Kaplan-Meier survival curves showing prolonged survival of AML mice treated with ABT-737



Treated mice (n=36, red line) compared with untreated (n=63, black line) plotted from date of birth ( $p < 0.0001$ ).



Supplement S3. Radioisotope heat map of Tc-99 m labelled Annexin-V



Increased apoptosis of AML treated mice. Paired untreated and treated radioisotope heat maps of Tc-99m labeled Annexin-V of AML and WT mice (n=3 in each group).

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Mmp9	up	7.50	3.48E-03	chr2(+):16477370-1648781348	<a href="#">UCSC</a>	matrix metalloproteinase 9	BMP9 // C1ql4b // GelatinaseB	D12712	17395	ENSMUSG00000017737	9.57	12.47
Fpr1	up	7.39	3.10E-03	chr17(-):18013452-18020905	<a href="#">UCSC</a>	formyl peptide receptor 1	MLF-R // FPR	AK137714	14293	ENSMUSG00000046551	7.92	10.80
Sf1a3	up	6.73	1.54E-02	chr16(+):36450623-36455480	<a href="#">UCSC</a>	stefin A3	Sf3	AK014349	20863	ENSMUSG000000054908	8.57	11.32
Cxcr2	up	6.57	2.85E-02	chr11(+):116991960-116992772	<a href="#">UCSC</a>	chemokine (C-X-C motif) receptor 2	CD128 // Cmrk2 // Gpcr16 // IL-8 receptor	BC104141	104141	ENSMUSG00000026180	7.22	9.94
Il1f9	up	6.23	6.12E-03	chr2(+):24041999-24054734	<a href="#">UCSC</a>	interleukin 1 family, member 9	IL1F9	AK156687	21257	ENSMUSG000000044103	8.98	11.62
Tm4sf1	up	6.22	3.68E-02	chr3(-):57089533-57105892	<a href="#">UCSC</a>	transmembrane 4 superfamily member 1	12A2targetantigen // L6 // L6antigen	AK134603	17112	ENSMUSG000000027800	7.54	10.18
Igll1	up	6.15	3.62E-02	chr16(+):16860767-16864079	<a href="#">UCSC</a>	immunoglobulin lambda 5	Igll-5 // Igll // Lambd5	AK137552	---	ENSMUSG000000075370	7.48	10.10
Dhrs9	up	6.14	1.36E-02	chr2(+):69218500-69242590	<a href="#">UCSC</a>	dehydrogenase/reductase	C730025I08Rik // Rdh15	AK080914	241452	ENSMUSG000000027068	6.98	9.60
Irg1	up	5.92	4.02E-03	chr14(+):103446192-103455790	<a href="#">UCSC</a>	immunoreactive protein 1	IRG1	AK152635	16365	ENSMUSG000000022126	7.14	9.71
Mmp8	up	5.55	1.10E-02	chr9(+):7558448-7558486	<a href="#">UCSC</a>	matrix metalloproteinase 8	Collagenase-2	AK089336	17394	ENSMUSG000000058000	8.55	11.02
Tnfrsf23	up	5.22	2.20E-03	chr7(-):150851714-150871781	<a href="#">UCSC</a>	tumor necrosis factor receptor 25	mDcTrailr1 // mSOB // Tnfrsf1	AK170037	79201	ENSMUSG000000037613	7.38	9.76
Sfn4	up	5.16	1.28E-02	chr11(+):8298868-83003717	<a href="#">UCSC</a>	schlafen 4	Sfn4	BC044865	20558	ENSMUSG000000002024	8.78	11.08
Gm5483	up	5.13	2.63E-02	chr16(+):36184298-36188194	<a href="#">UCSC</a>	predicted gene 5483	---	AK089257	433016	ENSMUSG000000079597	7.37	9.73
Sic7a11	up	4.96	5.96E-03	chr3(-):49696447-50247536	<a href="#">UCSC</a>	solute carrier family 7 member 1	993009M05Rik // sut // Systemc	AJ766237	28570	ENSMUSG000000027737	7.76	10.07
Ccl2	up	4.95	3.48E-03	chr11(+):81849077-81850954	<a href="#">UCSC</a>	chemokine (C-C motif) ligand 2	CCl2 // MCP-1	AK153520	20296	ENSMUSG000000035385	7.81	10.12
Cxcl2	up	4.89	1.21E-02	chr5(+):91332896-91334964	<a href="#">UCSC</a>	chemokine (C-X-C motif) ligand 2	CINC-2a // Gro2 // GROb // Mgsa	AK155874	20310	ENSMUSG000000058427	9.92	12.21
D730048J04Rik	up	4.88	5.12E-03	chr17(+):43671137-43672050	<a href="#">UCSC</a>	RIKEN cDNA D73004	---	AK021352	---	---	6.67	8.96
Pad14	up	4.79	1.92E-02	chr4(+):140301607-140330119	<a href="#">UCSC</a>	peptidyl arginase domain containing protein 14	PADtypeIV // Pd14	AK137625	18602	ENSMUSG000000025330	6.97	9.23
---	---	4.61	3.84E-02	chr6(+):69327937-69328199	<a href="#">UCSC</a>	---	---	---	---	---	6.14	11.35
---	---	4.47	1.74E-02	chr6(+):67741219-677741492	<a href="#">UCSC</a>	---	---	---	---	---	8.15	10.31
Retnlg	up	4.47	3.47E-02	chr16(+):48872757-48874609	<a href="#">UCSC</a>	resistin like gamma	Fizz3 // Relmg // Xcp1	AJ536019	245195	ENSMUSG000000022651	10.39	12.55
1700047M11Rik	up	4.45	3.65E-02	chr1(+):184218245-184233420	<a href="#">UCSC</a>	RIKEN cDNA 170004	---	AK047804	67330	---	6.73	8.88
Alox5	up	4.41	2.51E-02	chr6(+):11636098-116411163	<a href="#">UCSC</a>	arachidonate 5-lipoxygenase	5-LO // 5-LOX // 5LO // 5LX	AK136868	11689	ENSMUSG000000025701	8.88	11.02
Aspr1	up	4.40	3.79E-02	chr6(+):86577432-86579197	<a href="#">UCSC</a>	aspartic peptidase, related	2300003F22Rik // SASP // SASF	BC157058	67855	ENSMUSG000000033508	7.13	9.27
Spp1	up	4.32	1.38E-02	chr5(+):104864136-104870667	<a href="#">UCSC</a>	secreted phosphoprotein 1	SPPL1 // 44kDaBonephosphoprotein	AK160540	20750	ENSMUSG000000029304	9.58	11.69
---	---	4.27	2.56E-02	chr7(+):150735217-150735792	<a href="#">UCSC</a>	---	---	---	---	---	6.44	8.53
S100a6	up	4.20	1.08E-02	chr3(+):90417104-90418336	<a href="#">UCSC</a>	S100 calcium binding protein 6	2A9 // 5B10 // Cacy // CALCYCL	AK151144	20200	ENSMUSG00000001025	9.19	11.26
Upp1	up	4.18	1.17E-02	chr11(+):9018105-9036172	<a href="#">UCSC</a>	uridine phosphorylase	UdrPase // Up // Ulpase	D44464	22271	ENSMUSG000000020407	7.55	9.62
Myo1d	up	4.13	1.68E-02	chr11(+):80295629-80593528	<a href="#">UCSC</a>	myosin I	9930104H07Rik // D11Etd9e	BC039700	338367	ENSMUSG000000035441	7.22	9.27
Clec4d	up	4.12	1.18E-02	chr6(+):123212127-123225283	<a href="#">UCSC</a>	C-type lectin domain family 4 member 4	Clec4d // mcl // mMCL // Mpl	AK089500	17474	ENSMUSG000000030144	7.00	9.04
Gm5416	up	4.11	1.70E-02	chr16(+):36210490-36217874	<a href="#">UCSC</a>	predicted gene 5416	---	BC115936	408196	ENSMUSG000000068320	5.42	7.45
Fosl1	up	4.02	3.13E-02	chr19(+):5447545-5445945	<a href="#">UCSC</a>	fos-like antigen 1	fra-1 // Fra1	AK144785	14283	ENSMUSG000000024912	7.75	9.76
Steap4	up	3.94	1.36E-02	chr5(+):7960455-7982212	<a href="#">UCSC</a>	STEAP family member 4	11100221017Rik // Tiarp // Tnfrap	AJ319746	117167	ENSMUSG000000012428	6.14	8.12
Hdc	up	3.94	1.44E-02	chr2(+):126419398-126444416	<a href="#">UCSC</a>	histidine decarboxylase	Hdc-a // Hdc-c // Hdc-e // Hdc-f	AK133455	15186	ENSMUSG000000027369	8.23	10.20
Mmp25	up	3.94	3.51E-02	chr17(-):23766146-23782237	<a href="#">UCSC</a>	matrix metalloproteinase 25	F730048C11Rik // Leukolysin // Bst1	BC059599	240047	ENSMUSG000000023903	8.43	10.40
Bst1	up	3.92	3.32E-03	chr4(+):44210147-44234550	<a href="#">UCSC</a>	bone marrow stromal cell protein 1	1141A10 // Bp3 // Bst1 // CD157	AK163542	12182	ENSMUSG000000029802	10.11	10.41
---	---	3.90	2.62E-02	chr12(+):8506232-8509364	<a href="#">UCSC</a>	---	---	---	---	---	5.26	7.22
---	---	3.88	3.81E-02	chr5(+):44175285-44177356	<a href="#">UCSC</a>	---	---	---	---	---	5.98	7.94
Mctp1	up	3.88	2.42E-02	chr13(+):76522407-77171071	<a href="#">UCSC</a>	multiple C2 domains	2810465F10Rik	AK047562	78771	ENSMUSG000000021596	6.79	8.74
Chst1	up	3.86	3.14E-02	chr2(+):92440029-92455407	<a href="#">UCSC</a>	carbohydrate (keratan) 6-O-sulfotransferase 1	2610008E20Rik // C6St // GST-1	AK134997	76969	ENSMUSG000000027221	6.82	8.77
---	---	3.82	2.56E-03	chr17(-):74226579-74229003	<a href="#">UCSC</a>	---	---	---	---	---	6.42	8.35
Lilra6	up	3.78	2.72E-03	chr7(-):3859882-3867107	<a href="#">UCSC</a>	leukocyte immunoglobulin-like receptor 6	7M1 // Pira3	AK030846	18726	ENSMUSG000000030427	7.83	9.75
Niacr1	up	3.76	6.26E-03	chr5(+):124313581-124315509	<a href="#">UCSC</a>	niacin receptor 1	Gpr109a // Gpr109b // HM74 // P1	AK150795	80885	ENSMUSG000000045052	8.24	10.15
Ilim6	up	3.70	3.53E-02	chr7(+):148201605-148202807	<a href="#">UCSC</a>	interferon induced transmembrane protein 6	fractiligin5	AK039626	213002	ENSMUSG000000059108	10.35	12.24
6430548M08Rik	up	3.68	2.43E-02	chr8(+):122638050-122699204	<a href="#">UCSC</a>	RIKEN cDNA 643054	mKIAA0513	AK133157	234797	ENSMUSG000000031824	6.70	9.94
A430107O13Rik	up	3.65	4.56E-02	chr6(+):21935907-22205365	<a href="#">UCSC</a>	RIKEN cDNA A43010	---	BC151918	214682	ENSMUSG000000062390	6.70	8.67
Ankrd22	up	3.61	3.85E-02	chr19(+):34197039-3420545	<a href="#">UCSC</a>	ankyrin repeat domain containing protein 22	S430429D21Rik // D19Etd675e	AK101360	52024	ENSMUSG000000024774	5.51	7.35
---	---	3.58	1.14E-02	chr19(+):10013755-10015142	<a href="#">UCSC</a>	---	---	---	---	---	5.51	7.35
D930030O5Rik	up	3.53	3.46E-03	chr7(+):75251581-75258241	<a href="#">UCSC</a>	RIKEN cDNA D93003	---	AK083489	---	---	7.24	9.06
Itpb2l	up	3.51	3.55E-02	chr16(+):96643898-96665222	<a href="#">UCSC</a>	integrin beta 2-like	5033406G21Rik // pactolus	AK158108	16415	ENSMUSG000000001557	7.10	8.91
Pygl	up	3.41	2.27E-02	chr12(-):71291799-71332475	<a href="#">UCSC</a>	liver glycogen phosphorylase	---	AK149491	110095	ENSMUSG000000021069	8.29	10.06
Il1r2	up	3.41	1.76E-02	chr4(+):40141586-40182068	<a href="#">UCSC</a>	interleukin 1 receptor, type I	CD121b // IL-1receptorbetachain	AK132264	16178	ENSMUSG000000026073	8.58	10.35
Raet1d // Raet1e	up	3.38	2.53E-02	chr10(+):21878373-22093943	<a href="#">UCSC</a>	retinoic acid early transcription factor 1	RAE-1delta // Rae-1epsilon	FJ594066	379043 // 56554	0000053219 // ENSMUSG	6.89	8.65
Csf3r	up	3.36	2.40E-02	chr4(+):125701903-125722219	<a href="#">UCSC</a>	colony stimulating factor 3 receptor	Cd114 // Csfgr // G-CSFR	AK144318	12986	ENSMUSG000000028859	9.05	10.80
Rasgrp4	up	3.35	1.77E-02	chr7(+):29919950-29938971	<a href="#">UCSC</a>	RAS guanyl releasing factor	---	AK089282	233046	ENSMUSG000000030589	8.59	10.33
---	---	3.33	4.62E-02	chr6(+):129453790-129456461	<a href="#">UCSC</a>	---	---	AK080920	---	---	6.84	8.57
Sifa1	up	3.32	2.38E-02	chr16(+):36217265-36285457	<a href="#">UCSC</a>	stefin A1	Sf1	M92417	20861	ENSMUSG000000017562	10.68	12.41
Sf1a21	up	3.30	2.21E-02	chr16(+):36156896-36162038	<a href="#">UCSC</a>	stefin A2 like 1	---	AK050597	268895	ENSMUSG000000059657	9.61	11.33
---	---	3.29	8.12E-03	chr11(+):74290802-74293812	<a href="#">UCSC</a>	---	---	---	---	---	6.87	8.59
---	---	3.26	1.19E-02	chr19(+):10056413-10056981	<a href="#">UCSC</a>	---	---	---	---	---	6.02	7.73
Thbs1	up	3.24	4.96E-02	chr2(+):117937624-117952868	<a href="#">UCSC</a>	thrombospondin 1	tbsp1 // Thbs-1 // TSP-1 // TSP1	AK145202	21825	ENSMUSG000000040152	8.86	10.56
Actn1	up	3.24	6.32E-03	chr12(+):81288535-81361352	<a href="#">UCSC</a>	actinin, alpha 1	3110023F10Rik	BC054830	109711	ENSMUSG000000015143	8.94	10.64
Arg2	up	3.23	1.11E-02	chr12(+):80231803-80257287	<a href="#">UCSC</a>	arginase type II	All	U90886	11847	ENSMUSG000000021125	6.90	8.59
---	---	3.22	2.57E-02	chr11(+):107289590-107297000	<a href="#">UCSC</a>	---	---	---	---	---	6.07	7.76
Hal	up	3.19	4.53E-02	chr10(+):92951513-92979506	<a href="#">UCSC</a>	histidine ammonia lyase	histidase // Hsd	AK146139	---	---	6.07	7.76
---	---	3.19	3.15E-02	chr7(+):50779586-50781749	<a href="#">UCSC</a>	---	---	---	---	---	6.75	9.43
---	---	3.16	4.52E-02	chr17(+):48286076-48304221	<a href="#">UCSC</a>	RIKEN cDNA A53006	---	AK174433	---	---	8.76	10.43
Fpr2 // Fpr3	up	3.14	1.44E-02	chr17(+):18024786-18103641	<a href="#">UCSC</a>	formyl peptide receptor 2	E330010I07Rik // Fpr-rs1 // Fpr-r	AK174433	328830	ENSMUSG000000043938	7.86	9.52
F2r2	up	3.13	2.20E-02	chr13(+):96466808-96472694	<a href="#">UCSC</a>	coagulation factor II	PAR3	14289 // 14294	14289 // 14294	0000052270 // ENSM		

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
493341206Rik	up	3.02	2.92E-02	chr13(-):15873497-15894465	UCSC	RIKEN cDNA 493341	---	AK016796	---	---	5.45	7.04
Tamr1	up	2.98	4.19E-02	chr7(-):3487791-3503442	UCSC	T cell-interacting, acti	9930022N03Rik // Gm9904	AK155804	245126	ENSMUSG00000053338	7.70	9.28
Ptgs2	up	2.97	8.92E-03	chr1(+):151947229-151955147	UCSC	prostaglandin-endope	Cox-2 // COX2 // cyclooxygenase	M88242	19225	ENSMUSG00000032487	7.82	9.39
Pt2a5	up	2.96	4.61E-02	chr4(-):138355159-138419383	UCSC	phospholipase A2, gr	PLA2	AK090021	18784	ENSMUSG00000041193	6.08	7.65
9830107182Rik	up	2.89	3.70E-02	chr17(+):48282355-48283218	UCSC	RIKEN cDNA 983010	---	AK079388	328829	ENSMUSG00000073386	7.65	8.57
---	up	2.89	2.15E-02	chr15(+):82823800-82828136	UCSC	---	---	AK158337	---	---	8.86	10.40
Trem1	up	2.87	4.87E-02	chr17(+):48371933-48386091	UCSC	triggering receptor exc	---	AK089439	---	---	9.40	10.92
Wip1	up	2.86	4.98E-02	chr1(-):109434646-109472747	UCSC	WD repeat domain, p	49305330H1Rik // D11Erd498e	AK159808	52639	ENSMUSG00000041895	6.96	8.47
Mt2	up	2.85	1.22E-02	chr8(+):9696683-9697462	UCSC	metallothionein 2	Mt-2 // MT-II	AK002567	17750	ENSMUSG00000031762	8.52	10.03
Adam8	up	2.85	2.09E-02	chr7(-):147164832-147178437	UCSC	a disintegrin and meta	CD156 // CD156a // E430039A1	BC025584	11501	ENSMUSG00000025473	8.90	10.41
5430425K12Rik	up	2.84	3.38E-02	chr13(+):81080319-81087858	UCSC	RIKEN cDNA 543042	---	AK017339	---	---	5.12	6.63
---	up	2.83	1.40E-03	chr7(+):75196005-75198972	UCSC	---	---	AK053468	---	---	7.03	8.53
---	up	2.82	2.50E-02	chr7(-):71051746-71052522	UCSC	---	---	AK138320	---	---	7.93	9.43
Dgkq	up	2.82	3.77E-02	chr16(-):22468534-22657295	UCSC	diacylglycerol kinase	Z900055E17Rik // Daqk3 // E430	AK220294	110197	ENSMUSG00000022861	7.83	9.33
Empd3	up	2.81	1.94E-03	chr9(+):120448948-120477435	UCSC	ectonucleoside triphos	Cd3393 // HB6 // NTPDase-3	AK046218	215446	ENSMUSG00000041608	6.69	8.18
1810033B17Rik	up	2.80	4.98E-02	chr8(+):3865754-3869259	UCSC	RIKEN cDNA 181003	---	AK087121	69189	ENSMUSG00000013974	8.52	10.00
---	up	2.78	8.44E-03	chr8(+):11457471-11459742	UCSC	---	---	AK157419	---	---	5.89	7.36
Ltf	up	2.77	3.99E-02	chr9(-):1110921794-110945270	UCSC	lactoferrin	lactoferrin // Lf	AK036491	17002	ENSMUSG00000032496	11.29	12.77
Tas2r143	up	2.77	5.26E-03	chr8(-):42325037-42351122	UCSC	taste receptor, type 2	mt2r36 // Tas2r43	BC148239	387514	ENSMUSG00000046652	6.67	8.14
Csar1	up	2.76	2.74E-02	chr7(-):16832094-16844687	UCSC	complement compone	C5ar // C5r1 // Cd88 // D7Msu1	AK158027	12273	ENSMUSG00000049130	8.84	10.31
Cpeb3	up	2.72	1.90E-02	chr19(+):37096369-37281999	UCSC	cytoplasmic polyaden	4831444O18Rik // mKIAA0940	AB093274	208922	ENSMUSG00000039652	6.54	7.98
Cd300lf	up	2.72	2.10E-02	chr11(-):114977533-114995306	UCSC	CD300 antigen like fa	CLM-1 // DlgR2 // F730004D16R	BC057864	246746	ENSMUSG00000047798	7.95	9.40
Cyp4f18	up	2.71	4.48E-03	chr8(-):74512381-74533527	UCSC	cytochrome P450, fam	1810054N16Rik	AK007863	72054	ENSMUSG00000030484	8.80	10.23
---	up	2.70	9.98E-04	chr8(-):35012639-35013410	UCSC	---	---	AK040416	---	---	6.82	8.25
Gcnt2	up	2.70	3.48E-02	chr13(+):40955137-41056280	UCSC	glucosaminyl (N-acety	5330430K10Rik // IGnT // IGnTA	BC094572	14538	ENSMUSG00000021360	8.64	10.07
9230118H08Rik	up	2.70	2.26E-02	chr11(+):7855875-7856585	UCSC	RIKEN cDNA 923011	---	AK020356	---	---	4.98	6.39
Ier3	up	2.69	7.32E-03	chr17(+):35858628-35959861	UCSC	immediate early respo	cAMPInduciblegene3 // ci-3 // gly	AK051003	15937	ENSMUSG00000030541	9.21	10.63
---	up	2.68	2.55E-02	chr6(+):22065607-22066520	UCSC	---	---	AK051981	---	---	5.69	7.11
Cdk18	up	2.66	1.98E-02	chr1(-):134010127-13403628	UCSC	cyclin-dependent kina	Pek3	AK004988	18557	ENSMUSG00000026437	7.68	9.09
Fam70a	up	2.65	2.11E-02	chrX(-):35549750-35605617	UCSC	family with sequence	6430550H21Rik	AK041985	245386	ENSMUSG00000036502	6.19	7.60
Rab3b	up	2.65	3.26E-02	chr4(+):108551675-108615929	UCSC	RAB3B, member RAS	---	AK082959	69908	ENSMUSG00000030411	6.27	7.67
2010005H15Rik	up	2.64	3.28E-02	chr16(+):36221648-36257513	UCSC	RIKEN cDNA 201000	---	BC145264	76770	ENSMUSG00000051949	11.62	13.02
5330421C15Rik	up	2.61	3.01E-02	chr10(+):5317538-5323044	UCSC	RIKEN cDNA 533042	---	AK039175	---	---	7.09	8.47
B230303A05Rik	up	2.61	6.08E-03	chr13(-):15905387-16008490	UCSC	RIKEN cDNA B23030	EG328191	AK045681	---	---	5.91	7.29
---	up	2.61	4.08E-02	chr12(-):86938540-86940124	UCSC	---	---	AK033142	---	---	6.49	7.88
Gp49a	up	2.60	5.96E-03	chr10(+):51200464-51206509	UCSC	glycoprotein 49 A	gp49	AK167751	14727	ENSMUSG00000062593	10.63	12.01
Prok2	up	2.59	1.93E-02	chr6(+):9961293-9967638	UCSC	prokinectin 2	BombinavariegataBkDaprotein // 1	AF182095	50501	ENSMUSG00000033069	6.89	7.97
Sfp	up	2.58	3.71E-02	chr2(+):1164179807-1164182243	UCSC	secretory leukocyte pe	---	BC028509	20568	ENSMUSG00000017002	11.87	13.23
Vamp5	up	2.57	9.58E-03	chr6(+):72318043-72318627	UCSC	vesicle-associated me	Camp	BC145146	53620	ENSMUSG00000073002	5.90	7.26
Pilrb1	up	2.57	4.66E-02	chr5(-):138293375-13829226	UCSC	paired immunogloblin-	Fdact // Pilrb	AJ400847	170741	ENSMUSG00000066684	7.67	9.03
Plekha7	up	2.56	2.47E-02	chr10(-):6379246-6606166	UCSC	pleckstrin homology d	D10Erd733e // mKIAA1209	AK034403	213783	ENSMUSG00000040624	6.70	8.05
9430027J11Rik	up	2.56	1.60E-03	chr14(-):98207555-98209066	UCSC	RIKEN cDNA 943002	---	AK054234	---	---	5.86	7.21
Igax	up	2.55	1.82E-02	chr7(+):135273060-135294170	UCSC	integrin alpha X	Cd11c // CD11C(p150)alphanp	AK155816	16411	ENSMUSG00000030789	7.87	9.23
B430306N03Rik	up	2.55	2.44E-02	chr17(+):48454627-48466349	UCSC	RIKEN cDNA B43030	---	AK046672	320148	ENSMUSG00000043740	8.24	9.59
---	up	2.54	1.36E-02	chr6(+):66866397-66870707	UCSC	---	---	AK053250	---	---	7.18	8.53
Tnfrsf6	up	2.54	4.79E-02	chr2(+):51893623-51912201	UCSC	tumor necrosis factor	Tnfrsf6 // TSG-6 // Tsg6	U83903	21930	ENSMUSG00000053475	6.67	8.02
---	up	2.54	6.52E-03	chr1(+):75524275-75524647	UCSC	---	---	AK137857	---	---	4.64	5.98
Lilrb3	up	2.52	4.43E-02	chr7(-):3663011-3671993	UCSC	leukocyte immunoglob	Gp1 // Pirb	AF182095	18733	ENSMUSG00000058818	7.64	10.64
Atap3	up	2.52	4.39E-02	chr18(+):38132282-38158563	UCSC	ArtGAP with RhoGAP	Centd3 // DRAG1 // E030006K04	AF469822	106852	ENSMUSG00000024451	6.73	9.06
Sdc1	up	2.51	1.35E-02	chr12(+):8778160-8799884	UCSC	syndecan 1	CD138 // syn-1 // Synd // Synd1	AK132236	20969	ENSMUSG00000020592	8.77	10.10
L1cam	up	2.50	7.40E-03	chrX(-):71099328-71126136	UCSC	L1 cell adhesion mole	CD171 // L1 // L1-NCAM // NCAM	BC056988	16728	ENSMUSG00000033191	7.69	9.02
Aph1b	up	2.50	1.33E-02	chr9(-):66623016-66643298	UCSC	anterior pharynx defec	2310057K14Rik	AK162585	208117	ENSMUSG00000032375	8.14	9.47
Pycard	up	2.50	2.07E-02	chr7(+):135136804-135140112	UCSC	PYD and CARD doma	9130417A21Rik // Asc // TMS-1	AK050905	66824	ENSMUSG00000030793	6.91	8.23
---	up	2.50	8.54E-03	chr16(-):84974154-84975696	UCSC	---	---	AK079655	---	---	7.62	8.94
Gm10872	up	2.50	3.88E-03	chr15(-):76097239-76100270	UCSC	predicted gene 10872	---	AK155479	---	ENSMUSG00000075583	7.58	8.90
---	up	2.47	3.45E-02	chr9(-):104204258-104207239	UCSC	---	---	AK155854	---	---	8.91	10.21
---	up	2.46	2.00E-02	chr9(+):74838119-74840160	UCSC	---	---	AK149158	---	---	6.58	7.88
Cpne2	up	2.46	4.30E-02	chr6(+):97056928-97094431	UCSC	copine II	3322401K10Rik // MGC:30751 // 1	BC031901	234577	ENSMUSG00000034361	9.27	10.57
Tnfrsf2	up	2.46	2.33E-02	chr12(+):112680869-11269328	UCSC	tumor necrosis factor	Tnfrsf2 // Tnfr54 // Tnfrp2	AK170719	21928	ENSMUSG00000021281	8.26	9.56
---	up	2.46	1.95E-02	chr12(+):103622378-103624318	UCSC	---	---	AK134104	---	---	7.18	8.48
---	up	2.46	2.41E-02	chr1(+):91644470-91646286	UCSC	---	---	AK158736	---	---	5.62	6.92
5330402F18Rik // Ntn2	up	2.45	9.24E-03	chr2(-):29050314-29108513	UCSC	RIKEN cDNA 533040	2610016D08Rik // Lmnt2	BC145600	171171	ENSMUSG00000035513	8.16	9.45
Gm10693	up	2.44	3.16E-02	chr7(-):3812283-3820755	UCSC	predicted pseudogene	---	AK137448	675749	ENSMUSG00000074420	9.30	10.58
Nlrp3	up	2.43	1.16E-03	chr1(+):59355087-59380458	UCSC	NLR family, pyrin dom	C1as1 // cryopyrin // Mmiq1 // NALP3	AY495377	216799	ENSMUSG00000032691	8.28	9.56
9230118N17Rik	up	2.42	1.62E-02	chr7(+):142758539-142759809	UCSC	RIKEN cDNA 923011	---	AK020358	---	---	5.97	7.24
A730014G21Rik	up	2.42	3.78E-02	chr14(+):98540304-98541878	UCSC	RIKEN cDNA A73001	---	AK042670	---	---	7.40	8.68
Mrgpra2b	up	2.41	4.64E-02	chr7(-):54719177-54784232	UCSC	MAS-related GPR, me	MrgA2 // Mrgpra2	AY042192	235712	ENSMUSG00000054040	10.89	12.16
Bclp1 // Bclp2	up	2.41	9.74E-03	chr3(-):105819669-105835815	UCSC	brain chitinase like pr	---	AK081756	228677	ENSMUSG00000043873	6.47	7.74
Acta2	up	2.40	2.69E-02	chr19(+):34315580-34329826	UCSC	actin, alpha 2	smoothb10041G09Rik // a-SMA // Actv	AK156331	---	---	7.29	8.55
E130106K03Rik	up	2.40	2.92E-03	chr11(+):31800792-31806290	UCSC	RIKEN cDNA E13010	---	AK056336	---	---	6.25	7.51
Pilra	up	2.39	2.31E-02	chr5(-):138263180-138277481	UCSC	paired immunogloblin-	FD03	AK041670	231805	ENSMUSG00000046245	10.31	11.56
Olfir1394	up	2.39	2.20E-03	chr11(+):48973515-48974456	UCSC	olfactory receptor 139	Ga_xk02T2QP8b-6274566-62	BC127968	258273	ENSMUSG00000048378		

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change ≥ 1.5; P-Value ≤ 0.05); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Nfam1	up	2.33	3.64E-02	chr15(-):82627166-82863797	<a href="#">UCSC</a>	Nfat activating molecule	4921501M20Rik // Nfam1	AK152688	74039	ENSMUSG00000058099	9.00	10.22
Ccdc63	up	2.32	1.56E-02	chr5(-):122558065-122590832	<a href="#">UCSC</a>	coiled-coil domain con	4921511C16Rik	AK029513	330188	ENSMUSG00000043036	6.44	7.65
Ampd3	up	2.31	4.69E-02	chr7(+):117911720-117955917	<a href="#">UCSC</a>	adenosine monophos	---	D85596	117177	ENSMUSG00000005686	8.98	10.19
Fgr	up	2.31	3.75E-02	chr4(+):132530033-132559629	<a href="#">UCSC</a>	Gardner-Rasheed feil	---	AK157640	14191	ENSMUSG00000028974	9.48	10.68
Bnfr1a	up	2.31	4.63E-02	chr14(+):35224255-35315745	<a href="#">UCSC</a>	bone morphogenetic	11110037122Rik // ALK3 // Bmpr1	AK132651	12166	ENSMUSG00000021798	6.78	7.93
Pycr1	up	2.31	3.72E-02	chr11(-):120497026-120505014	<a href="#">UCSC</a>	pyroline-5-carboxylat	MGC:11688	AK139185	203027	ENSMUSG00000025140	7.95	9.16
Pmp22	up	2.31	4.77E-02	chr11(+):62945011-62973048	<a href="#">UCSC</a>	peripheral myelin prot	Gas-3	M32240	18858	ENSMUSG00000018217	6.62	7.83
Plp2	up	2.30	1.06E-02	chrX(-):7245069-7244849	<a href="#">UCSC</a>	proteolipid protein 2	miMA4	AK012816	18824	ENSMUSG000000031146	8.31	9.51
---	up	2.30	2.56E-02	chr6(-):69176847-69177123	<a href="#">UCSC</a>	---	---	AF139247	---	---	11.14	12.34
---	up	2.30	1.23E-02	chr9(-):5834138-5835942	<a href="#">UCSC</a>	---	---	AK134019	---	---	7.75	8.94
Ccpg1	up	2.29	7.78E-03	chr9(+):72833383-72864145	<a href="#">UCSC</a>	cell cycle progression	1700030B06Rik // 181007J313R	AK134675	72278	ENSMUSG00000034563	9.79	10.39
Pon3	up	2.29	1.57E-02	chr6(-):5170852-5206253	<a href="#">UCSC</a>	paraoxonase 3	---	AK076090	268823	ENSMUSG00000029759	8.39	9.59
Syne1	up	2.29	2.92E-02	chr10(+):5151834-5325620	<a href="#">UCSC</a>	synaptic nuclear envel	8B // A330049M09Rik // C13003	AK281870	64009	ENSMUSG00000019769	9.91	11.11
Cor2	up	2.28	6.22E-04	chr9(-):110956990-110960024	<a href="#">UCSC</a>	chemokine (C-C motif	1810047105Rik // CCR11 // Cmk	AK145846	54199	ENSMUSG00000043953	10.02	11.21
6030400A10Rik	up	2.28	1.50E-02	chr5(+):43646396-43657607	<a href="#">UCSC</a>	RIKEN cDNA 603040	---	AK020045	---	---	6.40	7.59
Oosp1	up	2.28	3.54E-02	chr19(-):11741950-11765546	<a href="#">UCSC</a>	oocyte secreted prote	---	AK033038	170834	ENSMUSG00000041857	8.12	9.31
---	up	2.28	2.17E-02	chr19(+):8094047-8095101	<a href="#">UCSC</a>	---	---	AK161725	---	---	8.29	9.48
Clic5	up	2.28	1.35E-02	chr17(+):44325532-44416455	<a href="#">UCSC</a>	chloride intracellular c	5730531E12Rik	AK156849	224796	ENSMUSG00000023959	6.40	7.59
---	up	2.28	4.00E-02	chr16(-):85136862-85142316	<a href="#">UCSC</a>	---	---	AK050788	---	---	6.10	7.29
---	up	2.27	4.67E-02	chr1(+):185870793-185872680	<a href="#">UCSC</a>	---	---	AK080157	---	---	8.67	9.86
---	up	2.27	4.32E-02	chr11(-):74245972-74247475	<a href="#">UCSC</a>	---	---	AK082577	---	---	7.22	8.40
A630001O12Rik	up	2.26	1.07E-02	chr8(+):129363131-129375733	<a href="#">UCSC</a>	RIKEN cDNA A63000	---	AK172442	---	ENSMUSG00000074025	7.06	8.24
Klra17	up	2.26	1.58E-02	chr6(-):129781168-129826691	<a href="#">UCSC</a>	killer cell lectin-like re	Ly-49Q // Ly49Q // Ly49q1	AB033769	170733	ENSMUSG00000014543	6.23	7.41
---	up	2.26	4.86E-02	chr5(-):20530334-20531843	<a href="#">UCSC</a>	---	---	---	---	---	6.40	7.57
Cd59a	up	2.26	2.28E-03	chr2(+):103935989-103955606	<a href="#">UCSC</a>	Cd59a antigen	Cd59 // protectin	AK002743	12509	ENSMUSG000000032679	7.91	9.09
---	up	2.25	1.11E-02	chr14(+):62534144-6535723	<a href="#">UCSC</a>	---	---	AK043889	---	---	6.38	7.53
---	up	2.24	2.88E-03	chr9(+):86737325-86734763	<a href="#">UCSC</a>	---	---	AK089540	---	---	9.42	10.58
Clec4e	up	2.24	1.23E-02	chr6(-):123231806-123239889	<a href="#">UCSC</a>	C-type lectin domain f	Clec3f9 // Mincle	AK150899	56619	ENSMUSG000000030142	9.78	10.95
---	up	2.24	2.49E-02	chr18(+):4994932-5003074	<a href="#">UCSC</a>	---	---	AK085972	---	---	8.22	9.39
---	up	2.24	4.03E-02	chr12(+):17764748-17767247	<a href="#">UCSC</a>	---	---	AK136551	---	---	6.42	7.58
Rab11fip5	up	2.22	1.69E-02	chr6(-):85284957-85324628	<a href="#">UCSC</a>	RAB11 family interact	9130206P09Rik // D6Ert32e // C	AK129230	52055	ENSMUSG000000051343	6.87	8.02
Sepr1	up	2.22	2.37E-02	chr4(-):134093811-134101229	<a href="#">UCSC</a>	selenoprotein N, 1	1110019H12Rik	BC127935	74777	ENSMUSG000000050989	7.56	8.72
---	up	2.22	1.73E-02	chr19(+):53425731-53429499	<a href="#">UCSC</a>	---	---	AK132339	---	---	6.80	7.95
---	up	2.22	3.70E-02	chr18(+):4924116-4926394	<a href="#">UCSC</a>	---	---	AK035407	---	---	8.03	9.18
---	up	2.21	3.82E-02	chr6(-):99428489-99431033	<a href="#">UCSC</a>	---	---	AK032946	---	---	8.70	6.84
---	up	2.21	2.76E-02	chr5(+):43639424-43640996	<a href="#">UCSC</a>	---	---	AK142870	---	---	7.05	8.20
Slc40a1	up	2.21	6.28E-03	chr1(-):45964915-45983364	<a href="#">UCSC</a>	solute carrier family 4	Dusg // ferroportin 1 // FPN1 // IR	AK144790	53945	ENSMUSG000000025993	9.86	10.20
---	up	2.20	1.38E-02	chr7(-):70285871-70288121	<a href="#">UCSC</a>	---	---	X65538	---	---	11.07	12.20
Rel1	up	2.20	2.42E-02	chr5(-):64300137-64360136	<a href="#">UCSC</a>	REL1-like 1	---	AK140108	100532	ENSMUSG000000047881	7.86	9.00
Piwil2	up	2.20	3.06E-02	chr14(-):70772285-70828901	<a href="#">UCSC</a>	piwi-like homolog 2 (D	mili // Mwiilike	AB032605	57746	ENSMUSG000000036644	6.25	7.39
Agap1	up	2.20	2.86E-02	chr1(+):9135180-913791852	<a href="#">UCSC</a>	ArfGAP with GTPase	Centg2 // Ggap1 // mKIAA1099	AK147603	347722	ENSMUSG000000055013	7.90	9.04
---	up	2.20	9.74E-03	chr10(-):95226256-95229117	<a href="#">UCSC</a>	---	---	AK158373	---	---	5.73	6.86
---	up	2.19	2.00E-02	chr6(-):99315482-99316577	<a href="#">UCSC</a>	---	---	AK038328	---	---	7.45	8.59
---	up	2.19	3.60E-03	chr19(+):9116598-9117986	<a href="#">UCSC</a>	---	---	AK041788	---	---	7.17	8.30
Plkfb4	up	2.18	2.60E-02	chr9(+):108893947-108934711	<a href="#">UCSC</a>	6-phosphofructo-2-kin	---	BC057594	270198	ENSMUSG000000025648	8.10	9.22
Gm4132	up	2.18	7.66E-03	chr12(-):117518871-117519462	<a href="#">UCSC</a>	predicted gene 4132	---	AK158567	100042963	---	6.83	7.96
---	up	2.18	4.91E-02	chr1(+):82935997-82934121	<a href="#">UCSC</a>	---	---	AK080205	---	---	6.96	8.08
---	up	2.17	3.50E-02	chr9(+):86755955-86757931	<a href="#">UCSC</a>	---	---	AK149039	---	---	7.98	9.10
Tnfrsf17	up	2.17	3.66E-02	chr16(+):11313902-11320185	<a href="#">UCSC</a>	tumor necrosis factor	BCM // Tnfrsf13 // Tnfrsf13a	AK020247	21935	ENSMUSG000000022496	7.58	8.70
5330427O13Rik	up	2.17	8.20E-04	chr14(+):64766694-64769704	<a href="#">UCSC</a>	RIKEN cDNA 533042	---	AK036170	---	---	6.41	7.52
Emilin2	up	2.16	3.34E-03	chr17(-):71601513-71660897	<a href="#">UCSC</a>	elastin microfibril inter	basilin // FOAP-10	AK171303	246707	ENSMUSG000000024053	8.89	10.00
---	up	2.16	1.11E-02	chr17(-):18045212-18047231	<a href="#">UCSC</a>	---	---	AK085637	---	---	7.80	8.92
Plau	up	2.15	4.92E-02	chr14(+):21655884-21662610	<a href="#">UCSC</a>	plasminogen activator	u-PA // uPA // urokinase-typeplas	X02389	18792	ENSMUSG000000021822	7.29	8.40
Gabra4	up	2.14	1.98E-02	chr5(-):71960699-72049548	<a href="#">UCSC</a>	gamma-aminobutyric	Gabra-4	AK141571	14397	ENSMUSG000000029211	7.06	7.16
Fads3	up	2.14	1.50E-02	chr19(+):10116059-10134600	<a href="#">UCSC</a>	fatty acid desaturase	---	AK090042	60527	ENSMUSG000000024664	6.47	8.57
Hmox1	up	2.13	9.68E-03	chr8(+):77617516-77624488	<a href="#">UCSC</a>	heme oxygenase (dec	D8Wsu38e // hemoxygenase1	AK159959	15368	ENSMUSG000000005413	9.72	10.81
B3gnt8	up	2.13	4.78E-02	chr7(+):26412657-26414509	<a href="#">UCSC</a>	UDP-GlcNAc:betaGal	B3gal7 // MGC:32391	BC025206	232984	ENSMUSG000000059478	6.70	7.79
---	up	2.13	2.48E-02	chr3(-):75756046-75758223	<a href="#">UCSC</a>	---	---	AK148993	---	---	6.40	7.49
Tcf7l2	up	2.13	3.38E-02	chr14(+):55816310-56007721	<a href="#">UCSC</a>	transcription factor 7	4mTcf-4B // mTcf-4E // Tcf-4 // Tcf	BC011397	21416	ENSMUSG000000024985	7.80	8.89
Mfsd6	up	2.13	8.72E-03	chr1(+):52714296-52784306	<a href="#">UCSC</a>	solute carrier family 22	Dctn1	AK035895	98882	ENSMUSG000000055802	9.71	10.81
---	up	2.12	4.38E-02	chr8(+):3672429-3672954	<a href="#">UCSC</a>	major facilitator super	221001L05Rik // 963002522Ri	AK043010	---	---	6.59	7.68
---	up	2.12	3.70E-02	chr6(-):67892071-67892336	<a href="#">UCSC</a>	---	---	---	---	---	9.81	10.89
Fry	up	2.12	1.18E-03	chr5(+):150921242-151193433	<a href="#">UCSC</a>	furry homolog (Drosop	9330186A19Rik // cg003	AK157981	320365	ENSMUSG000000056602	7.26	8.34
---	up	2.12	3.93E-02	chr2(-):146147191-146148631	<a href="#">UCSC</a>	---	---	AK148925	---	---	6.40	7.49
---	up	2.12	3.05E-02	chr17(+):14034118-14035426	<a href="#">UCSC</a>	---	---	AK047822	---	---	5.94	7.03
Grina	up	2.12	1.06E-03	chr15(+):76077217-76080339	<a href="#">UCSC</a>	glutamate receptor, io	1110025J15Rik	BC019157	66168	ENSMUSG000000022564	11.77	12.86
---	up	2.12	2.00E-02	chr14(+):22119413-22121952	<a href="#">UCSC</a>	---	---	AK037322	---	---	7.84	8.92
Gsr	up	2.11	3.05E-02	chr8(+):34763710-34808633	<a href="#">UCSC</a>	glutathione reductase	D8Ert238e // Gr-1 // Gr1	BC057325	14782	ENSMUSG000000031584	10.20	11.28
Cpr7l	up	2.11	4.29E-02	chr7(-):18919935-18929504	<a href="#">UCSC</a>	G protein-coupled rec	C5L2 // E030029A11Rik	AK053187	318430	ENSMUSG000000074361	8.46	9.54
Slc22a4	up	2.11	2.24E-02	chr11(+):53796629-53841606	<a href="#">UCSC</a>	solute carrier family 22	Ctn1	AK143595	30805	ENSMUSG000000020334	7.06	8.14
Pde7b	up	2.10	4.22E-02	chr10(-):20117810-20444895	<a href="#">UCSC</a>	phosphodiesterase 7B	---	AK035385	29863	ENSMUSG000000019990	6.69	7.76
4732465J04Rik	up	2.10	1.29E-02	chr10(+):95200711-95259870	<a href="#">UCSC</a>	RIKEN cDNA 473246	---	AK169506	---	---	5.99	7.06
Tmem176a	up	2.10	2.19E-02	chr6(+):48791504-48797047	<a href="#">UCSC</a>	transmembrane protei	0610011104Rik	AK079378	66058	ENSMUSG0		

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Dnase1f1	up	2.06	3.74E-02	chr(X):71518556-71527672	<a href="#">UCSC</a>	deoxyribonuclease 1	D2310005K03Rik // Dnase1f1 // Dn	BC023246	69537	ENSMUSG00000019088	7.47	8.51
Klf7	up	2.06	2.58E-03	chr(1):64080059-64168000	<a href="#">UCSC</a>	Kruppel-like factor 7	l9830124P08Rik	AF338369	93691	ENSMUSG00000025958	9.01	10.05
F420015M19Rik	up	2.06	1.86E-02	chr17(+):80963368-80965648	<a href="#">UCSC</a>	RIKEN cDNA F42001	---	AK143604	619329	---	9.11	10.15
Lasp1	up	2.06	1.19E-02	chr11(+):97605982-97700078	<a href="#">UCSC</a>	LIM and SH3 protein	Def-4 // SH3P6 // Tg(11Colt1a)N	AK154656	16796	ENSMUSG00000038366	10.15	11.19
Ldlr	up	2.05	2.28E-02	chr(4):21528042-21554360	<a href="#">UCSC</a>	low density lipoprotein	---	AK151968	16935	ENSMUSG00000033193	7.65	8.69
Rbpms	up	2.05	2.26E-02	chr(8):34893119-35040292	<a href="#">UCSC</a>	RNA binding protein	g2010300K22Rik // 2700019M19R	AK079238	19663	ENSMUSG000000031586	8.12	9.15
2210406H18Rik	up	2.05	5.23E-04	chr7(-):128206366-128207477	<a href="#">UCSC</a>	RIKEN cDNA 2210406	---	AK008836	---	---	8.37	9.40
---	up	2.05	3.88E-02	chr6(-):51820227-51822669	<a href="#">UCSC</a>	---	---	AK043856	---	---	8.04	9.07
Piafr	up	2.05	1.88E-02	chr4(+):132120138-132136774	<a href="#">UCSC</a>	platelet-activating factor	PAFR // PAFreceptor	AK032547	19204	ENSMUSG00000056529	9.71	10.74
1700029J11Rik	up	2.05	2.64E-02	chr2(+):172298046-172299817	<a href="#">UCSC</a>	RIKEN cDNA 1700029	---	BC137932	76426	ENSMUSG00000027505	6.99	8.02
---	up	2.05	1.79E-02	chr1(-):88865571-88866327	<a href="#">UCSC</a>	---	---	AK089357	---	---	6.46	7.50
---	up	2.05	6.55E-04	chr11(+):97691483-97694620	<a href="#">UCSC</a>	---	---	AK082834	---	---	6.65	7.68
4833419F23Rik	up	2.04	1.33E-02	chr18(+):4353544-4368918	<a href="#">UCSC</a>	RIKEN cDNA 483341	---	AK014726	---	ENSMUSG00000086803	6.09	8.12
Gm889	up	2.04	1.23E-02	chr12(-):40902080-40926079	<a href="#">UCSC</a>	predicted gene 889	LOC380755	AK134025	380755	ENSMUSG00000071342	6.66	7.69
---	up	2.04	3.38E-02	chr10(-):82050153-82053008	<a href="#">UCSC</a>	---	---	AK140463	---	---	6.90	7.93
Tirap	up	2.03	2.88E-02	chr(3):34994370-35007878	<a href="#">UCSC</a>	tol-1-interleukin 1 recep	C130027E04Rik // Mal // MyD88	AK151177	117149	ENSMUSG00000032041	7.59	8.61
4833407H14Rik	up	2.03	4.35E-02	chr19(+):53535111-53537213	<a href="#">UCSC</a>	RIKEN cDNA 483340	---	AK014661	---	---	7.59	8.61
Il10rb	up	2.03	1.88E-02	chr16(+):91408734-91410246	<a href="#">UCSC</a>	interleukin 10 receptor	6620401D04Rik // CRF2-4 // Crtf	AK137922	16155	ENSMUSG00000022969	7.08	8.10
Sel1l	up	2.03	1.68E-02	chr12(-):93045060-93087597	<a href="#">UCSC</a>	sel-1 suppressor of lin	Sel1h	AK220502	20338	ENSMUSG00000020964	9.69	10.71
---	up	2.02	6.26E-03	chr1(+):60836196-60838305	<a href="#">UCSC</a>	---	---	AK037422	---	---	7.94	8.95
---	up	2.02	4.44E-02	chr(3):78958512-78963341	<a href="#">UCSC</a>	---	---	AK046811	---	---	7.29	8.31
Soat2	up	2.02	1.59E-02	chr15(+):101981006-101993889	<a href="#">UCSC</a>	sterol O-acyltransferase	ACAT2 // D15Wsu97e	BC025931	223920	ENSMUSG00000023045	7.46	8.47
Atp6v0a1	up	2.02	4.64E-02	chr11(+):100870794-100925029	<a href="#">UCSC</a>	ATPase, H+ transport	Atp6n1 // Atp6n1a // V-ATPasea	AF218249	11975	ENSMUSG00000019302	9.10	10.11
Rab11fp1	up	2.01	1.60E-02	chr8(-):28279312-28281484	<a href="#">UCSC</a>	RAB11 family interact	2010200K21Rik // 4833414G05R	AK042782	75767	ENSMUSG000000031488	8.38	9.39
---	up	2.01	4.55E-02	chr8(+):119817841-119820313	<a href="#">UCSC</a>	---	---	AK037137	---	---	8.00	9.01
Amyg	up	2.01	1.85E-02	chr11(+):109334866-109434841	<a href="#">UCSC</a>	arylsulfatase G	6330406P08Rik	AK158728	74008	ENSMUSG00000020604	6.70	7.70
Slx11	up	2.00	3.76E-03	chr10(-):12659787-12684040	<a href="#">UCSC</a>	syn-taxin 11	9830405C08Rik	AK017897	74732	ENSMUSG00000039232	8.11	9.11
4933416M07Rik	up	2.00	7.82E-03	chr8(+):28253382-28260179	<a href="#">UCSC</a>	RIKEN cDNA 493341	---	AK016835	---	---	6.50	7.50
---	up	2.00	5.86E-03	chr7(+):75366605-75368165	<a href="#">UCSC</a>	---	---	AK037379	---	---	6.61	7.61
2010310C07Rik	up	2.00	2.87E-02	chr4(-):42320667-42331214	<a href="#">UCSC</a>	RIKEN cDNA 201031	---	AK008560	---	---	6.06	7.06
Gcnt1	up	2.00	1.36E-02	chr19(-):17400633-17447336	<a href="#">UCSC</a>	glucosaminyl (N-acetyl	5630400D21Rik // 6-N-acetylgluc	D87332	14537	ENSMUSG00000038843	8.23	9.23
---	up	2.00	1.82E-02	chr1(+):185668292-185870661	<a href="#">UCSC</a>	---	---	AK040639	---	---	9.27	10.26
9330160F10Rik	up	2.00	9.28E-03	chr11(+):68871220-68873986	<a href="#">UCSC</a>	RIKEN cDNA 933016	---	AK137386	---	ENSMUSG00000072808	9.36	8.36
---	up	1.99	8.08E-03	chr6(-):70290867-70291174	<a href="#">UCSC</a>	---	---	L09018	---	---	10.83	11.83
Gm6209	up	1.99	4.39E-02	chr3(-):50320321-50411145	<a href="#">UCSC</a>	predicted gene 6209	---	AK138462	621304	---	6.18	7.18
Myo1f	up	1.99	4.16E-02	chr17(+):33692664-33744709	<a href="#">UCSC</a>	myosin IF	C330006B10Rik	BC046502	17916	ENSMUSG00000024300	8.72	9.71
Dab1	up	1.99	2.55E-02	chr14(-):78963810-79051951	<a href="#">UCSC</a>	diacylglycerol kinase	5830402B05Rik	AK133314	380921	ENSMUSG00000034731	7.34	8.33
Zfx3	up	1.98	4.08E-02	chr8(+):11238544-111481839	<a href="#">UCSC</a>	zinc finger homeobox	AZ30102L03Rik // Afb1 // WBP9	D26046	11906	ENSMUSG00000038872	7.81	8.80
Ptpre	up	1.98	3.01E-02	chr7(+):142729164-142877976	<a href="#">UCSC</a>	protein tyrosine phosph	PTPe // PTPepsilon // RPTPepsa	U35368	19267	ENSMUSG000000041836	8.95	9.94
---	up	1.98	4.23E-02	chr16(-):85155444-85158481	<a href="#">UCSC</a>	---	---	AK030475	---	---	7.01	8.00
---	up	1.98	4.74E-02	chr14(-):98494855-98500410	<a href="#">UCSC</a>	---	---	AK140944	---	---	5.92	6.90
A530023O14Rik	up	1.97	6.12E-03	chr7(-):111503894-111518399	<a href="#">UCSC</a>	RIKEN cDNA A53002	---	AK080092	244183	ENSMUSG00000052749	6.14	7.12
2310044K18Rik	up	1.97	2.82E-03	chr7(+):90808064-90809473	<a href="#">UCSC</a>	RIKEN cDNA 231004	---	AK009804	---	ENSMUSG00000085080	7.27	8.25
2310016D23Rik	up	1.97	2.17E-02	chr1(+):60835688-60860632	<a href="#">UCSC</a>	RIKEN cDNA 231001	---	AK009383	---	ENSMUSG00000085965	8.58	9.55
Lilrb4	up	1.97	2.48E-03	chr10(+):51210768-51216149	<a href="#">UCSC</a>	leukocyte immunoglob	CD85K // Gp49b // HM18 // ILT3	AK155750	14728	ENSMUSG00000062593	11.53	12.51
---	up	1.97	4.06E-02	chr3(-):50428269-50432334	<a href="#">UCSC</a>	---	---	AK036888	---	---	6.34	7.32
Rnd1	up	1.97	1.87E-02	chr15(-):98493852-98507894	<a href="#">UCSC</a>	Rho family GTPase 1	A830014L09Rik // Arhs	AK039992	223881	ENSMUSG00000054855	7.41	8.39
---	up	1.97	1.30E-02	chr11(+):76600433-76602537	<a href="#">UCSC</a>	---	---	AK036548	---	---	6.94	7.92
Ndufa1	up	1.96	1.13E-02	chr(X):34727586-34731140	<a href="#">UCSC</a>	NADH dehydrogenase	1810049F12Rik // MWFE	AK007840	54405	ENSMUSG00000016427	7.41	8.39
---	up	1.96	2.98E-02	chr14(-):68541069-68546662	<a href="#">UCSC</a>	---	---	AK137797	---	---	6.18	7.15
4833406M21Rik	up	1.96	4.74E-02	chr13(+):110440121-110441927	<a href="#">UCSC</a>	RIKEN cDNA 483340	---	AK014658	---	---	6.64	7.61
Hrh2	up	1.96	9.16E-03	chr13(+):54287497-54317801	<a href="#">UCSC</a>	histamine receptor H2	---	AK020259	15466	ENSMUSG00000034987	7.32	8.29
---	up	1.95	2.46E-02	chr6(+):149259938-149262913	<a href="#">UCSC</a>	---	---	AK165110	---	---	9.25	10.22
---	up	1.95	3.61E-02	chr10(+):3412137-3413643	<a href="#">UCSC</a>	---	---	AK038189	---	---	8.34	9.30
Kif1b	up	1.95	7.60E-04	chr4(-):148550431-148681844	<a href="#">UCSC</a>	kinesin family membe	A530096N05Rik // D4M1e // Kif	AB023656	16561	ENSMUSG00000063077	8.17	9.13
---	up	1.95	4.57E-02	chr4(+):31923208-31926070	<a href="#">UCSC</a>	---	---	AK029559	---	---	7.54	8.51
---	up	1.95	6.34E-03	chr3(-):107535977-107540869	<a href="#">UCSC</a>	---	---	AK076420	---	---	5.49	6.46
---	up	1.95	4.74E-02	chr2(-):60690036-60692497	<a href="#">UCSC</a>	---	---	AK028585	---	---	5.86	6.82
Cdc42ep2	up	1.95	2.31E-02	chr19(+):5916128-5924817	<a href="#">UCSC</a>	CDC42 effector protei	1110008C05Rik // Borg1 // Cep2	AK030304	104252	ENSMUSG00000045664	8.01	8.97
D030074K08Rik	up	1.95	2.73E-02	chr15(-):93118326-93121230	<a href="#">UCSC</a>	RIKEN cDNA D03007	---	AK083749	---	---	7.21	8.17
---	up	1.95	8.66E-03	chr11(-):80581699-80585486	<a href="#">UCSC</a>	---	---	AK085124	---	---	6.49	7.46
---	up	1.95	2.64E-02	chr11(-):46181573-46188485	<a href="#">UCSC</a>	---	---	AK138049	---	---	8.30	9.26
Mgl1	up	1.94	3.16E-02	chr6(+):88674425-88778351	<a href="#">UCSC</a>	monoglyceride lipase	Magl	AJ011118	23945	ENSMUSG00000033174	7.19	8.15
---	up	1.94	3.25E-02	chr19(-):5920971-5923294	<a href="#">UCSC</a>	---	---	AK048173	---	---	6.24	7.19
---	up	1.93	2.10E-02	chr10(+):3435489-3441640	<a href="#">UCSC</a>	---	---	AK137924	---	---	7.19	8.15
---	up	1.93	5.22E-03	chr1(-):132982829-132988726	<a href="#">UCSC</a>	---	---	AK142966	---	---	8.14	9.09
Spry4	up	1.93	4.54E-02	chr18(-):38745926-38761073	<a href="#">UCSC</a>	sprouty homolog 4 (D	A030006O18Rik // sprouty4	BC057005	24066	ENSMUSG00000024427	7.25	8.20
Litaf	up	1.93	3.31E-02	chr16(-):10958952-10993216	<a href="#">UCSC</a>	LPS-induced TN facto	3222402J11Rik // N4WBP3 // Ne	AK078708	56722	ENSMUSG00000022500	10.95	11.90
Tmem63a	up	1.93	3.24E-02	chr1(+):182872596-182905234	<a href="#">UCSC</a>	transmembrane protei	MGC11687 // MGC25803	AK144899	208785	ENSMUSG00000026519	9.79	10.74
Syne2	up	1.93	4.86E-02	chr12(+):76919304-77024005	<a href="#">UCSC</a>	synaptic nuclear enve	6820449306Rik // D12Etdf777e	AK148252	319565	ENSMUSG00000063450	6.95	7.90
Nudt4	up	1.93	4.57E-02	chr10(-):95009922-95026782	<a href="#">UCSC</a>	nudix (nucleoside diph	4933436C10Rik // DIP2P // DIPF	AK048062	71207	ENSMUSG00000020029	9.87	10.82
Mxd1	up	1.92	3.16E-02	chr6(-):86598976-86619153	<a href="#">UCSC</a>	MAX dimerization prot	Mad // Mad1	AK151305	17119	ENSMUSG		

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Gm13710	up	1.91	4.50E-02	chr2(-):84340905-84374031	<a href="#">UCSC</a>	predicted gene 13710	---	AK044106	672763	ENSMUSG00000087362	7.59	8.52
---	up	1.91	3.40E-02	chr18(+):46930978-46932725	<a href="#">UCSC</a>	---	---	AK052104	---	---	6.78	7.72
---	up	1.91	1.54E-02	chr18(+):5005688-5008692	<a href="#">UCSC</a>	---	---	AK084185	---	---	6.63	7.56
Fer	up	1.91	2.16E-03	chr17(+):64215329-64488843	<a href="#">UCSC</a>	fer (fms/fps related)	pc330004K01Rik // Fer1 // Fer2	BC058100	14158	ENSMUSG0000000127	6.25	7.18
Gm14636	up	1.90	2.86E-03	chr7(+):18744107-18744370	<a href="#">UCSC</a>	predicted gene 14636	ENSMUSG00000073274	AK170409	---	---	6.40	7.33
Snapc5	up	1.90	3.41E-02	chr8(+):64028346-64030490	<a href="#">UCSC</a>	small nuclear RNA ac	2010103A03Rik	AK007634	330959	ENSMUSG00000032398	6.84	7.77
---	up	1.90	4.26E-02	chr7(-):13555677-135560834	<a href="#">UCSC</a>	---	---	AK137948	---	---	6.50	7.43
---	up	1.90	2.56E-02	chr7(-):117943947-117944975	<a href="#">UCSC</a>	---	---	BC051516	---	---	7.47	8.40
Ecm1	up	1.90	9.24E-03	chr3(-):95538071-95543494	<a href="#">UCSC</a>	extracellular matrix pr	p85	AK169939	13601	ENSMUSG00000028108	8.43	9.36
---	up	1.90	4.78E-02	chr14(-):78959157-78962636	<a href="#">UCSC</a>	---	---	AK047588	---	---	6.37	7.30
C630004H02Rik	up	1.90	2.14E-02	chr11(-):115209021-115229040	<a href="#">UCSC</a>	RIKEN cDNA C63000	---	AK138882	217310	ENSMUSG00000034586	7.61	8.54
---	up	1.89	4.97E-02	chrX(+):23320539-23322321	<a href="#">UCSC</a>	---	---	AK155735	---	---	6.48	7.40
Rab11fip1	up	1.89	2.06E-03	chr8(-):28249770-28285119	<a href="#">UCSC</a>	RAB11 family interact	2010200K21Rik // 4833414G05F	AK030769	75767	ENSMUSG00000031488	6.83	9.56
Rab20	up	1.89	1.48E-02	chr8(-):11453392-11478716	<a href="#">UCSC</a>	RAB20, member RAS	D8Erd350e	AK163743	19332	ENSMUSG00000031504	7.82	8.74
Atp1a3	up	1.89	3.24E-02	chr7(-):25763190-25790956	<a href="#">UCSC</a>	ATPase, Na+/K+ trans	Atpa-2 // MGC:27631 // MGC:38	BC020177	202975	ENSMUSG00000040907	9.14	10.05
Ilgfb2	up	1.89	2.33E-02	chr10(+):76930392-77028453	<a href="#">UCSC</a>	Integrin beta 2	ZE6 // Cdr1b // Mac-1beta	AK161236	16414	ENSMUSG00000000290	10.88	11.80
---	up	1.89	2.47E-02	chr2(+):117248514-117252234	<a href="#">UCSC</a>	---	---	AK137791	---	---	5.86	6.77
2810455808Rik	up	1.89	4.45E-02	chr16(-):31173760-31174971	<a href="#">UCSC</a>	RIKEN cDNA 2810455	---	AK013351	---	---	8.29	9.21
---	up	1.89	1.83E-02	chr15(+):74837732-74854840	<a href="#">UCSC</a>	---	---	AK085263	---	---	6.50	7.42
AV320309	up	1.89	2.81E-02	chr12(-):85206142-85207301	<a href="#">UCSC</a>	expressed sequence A	---	AK142013	---	---	7.80	8.71
Gm10456	up	1.88	4.03E-02	chrX(+):99246187-99267307	<a href="#">UCSC</a>	predicted gene 10456	---	AK158124	---	ENSMUSG00000073037	7.04	7.95
Gm10382	up	1.88	2.77E-02	chr5(+):125869691-125870924	<a href="#">UCSC</a>	predicted gene 10382	EG639281	AK132914	---	ENSMUSG00000072612	6.96	7.88
---	up	1.88	4.44E-02	chr5(+):121835531-121837110	<a href="#">UCSC</a>	---	---	AK132740	---	---	5.84	6.76
---	up	1.88	3.15E-02	chr4(+):18024764-18027497	<a href="#">UCSC</a>	---	---	AK034862	---	---	5.87	6.78
Fam63a	up	1.88	4.36E-02	chr3(+):95085766-95100099	<a href="#">UCSC</a>	family with sequence	1810005H09Rik // 493054E06R	AK169673	75007	ENSMUSG00000078645	8.23	9.14
---	up	1.88	1.16E-03	chr2(+):68851699-68852536	<a href="#">UCSC</a>	---	---	AK178428	---	---	6.71	7.62
---	up	1.88	1.30E-02	chr19(+):24614754-2463008	<a href="#">UCSC</a>	---	---	AK143465	---	---	6.91	7.82
---	up	1.88	4.12E-03	chr12(-):32685769-32689892	<a href="#">UCSC</a>	---	---	AK142349	---	---	5.96	6.87
Cd68	up	1.88	3.44E-02	chr11(-):69477715-69479655	<a href="#">UCSC</a>	CD68 antigen	gp110 // macroialin // Scard1	X68273	12514	ENSMUSG00000018774	10.47	11.38
---	up	1.88	2.05E-02	chr1(+):66858889-66861069	<a href="#">UCSC</a>	---	---	AK087152	---	---	6.07	6.98
---	up	1.87	1.88E-03	chr8(+):63502830-63504067	<a href="#">UCSC</a>	---	---	AK142998	---	---	5.23	6.14
---	up	1.87	3.07E-02	chr7(-):81536525-81538036	<a href="#">UCSC</a>	---	---	AK048580	---	---	7.67	8.58
Megf9	up	1.87	6.78E-03	chr4(+):70091925-70095432	<a href="#">UCSC</a>	multiple EGF-like-dom	4933405H16Rik // Egfl5 // mKlAa	AK155926	230316	ENSMUSG00000039270	6.35	7.25
---	up	1.87	2.10E-02	chr19(+):55847320-55849810	<a href="#">UCSC</a>	---	---	AK084192	---	---	6.08	6.99
Map3k9	up	1.87	2.47E-02	chr12(-):82822576-82882162	<a href="#">UCSC</a>	mitogen-activated pro	E130314H24Rik // Mik1	AK155677	338372	ENSMUSG00000042724	7.03	7.93
Abcc3	up	1.87	4.06E-03	chr1(-):94204610-94254311	<a href="#">UCSC</a>	ATP-binding cassette	1700019L09Rik // MRP3	AK172420	76408	ENSMUSG00000020865	8.03	8.93
Olf373	up	1.86	1.89E-03	chr8(+):74893961-74924605	<a href="#">UCSC</a>	olfactory receptor 373	GA_x6K02T2NUPS-231686-232	BC119445	258532	ENSMUSG00000081561	6.20	7.10
---	up	1.86	2.81E-02	chr7(+):1204078-124817091	<a href="#">UCSC</a>	---	---	AK028406	---	---	7.44	8.34
---	up	1.86	2.14E-02	chr7(+):90781881-90784327	<a href="#">UCSC</a>	---	---	AK085487	---	---	9.78	10.67
Tlr6	up	1.86	3.07E-02	chr5(-):65344339-65351288	<a href="#">UCSC</a>	toll-like receptor 6	---	AK154253	21899	ENSMUSG00000051498	7.15	8.05
---	up	1.86	1.43E-02	chr2(-):60631115-60633239	<a href="#">UCSC</a>	---	---	AK037924	---	---	6.51	7.41
---	up	1.86	8.12E-03	chr16(-):90984152-90987482	<a href="#">UCSC</a>	---	---	AK044844	---	---	8.48	9.38
---	up	1.85	4.43E-02	chrX(+):126884289-126886828	<a href="#">UCSC</a>	---	---	AK053195	---	---	5.70	6.58
Adrb2	up	1.85	1.97E-02	chr8(+):56090638-56093135	<a href="#">UCSC</a>	adrenergic receptor, b	Adrb-2 // Badm // beta2-adrenoce	AK043213	---	---	6.32	7.20
Socs3	up	1.85	1.51E-02	chr18(-):62337471-62339635	<a href="#">UCSC</a>	suppressor of cytokine	CIS3 // Cish3 // cytokine-inducib	AK080276	11556	ENSMUSG00000045790	9.48	10.37
---	up	1.85	1.18E-03	chr11(-):117827403-117830501	<a href="#">UCSC</a>	---	---	AK139241	12702	ENSMUSG00000053113	9.05	9.94
---	up	1.84	6.04E-03	chr10(-):95235116-9526424	<a href="#">UCSC</a>	---	---	AK084897	---	---	8.20	9.08
---	up	1.84	2.52E-02	chr2(-):17823492-178240617	<a href="#">UCSC</a>	---	---	AK159445	---	---	6.49	7.36
---	up	1.84	3.59E-02	chr17(-):46868636-46870217	<a href="#">UCSC</a>	---	---	AK087286	---	---	6.38	7.24
Lrrc6	up	1.84	1.56E-02	chr15(-):66211421-66332456	<a href="#">UCSC</a>	leucine rich repeat co	L RTP	BC046277	54562	ENSMUSG00000022375	6.38	7.26
---	up	1.84	4.09E-02	chr15(-):53156578-53160207	<a href="#">UCSC</a>	---	---	AK035801	---	---	8.09	8.97
---	up	1.83	2.52E-02	chr6(-):86613182-86615545	<a href="#">UCSC</a>	---	---	AK157959	---	---	8.64	9.51
Hspa4l	up	1.83	1.78E-02	chr3(+):40549302-40595803	<a href="#">UCSC</a>	heat shock protein 4	h94kDa // APG-1 // Osp94	BC110662	18415	ENSMUSG00000025757	6.31	7.18
---	up	1.83	8.80E-03	chr3(+):27978112-27981430	<a href="#">UCSC</a>	---	---	AK086672	---	---	6.22	7.09
Qsox1	up	1.83	4.42E-02	chr1(-):157625289-157659983	<a href="#">UCSC</a>	quiescin Q6 sulfhydry	1300003H02Rik // Qscn6	BC076590	104009	ENSMUSG00000033684	9.06	9.93
---	up	1.83	1.80E-02	chr11(+):120495080-120496439	<a href="#">UCSC</a>	---	---	AK163532	---	---	7.24	8.11
---	up	1.82	4.77E-04	chr9(+):100995190-100996802	<a href="#">UCSC</a>	---	---	AK051940	---	---	6.75	7.62
---	up	1.82	1.32E-02	chr5(-):138642904-138644726	<a href="#">UCSC</a>	---	---	AK080008	---	---	7.10	7.97
---	up	1.82	4.13E-02	chr4(+):31245110-31246804	<a href="#">UCSC</a>	---	---	AK157471	---	---	7.11	7.98
Fhl3	up	1.82	4.37E-02	chr4(+):124377979-124385314	<a href="#">UCSC</a>	four and a half LIM do	---	BC145939	14201	ENSMUSG00000032643	8.77	9.63
BC027582	up	1.82	3.69E-02	chr3(-):10335603-103356476	<a href="#">UCSC</a>	cDNA sequence BC02	---	BC027582	---	---	6.20	7.06
---	up	1.82	4.95E-02	chr18(+):46924868-46929762	<a href="#">UCSC</a>	---	---	AK088507	---	---	7.43	8.29
---	up	1.82	1.20E-02	chr15(-):51714272-51715375	<a href="#">UCSC</a>	---	---	AK089171	---	---	7.43	8.30
A730061H03Rik	up	1.82	4.16E-02	chr14(-):56177937-56179245	<a href="#">UCSC</a>	RIKEN cDNA A73006	---	AK049078	---	ENSMUSG00000053588	6.83	7.69
---	up	1.81	3.92E-02	chr10(+):127543367-127543909	<a href="#">UCSC</a>	---	---	AK021046	---	---	6.31	7.17
Rhobtb1	up	1.81	4.25E-02	chr10(+):68671300-68725730	<a href="#">UCSC</a>	Rho-related BTB dom	1700008H16Rik // 3110048G13F	AK005770	69288	ENSMUSG00000019944	7.38	8.64
Ipcefl	up	1.81	6.28E-03	chr10(+):3366075-3460176	<a href="#">UCSC</a>	interaction protein for	A130090K04Rik	AK220339	320495	ENSMUSG00000064065	8.87	9.73
---	up	1.81	2.29E-02	chr2(-):128137420-128141735	<a href="#">UCSC</a>	---	---	AK157535	---	---	6.37	7.22
Snai1	up	1.81	4.82E-02	chr2(+):167363702-167369314	<a href="#">UCSC</a>	snail homolog 1 (Dros	Sna // Sna1 // Snail // Snail1	AK144478	20613	ENSMUSG00000042821	7.43	8.28
---	up	1.81	4.31E-02	chr17(+):25699256-256972403	<a href="#">UCSC</a>	---	---	AK153778	---	---	6.65	7.51
---	up	1.81	4.61E-02	chr15(-):64055063-64059359	<a href="#">UCSC</a>	---	---	AK141775	---	---	6.98	7.82
Rnasel	up	1.81	1.56E-02	chr1(+):15559655-155611347	<a href="#">UCSC</a>	ribonuclease L (2', 5'	-c2-5A-dependent)RNAse // E230	AK140815	24014	ENSMUSG00000066800	8.16	9.02
---	up	1.80	3.68E-02	chr6(+):12859613-128597117	<a href="#">UCSC</a>	---	---	AK187487	---	---	10.43	11.28
---	up	1.80	4.03E-02	chr10(+):3868347-38691639	<a href="#">UCSC</a>	---	---	AK148977	---	---	5.17	6.02
Apfat9	up	1.80	2.78E-02	chr5(+):101275149-101328120	<a href="#">UCSC</a>	1-acylglycerol-3-phos	4933407I02Rik // A230097K15R	BC096769	231510	ENSMUSG00000029314	6.95	7.75
Csf1	up	1.80	2.24E-02	chr3(-):107543975-10756								

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
2510042O18Rik	up	1.79	4.07E-02	chr12(-):82818818-82821039	UCSC	---	---	BC036387	---	---	8.90	9.73
Cpeb2	up	1.79	2.28E-02	chr10(-):58979548-58980426	UCSC	RIKEN cDNA 251004	---	AK011095	---	---	7.64	8.48
Man1c1	up	1.78	3.15E-02	chr5(+):43625165-43680960	UCSC	cytoplasmic polyaden	A630055H10Rik	AK042065	231207	ENSMUSG00000039782	8.50	9.33
Ar	up	1.78	4.81E-02	chr4(-):134117605-134260205	UCSC	mannosidase, alpha-	---	BC067023	230815	ENSMUSG00000037306	9.16	9.99
Ppp1r3b	up	1.77	1.62E-02	chr4(+):36345011-36513456	UCSC	androgen receptor	---	AK133547	11835	ENSMUSG00000046532	6.72	7.64
Dmd	up	1.77	2.90E-02	chr8(+):36438784-36451178	UCSC	protein phosphatase 1	GL	BG079666	244416	ENSMUSG00000046794	7.16	7.99
4632428N05Rik	up	1.77	8.82E-03	chr7(+):19661909-19668125	UCSC	dystrophia myotonica-	59 / Dm9 // DMR-N9	SE0312	13401	ENSMUSG00000030410	7.68	8.50
Sfxn5	up	1.77	4.51E-02	chr10(+):59809651-59893042	UCSC	RIKEN cDNA 463242	---	AK162635	74048	ENSMUSG00000020101	10.95	11.78
Gm12703	up	1.77	1.57E-02	chr6(-):85163048-85283415	UCSC	sideroflexin 5	C230001H08Rik	AK082073	94282	ENSMUSG00000033720	8.11	8.93
---	up	1.77	1.35E-02	chr4(-):94696654-94715063	UCSC	predicted gene 12703	---	AK086407	100039265	ENSMUSG00000052767	7.06	7.88
---	up	1.77	2.74E-02	chr3(+):89897073-89898942	UCSC	---	---	AK040628	---	---	8.67	9.49
---	up	1.77	4.14E-02	chr2(+):13335759-13337900	UCSC	---	---	AK154824	---	---	6.56	7.38
Polim7	up	1.77	1.34E-02	chr13(-):55597156-55614799	UCSC	PDZ and LIM domain	1110003B01Rik // 2410002J21R	AK033091	67399	ENSMUSG00000021493	8.35	9.17
Ccl4	up	1.77	2.69E-02	chr11(+):83476087-83478182	UCSC	chemokine (C-C motif)	Act-2 // AT744.1 // MIP-1B // MIP	M23503	20303	ENSMUSG00000018930	7.16	7.99
Gm7256	up	1.77	4.72E-02	chr1(+):30929515-30930320	UCSC	predicted gene 7256	---	BC029811	638995	---	5.95	6.77
B930049P21Rik	up	1.76	3.41E-02	chr6(+):89472447-89474162	UCSC	RIKEN cDNA B93004	---	AK047332	---	---	7.51	8.33
Dab2ip	up	1.76	1.26E-02	chr2(+):35414093-35586514	UCSC	disabled homolog 2 (C	2310011D08Rik // mKIAA1743	DQ473307	69601	ENSMUSG00000026883	7.71	8.53
---	up	1.76	2.94E-02	chr17(-):80591212-80593493	UCSC	---	---	AK046325	---	---	5.65	6.47
Anxa11	up	1.76	1.46E-02	chr14(+):26661656-26706290	UCSC	annexin A11	A830099O17Rik // Anx11	U65986	11744	ENSMUSG00000021866	10.12	10.94
---	up	1.76	4.14E-02	chr14(+):26667996-26669480	UCSC	---	---	AK082026	---	---	5.94	6.76
Rap1gap2	up	1.76	4.04E-02	chr1(-):74196986-74424419	UCSC	RAP1 GTPase activat	Garnl4 // LOC380710 // mKIAA1	AK147290	380711	ENSMUSG00000038807	8.50	9.31
Nbeal2	up	1.75	1.03E-02	chr9(-):110527376-110556646	UCSC	neurobeachin-like 2	1110014F23Rik // mKIAA0540	BC172118	235627	ENSMUSG00000056724	9.03	9.84
---	up	1.75	2.66E-02	chr9(+):72904556-72906495	UCSC	---	---	AK035248	---	---	6.88	7.68
---	up	1.75	4.44E-02	chr7(+):75218326-75220020	UCSC	---	---	AK138254	---	---	6.59	7.40
---	up	1.75	4.03E-02	chr6(+):70166849-70167156	UCSC	---	---	X75398	---	---	11.09	11.90
---	up	1.75	1.93E-02	chr5(+):67783389-67785597	UCSC	---	---	AK052138	---	---	7.08	7.89
Fry	up	1.75	1.78E-02	chr5(+):115121185-1151216263	UCSC	furry homolog (Drosop	eg303186A19Rik // eg003	AK035256	320365	ENSMUSG00000056602	6.47	7.28
Rgs3	up	1.75	1.13E-02	chr4(+):62220881-62365035	UCSC	regulator of G-protein	A4930506N09Rik // C2pa // C2Pa	AJ250999	50780	ENSMUSG00000059810	9.27	10.08
Mocs1	up	1.75	3.99E-02	chr17(+):49567687-49594754	UCSC	molybdenum cofactor	3110045D15Rik	AK157231	56738	ENSMUSG00000064120	9.18	9.99
---	up	1.75	1.94E-02	chr16(-):5027866-5028477	UCSC	---	---	AK049088	---	---	7.19	8.00
---	up	1.75	1.27E-02	chr12(-):85156282-85160896	UCSC	---	---	AK142124	---	---	7.86	8.66
---	up	1.74	4.95E-02	chr6(-):99334601-99338493	UCSC	---	---	AK042037	---	---	7.11	7.92
Igk-V21-2 // Igk-V21-4	up	1.74	2.51E-02	chr6(+):70165394-70676751	UCSC	immunoglobulin kappa	(kappa)21A	X05877	626347 // 626583	0000076600 // ENSMUSG	12.38	13.18
IgJ	up	1.74	5.89E-03	chr5(-):88949540-88956874	UCSC	immunoglobulin joinin	9533009F24Rik // Jch // Jchain	AK078865	16069	ENSMUSG00000067149	11.94	12.74
---	up	1.74	4.45E-02	chr5(-):65481954-65482865	UCSC	---	---	AK050605	---	---	7.20	8.00
---	up	1.74	3.37E-02	chr5(+):122858499-122861083	UCSC	---	---	AK049864	---	---	7.12	7.92
---	up	1.74	2.19E-04	chr3(-):142042593-142044813	UCSC	---	---	AK089997	---	---	8.91	9.70
---	up	1.74	3.63E-02	chr17(+):86364818-86367514	UCSC	---	---	AK143128	---	---	8.55	9.35
C030046I01Rik	up	1.74	3.78E-02	chr10(-):79372798-79379751	UCSC	RIKEN cDNA C03004	---	AK088107	102824	ENSMUSG00000035781	10.29	11.09
Gm11123	up	1.73	3.88E-02	chrX(+):103255564-103257555	UCSC	predicted gene 11123	---	AK157679	---	---	7.12	7.91
---	up	1.73	9.70E-03	chr10(-):12672100-12675887	UCSC	---	---	AK037271	---	---	7.68	8.47
Ggt1	up	1.73	3.14E-02	chr10(+):75031407-75048935	UCSC	gamma-glutamyltrans	CD224 // dwg // GGT // Ggtp	AK079235	14598	ENSMUSG00000006345	7.79	8.58
---	up	1.73	4.90E-02	chr7(+):56849811-56862514	UCSC	---	---	BC026601	---	---	8.23	9.02
---	up	1.73	5.54E-03	chr6(-):70067072-70067359	UCSC	---	---	U29575	---	---	10.99	11.78
2900056B19Rik	up	1.73	1.16E-02	chr5(-):103154151-103154852	UCSC	RIKEN cDNA 290005	---	AK013703	---	---	6.17	6.96
Rbm47	up	1.73	3.59E-02	chr5(-):66409848-66543147	UCSC	RNA binding motif pro	9533007J19Rik // MGC:18900	AK170082	245945	ENSMUSG00000070780	7.94	8.73
Lrrc8d	up	1.73	8.74E-03	chr5(+):106129987-106244226	UCSC	leucine rich repeat co	2810473G09Rik // 4930525N13R	AK137459	231549	ENSMUSG00000046079	8.69	9.48
---	up	1.73	4.98E-02	chr2(+):120427579-120428785	UCSC	---	---	AK149564	---	---	6.82	7.62
---	up	1.73	3.05E-02	chr2(+):48975855-48978283	UCSC	---	---	AK034737	---	---	8.92	9.71
Pygm	up	1.73	4.45E-02	chr19(+):6384429-6398458	UCSC	muscle glycogen phos	---	AF124787	19309	ENSMUSG00000032648	7.46	8.25
Lyst	up	1.73	1.47E-02	chr13(+):13682661-13871067	UCSC	lysosomal trafficking r	D13Sik13	U70015	17101	ENSMUSG00000019726	9.82	10.61
---	up	1.73	4.70E-03	chr12(+):112398557-112401305	UCSC	---	---	AK089901	---	---	7.23	8.02
E030047P09Rik	up	1.73	4.77E-02	chr12(+):103602678-103605338	UCSC	RIKEN cDNA E03004	---	AK156527	---	---	7.73	8.52
---	up	1.72	3.50E-02	chr8(+):117346549-117351689	UCSC	---	---	AK079493	---	---	7.01	7.79
Ctsd	up	1.72	2.16E-02	chr7(-):149561816-149573806	UCSC	cathepsin D	CatD // CD	AK093885	13033	ENSMUSG00000007891	11.12	11.91
Xylt1	up	1.72	1.63E-04	chr7(+):124524492-124811142	UCSC	xylosyltransferase 1	---	BC157033	---	---	9.81	10.60
Camk2n1	up	1.72	2.82E-02	chr4(+):138011101-138014058	UCSC	calcium/calmodulin-de	1810006K23Rik // CaMKIIINalphe	AY523601	66259	ENSMUSG00000046447	5.86	6.64
Slc2a6	up	1.72	3.43E-02	chr2(-):26876895-26893511	UCSC	solute carrier family 2	F630103L12Rik // Glut6	AK089246	227659	ENSMUSG00000030607	8.71	9.49
803043L12Rik	up	1.72	6.76E-03	chr1(+):132980851-132981313	UCSC	RIKEN cDNA 803044	---	AK020200	---	---	8.22	9.00
Gm10345	up	1.72	4.98E-02	chr16(+):78124864-78127325	UCSC	predicted gene 10345	1700010G02Rik	GU144514	100041269	ENSMUSG00000071724	7.97	8.75
---	up	1.72	3.02E-02	chr11(+):29903130-29904519	UCSC	---	---	AK053026	---	---	6.47	7.25
---	up	1.71	2.67E-02	chr9(+):59728324-59729885	UCSC	---	---	AK142353	---	---	6.80	7.57
Pafah1b3	up	1.71	3.10E-02	chr7(-):26080066-26082974	UCSC	platelet-activating fact	mus[g] // Pafahg	U57746	18476	ENSMUSG00000005447	9.48	10.25
---	up	1.71	1.34E-02	chr10(+):57820114-57824772	UCSC	---	---	AK141104	---	---	7.99	8.77
---	up	1.71	4.37E-02	chr6(-):69676567-69676837	UCSC	---	---	X70264	---	---	12.34	13.12
---	up	1.71	2.27E-02	chr6(+):68469185-68469441	UCSC	---	---	U29593	---	---	10.76	11.53
---	up	1.71	1.12E-02	chr2(+):68729441-68733029	UCSC	---	---	AK083008	---	---	6.12	6.90
Tsga10	up	1.71	4.84E-02	chr1(-):37811621-37922145	UCSC	testis specific 10	4933432N21Rik // Mtsga10	BC066782	211484	ENSMUSG00000060771	6.81	7.58
B930069K15Rik	up	1.71	4.27E-02	chr11(+):105996132-105999643	UCSC	RIKEN cDNA B93006	---	AK081024	---	---	7.86	8.63
943009F02Rik	up	1.71	2.65E-02	chr11(+):51980322-51941281	UCSC	RIKEN cDNA 943009	---	AK035193	---	---	8.34	9.12
---	up	1.70	3.89E-02	chrX(+):12854447-128546092	UCSC	---	---	AK047731	---	---	8.91	9.67
Aph1c	up	1.70	1.86E-02	chr9(-):66662817-66682528	UCSC	anterior pharynx defec	0610008A10Rik	BC063254	68318	ENSMUSG00000053040	8.00	8.77
DBErd158e	up	1.70	4.41E-02	chr8(+):111261493-111266700	UCSC	DNA segment, Chr 8,	---	AK142804	---	---	6.43	7.19
9130230L23Rik	up	1.70	1.42E-02	chr5(-):66370597-66395525	UCSC	RIKEN cDNA 913023	---	AK033717	231253	ENSMUSG00000054598	6.76	7.52
---	up	1.70	2.18E-02	chr3(-):142049564-142051871	UCSC	---	---	AK051662	---	---	7.97	8.74
---	up	1.70	2.68E-02	chr2(-):59731151-59734695	UCSC	---	---	AK082531	---	---	5.98	6.75
---	up											

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change ≥ 1.5; P-Value ≤ 0.05); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Gm15832/Rnf149	up	1.69	3.57E-02	chr1(c):39604433-39634252	UCSC	predicted gene 15832	1600023E10Rik // Grelu4	AK155360	67702	000048234 // ENSMUSG	9.46	10.22
---	up	1.69	2.11E-02	chr16(+):45198870-45200311	UCSC	---	---	AK142053	---	---	6.62	7.38
Trb1	up	1.69	2.71E-02	chr15(+):59479904-59488654	UCSC	tribbles homolog 1 (Drosophila)	A53009015Rik // Trb1	AK028626	211770	ENSMUSG00000032501	9.01	9.77
Gpr137b-ps	up	1.69	2.13E-02	chr13(-):12707325-12742662	UCSC	G protein-coupled receptor class B group 3	ENSMUSG00000075118	AF154337	664862	ENSMUSG00000075118	9.42	10.18
B230327D02Rik	up	1.69	3.21E-02	chr2(-):85252301-8525226	UCSC	RIKEN cDNA B23032	---	AK053939	---	---	7.60	8.36
Plk36	up	1.69	4.81E-02	chr11(+):68316583-68366199	UCSC	phosphoinositide-3-kinase	---	AK169948	104709	ENSMUSG00000046207	8.23	8.98
---	up	1.68	1.63E-02	chr6(-):3275742-3277855	UCSC	---	---	AK138008	---	---	6.92	7.67
---	up	1.68	8.00E-03	chr4(+):115489112-115490999	UCSC	---	---	AK046632	---	---	6.65	7.40
Fnip2	up	1.68	2.13E-02	chr3(-):79259896-79304444	UCSC	folliculin interacting protein	D630023B12Rik // mKlAA1450	---	---	ENSMUSG00000061175	7.79	8.54
---	up	1.68	1.72E-02	chr19(+):45146756-45148927	UCSC	---	---	AK035482	---	---	5.98	6.73
Apol8	up	1.68	8.86E-03	chr15(-):77578229-77587413	UCSC	apolipoprotein L 8	9833006J20Rik // Apol2	AK046043	239552	ENSMUSG00000056656	7.41	8.16
---	up	1.68	4.80E-03	chr11(-):51397429-51398155	UCSC	---	---	AK050077	---	---	7.48	8.23
Fes	up	1.67	3.41E-02	chr7(-):87522642-87532845	UCSC	feline sarcoma oncogene c-fes	---	BC038130	14159	ENSMUSG00000053158	8.92	9.67
2610306D10Rik	up	1.67	2.44E-02	chr7(+):135682446-135683057	UCSC	RIKEN cDNA 2610306	---	AK012000	---	---	8.74	9.47
Izumot1 // Rasip1	up	1.67	4.34E-03	chr7(+):52977181-52984463	UCSC	izumo sperm-egg fusion	1700058F15Rik // 261025P08R	AK156602	69903 // 73456	000044562 // ENSMUSG	7.11	7.95
---	up	1.67	2.31E-02	chr6(+):70264897-70265190	UCSC	---	---	X63807	---	---	12.37	13.11
---	up	1.67	3.30E-02	chr5(-):20636894-20637842	UCSC	---	---	AK155887	---	---	5.94	6.68
D5Erd255e	up	1.67	1.74E-02	chr5(+):119053829-119055139	UCSC	DNA segment, Chr 5,	---	AK157080	---	---	7.15	7.89
---	up	1.67	4.19E-02	chr5(+):98460614-98463024	UCSC	---	---	AK085795	---	---	6.18	6.92
---	up	1.67	1.72E-03	chr2(-):73301402-73303562	UCSC	---	---	AK047286	---	---	8.46	9.20
---	up	1.67	1.90E-02	chr1(-):99980446-99981786	UCSC	---	---	AK149050	---	---	6.24	6.98
Slca9a3r2	up	1.67	4.73E-02	chr17(-):24776233-24787251	UCSC	solute carrier family 9	0610011L07Rik // 1200011K07R	AK084801	65962	ENSMUSG00000020504	7.76	8.50
Card10	up	1.67	3.17E-02	chr15(-):78605586-78633472	UCSC	caspase recruitment domain 10	Bimp1 // CARMA3	BC060203	105844	ENSMUSG00000033170	7.65	8.39
Naip2	up	1.67	2.31E-02	chr13(-):100914018-100972047	UCSC	NLR family, apoptosis	Birc1b // Naip-rs6 // Naip2	AY147001	17948	ENSMUSG00000078945	8.36	9.10
E230032D23Rik	up	1.66	1.41E-02	chr7(+):150813978-150856919	UCSC	RIKEN cDNA E23003	---	AK155734	---	---	7.08	7.81
---	up	1.66	4.42E-02	chr6(+):58643462-58644855	UCSC	---	---	AK136811	---	---	5.95	6.68
Ufsp1	up	1.66	2.10E-03	chr5(+):137735876-137736892	UCSC	UFM1-specific peptidase	2700038N03Rik // D5Erd655e	BC087958	70240	ENSMUSG00000051502	6.87	7.60
---	up	1.66	1.68E-02	chr18(+):44792017-44793420	UCSC	---	---	AK082442	---	---	7.69	8.42
Aim	up	1.66	2.22E-02	chr17(+):12959885-12960936	UCSC	antisense ltr2 RNA	2810051F02Rik // 2810434M15R	AK081743	104103	ENSMUSG00000064070	6.30	7.03
Prr13	up	1.66	4.12E-03	chr15(+):102289602-102293240	UCSC	proline rich 13	1110020C13Rik // 2010324E2R	AK003650	66151	ENSMUSG00000023048	10.25	10.98
---	up	1.66	1.02E-02	chr13(+):110612954-110617992	UCSC	---	---	AK143709	---	---	6.80	7.53
---	up	1.66	2.82E-02	chr11(-):29675390-29676571	UCSC	---	---	AK052982	---	---	6.50	7.24
Trpm2	up	1.66	3.88E-02	chr10(-):77371672-77432599	UCSC	transient receptor potential cation channel subfamily 6 member 2	9830168K16Rik // LTRPC2 // TRP	AB166747	28240	ENSMUSG00000009292	7.40	8.13
Slc6a8	up	1.65	4.18E-02	chrX(+):70918489-70927837	UCSC	solute carrier family 6 member 8	Creat // CRT	AF459435	102857	ENSMUSG00000019558	7.19	7.91
---	up	1.65	3.41E-02	chr7(-):107104174-107107511	UCSC	---	---	AK143127	---	---	7.41	8.13
Scn1b	up	1.65	1.81E-02	chr7(-):31901543-31912053	UCSC	sodium channel, voltage-gated, type 1, beta	---	BC039140	20266	ENSMUSG00000019194	7.12	7.84
---	up	1.65	4.78E-02	chr5(+):150933186-150956902	UCSC	---	---	AK083968	---	---	6.99	7.61
1700056E22Rik	up	1.65	1.95E-02	chr1(-):18585691-185857453	UCSC	RIKEN cDNA 1700056	---	AK006811	73363	ENSMUSG00000044854	6.94	7.66
Fcer1g	up	1.65	2.06E-02	chr1(-):173159709-173164438	UCSC	Fc receptor, IgE, high affinity	Fcrg // FcR-gamma // FcRgamma	AK155600	14127	ENSMUSG00000058715	12.05	12.77
---	up	1.65	4.63E-02	chr2(-):152639986-152643242	UCSC	---	---	AK029192	---	---	6.27	6.99
---	up	1.65	2.19E-02	chr16(+):19198647-19260937	UCSC	---	---	AY170594	---	---	11.36	12.08
Il18r1	up	1.65	6.32E-03	chr1(+):40522396-40557698	UCSC	interleukin 18 receptor	Il18ralpha // Il18rp	AK170705	16182	ENSMUSG00000026070	7.72	8.44
B4gal3	up	1.65	1.24E-02	chr1(+):173200473-173207027	UCSC	UDP-Gal-4-epimerase	9530061M23Rik // beta4Gal-III	AK155471	57370	ENSMUSG00000052423	8.75	9.46
---	up	1.65	3.84E-02	chr13(-):51769165-51771231	UCSC	---	---	AK140531	---	---	6.87	7.60
---	up	1.65	4.83E-02	chr11(-):106252163-106255073	UCSC	---	---	AK135003	---	---	6.73	7.45
Atg7	up	1.64	3.12E-02	chr6(+):114593142-114810630	UCSC	autophagy-related 7	11810013K23Rik // Apg7	AK146992	74244	ENSMUSG00000030314	9.09	9.81
Pde8a	up	1.64	3.67E-02	chr7(+):88398479-88479417	UCSC	phosphodiesterase 8A	Pde8	AK148238	18584	ENSMUSG00000025584	8.63	9.34
---	up	1.64	1.08E-02	chr6(+):89713346-89713635	UCSC	---	---	M34528	---	---	12.27	12.99
Il17ra	up	1.64	1.83E-02	chr6(+):120413244-120433747	UCSC	interleukin 17 receptor	Il17 // VDw217	AK080226	16172	ENSMUSG00000028897	10.15	10.87
Orai2	up	1.64	8.04E-03	chr5(-):136623334-136646526	UCSC	ORAI calcium release-activated calcium receptor 2	A73004015Rik // Tmem142b	AK042940	269717	ENSMUSG00000039747	7.12	7.84
5830438M01Rik	up	1.64	6.99E-04	chr16(+):32303213-32304580	UCSC	RIKEN cDNA 5830438	---	AK017980	---	---	6.10	6.81
9130004J05Rik	up	1.64	3.11E-02	chr15(+):64118016-64120310	UCSC	RIKEN cDNA 9130004	---	AK159040	---	ENSMUSG00000078299	7.82	8.54
Pde1b	up	1.64	4.96E-03	chr15(+):103333465-103360483	UCSC	phosphodiesterase 1B	---	BC058531	18574	ENSMUSG00000022489	8.04	8.75
---	up	1.64	4.71E-02	chr14(-):66798243-66799682	UCSC	---	---	AK040874	---	---	7.46	8.18
---	up	1.64	2.88E-02	chr13(-):102507346-102511389	UCSC	---	---	AK161087	---	---	8.16	8.88
---	up	1.64	3.17E-02	chr1(+):141070245-141075537	UCSC	---	---	AK087124	---	---	6.69	7.40
---	up	1.64	4.02E-03	chr1(+):91701105-91702223	UCSC	---	---	AK080524	---	---	7.50	8.21
---	up	1.64	2.30E-02	chr11(+):33981900-33985365	UCSC	---	---	AK051631	---	---	6.36	7.08
Gm	up	1.64	2.46E-02	chr11(+):102291795-102298127	UCSC	granulin	acroggranulin // epithelin // PCcell	AK018744	14824	ENSMUSG00000034708	10.96	11.67
---	up	1.63	5.48E-03	chrX(-):57480170-57481662	UCSC	---	---	AK043987	---	---	6.16	6.87
---	up	1.63	3.07E-02	chr9(-):113879102-113880119	UCSC	---	---	AK016042	---	---	7.42	8.12
Gm10621	up	1.63	4.58E-02	chr9(+):108551059-108553284	UCSC	predicted gene 10621	---	AK155210	100038635	ENSMUSG00000074075	7.76	8.47
Dapk2	up	1.63	3.07E-02	chr9(+):66006041-66120047	UCSC	death-associated protein 2	---	AB018002	13143	ENSMUSG00000032380	7.12	7.82
---	up	1.63	4.42E-02	chr7(+):142735400-142737651	UCSC	---	---	AK037215	---	---	7.59	8.29
Rab7	up	1.63	5.66E-03	chr6(-):87949104-87959527	UCSC	RAB7, member RAS subfamily	---	AK148117	19349	ENSMUSG00000079477	8.93	9.63
Antxr2	up	1.63	1.26E-02	chr5(-):98311802-98460062	UCSC	anthrax toxin receptor	2310046B19Rik // cl-35 // CMG-2	AK166124	17914	ENSMUSG00000029338	9.63	10.33
Cxcl10	up	1.63	4.76E-03	chr5(-):92775667-92777916	UCSC	chemokine (C-X-C motif) subfamily 10	C7 // CRG-2 // gIP-10 // Ili10	AK152967	15945	ENSMUSG00000034855	8.16	8.86
---	up	1.63	2.61E-02	chr4(-):59530855-59533322	UCSC	---	---	AK077900	---	---	7.73	8.44
Pla2g2e	up	1.63	8.82E-03	chr4(+):138433857-138438730	UCSC	phospholipase A2, group IIb	GIIeSPLA2s	AF112984	26870	ENSMUSG00000028751	7.54	8.25
Lrsam1	up	1.63	1.20E-02	chr2(-):32780742-32816771	UCSC	leucine rich repeat domain 1	MGC:56830	AK049146	227739	ENSMUSG00000026792	7.07	7.78
---	up	1.63	2.55E-02	chr2(+):131846942-131849651	UCSC	---	---	AK042504	---	---	7.01	7.72
---	up	1.63	1.78E-02	chr19(-):9939414-9943485	UCSC	---	---	AK084060	---	---	6.50	7.21
Vps37c	up	1.63	2.44E-02	chr19(+):10763223-10789117	UCSC	vacuolar protein sorting domain 37c	5730409F24Rik	AK158833	107305	ENSMUSG00000048832	8.21	8.92
Slc14a1	up	1.63	3.63E-02	chr18(-):78296831-78338859	UCSC	solute carrier family 14 member 1	2610507K20Rik // 3021401A05R	AK041979	108052	ENSMUSG00000059336	8.10	8.81
---	up	1.63	1.57E-02	chr1(-):52841534-52845677	UCSC	---	---	AK042597	---	---	7.39	8.09
Ets2	up	1.63	3.96									



Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change ≥ 1.5; P-Value ≤ 0.05); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Capn2	up	1.62	1.48E-02	chr1(+):60834133-60835127	UCSC	capn2	---	AK037749	---	---	8.96	9.66
Capn2	up	1.62	4.03E-02	chr1(-):184397387-184447741	UCSC	capn2	Capa-2 // Capa2 // m-calpain	D38117	12334	ENSMUSG00000026509	9.29	9.99
Orm2	up	1.62	6.78E-03	chr4(+):63023508-63026912	UCSC	orosomucoid 2	Orm-2	BC057985	18406	ENSMUSG000000061540	7.89	8.59
Atp11b	up	1.62	2.89E-02	chr3(+):35653056-35755196	UCSC	ATPase, class VI, type 11	ATPase, class VI, type 11	AK129248	76295	ENSMUSG000000037400	10.32	11.02
Hcd11	up	1.62	2.84E-03	chr7(+):23810575-23812451	UCSC	host cell factor C1 regulator	host cell factor C1 regulator	AK13438	35202	ENSMUSG00000023304	8.85	9.55
Synj1	up	1.62	1.75E-02	chr16(-):90960737-91011310	UCSC	synapoptin 1	synapoptin 1	AK080946	104015	ENSMUSG00000022973	8.76	9.40
Fam135a	up	1.62	2.21E-02	chr1(-):24017934-24107181	UCSC	family with sequence class member 135A	family with sequence class member 135A	BC070446	68187	ENSMUSG00000026153	8.70	7.45
Numb	up	1.62	8.20E-03	chr12(-):85134984-85262808	UCSC	numb gene homolog (m-numb / mmb)	numb gene homolog (m-numb / mmb)	BC033459	18222	ENSMUSG000000021224	9.93	10.62
610010K14Rik // RnaseH1	up	1.62	4.88E-03	chr11(-):70048710-70053349	UCSC	RIKEN cDNA 610011	RIKEN cDNA 610011	BC012258	104457 // 52898	000020831 // ENSMUSG	9.58	10.28
Pls1	up	1.61	4.12E-02	chr9(-):95653065-95745681	UCSC	plastin 1 (Hs isoform)	Himbrin	AK133070	102502	ENSMUSG00000049493	6.99	7.68
---	up	1.61	4.93E-02	chr8(+):101609804-101612304	UCSC	---	---	AK148860	---	---	6.81	7.50
Zswim4	up	1.61	2.90E-03	chr8(-):86734577-86760955	UCSC	zinc finger, SWIM domain containing 4	zinc finger, SWIM domain containing 4	AK053663	212168	ENSMUSG00000035671	8.34	9.02
---	up	1.61	3.74E-02	chr8(-):34970895-34973443	UCSC	---	---	AK033637	---	---	7.09	7.78
D83004416Rik	up	1.61	2.37E-02	chr7(-):134115234-134119613	UCSC	RIKEN cDNA D83004	---	AK086910	381922	ENSMUSG00000087483	7.29	7.97
Derf3	up	1.61	4.02E-02	chr10(+):75356143-75358696	UCSC	Derf1-like domain family member 3	Derf1-like domain family member 3	AB047555	70377	ENSMUSG00000009092	10.38	11.07
---	up	1.61	4.98E-02	chr4(+):41087787-41108894	UCSC	---	---	AK136940	---	---	7.79	8.48
Nup210l	up	1.61	1.88E-02	chr3(+):89908054-89971908	UCSC	nucleoporin 210-like	nucleoporin 210-like	AK019752	77596	ENSMUSG00000027939	6.82	7.51
CD59b	up	1.61	1.95E-04	chr2(+):103909962-103931345	UCSC	CD59b antigen	CD59b antigen	BC038128	333883	ENSMUSG00000006866	6.50	7.19
---	up	1.61	1.66E-02	chr1(-):13344564-13346811	UCSC	---	---	AK079436	---	---	7.72	8.41
Klf10	up	1.61	1.26E-02	chr15(-):38221219-38230464	UCSC	Kruppel-like factor 10	Egral // Gdnf // mGIF // Tieg1	AK043433	21847	ENSMUSG00000037465	8.68	9.37
Cyb5r1	up	1.61	3.30E-02	chr1(+):136302358-136308315	UCSC	cytochrome b5 reductase 1	cytochrome b5 reductase 1	BC016266	72017	ENSMUSG00000026456	8.50	9.18
---	up	1.60	1.46E-02	chr9(+):66109962-66111564	UCSC	---	---	AK136641	---	---	6.42	7.10
Insr	up	1.60	1.30E-02	chr8(-):3095058-3279552	UCSC	insulin receptor	4932439J01Rik // CD220 // D63003	BC172640	16337	ENSMUSG00000005534	8.18	8.85
Osgin1	up	1.60	2.27E-02	chr8(+):121961062-121970155	UCSC	oxidative stress inducible protein 1	oxidative stress inducible protein 1	BC022135	71839	ENSMUSG00000074063	7.71	8.39
---	up	1.60	6.24E-03	chr7(-):28423287-28424331	UCSC	---	---	BC104146	---	---	7.69	8.37
---	up	1.60	1.27E-02	chr8(+):66875674-66879407	UCSC	---	---	AK136394	---	---	7.41	8.09
---	up	1.60	4.70E-02	chr6(+):21943235-21946479	UCSC	---	---	AK084370	---	---	6.59	7.27
Thap6	up	1.60	2.57E-02	chr5(+):92391414-92401090	UCSC	THAP domain containing protein 6	THAP domain containing protein 6	BC089377	381650	ENSMUSG000000060466	7.37	8.05
---	up	1.60	1.38E-02	chr4(+):116862548-116863496	UCSC	---	---	AK154548	---	---	6.91	7.59
---	up	1.60	1.13E-02	chr3(-):27511373-27514902	UCSC	---	---	AK142096	---	---	6.50	7.17
A930010G16Rik	up	1.60	1.93E-02	chr2(-):4939492-4940852	UCSC	RIKEN cDNA A93001	C430048F02Rik	AK020843	---	---	7.98	8.66
Trp53np2	up	1.60	1.40E-03	chr2(+):155207554-155215582	UCSC	transformation related protein 53	transformation related protein 53	AK170132	68728	ENSMUSG00000038375	9.94	10.61
2010002N04Rik	up	1.60	1.38E-03	chr18(-):60633847-60661641	UCSC	RIKEN cDNA 2010002	cl-41 // Nid67	AK143383	106878	ENSMUSG00000038059	8.55	9.23
C230073G13Rik	up	1.60	3.43E-02	chr17(+):71202103-71206299	UCSC	RIKEN cDNA C23007	---	AK082636	---	---	7.72	8.40
---	up	1.60	1.94E-02	chr16(+):23989161-23992539	UCSC	---	---	AK149722	---	---	7.69	8.37
---	up	1.60	4.55E-02	chr1(+):196819454-196822389	UCSC	---	---	AK148519	---	---	7.24	7.92
Arl1	up	1.60	2.22E-02	chr14(+):9198990-91990773	UCSC	ADP-ribosylation factor 1L	ADP-ribosylation factor 1L	BC060993	219144	ENSMUSG00000043157	7.67	8.35
Sam8	up	1.60	3.01E-04	chr14(+):22569752-22617947	UCSC	sterile alpha motif domain containing 8	sterile alpha motif domain containing 8	AK147528	67630	ENSMUSG00000021770	8.06	8.74
Gpr137b	up	1.60	3.24E-02	chr13(+):13448980-13485891	UCSC	G protein-coupled receptor class C group 1 member 137b	G protein-coupled receptor class C group 1 member 137b	AK080884	83924	ENSMUSG00000021306	10.88	11.56
Ccdc88c	up	1.60	3.74E-03	chr12(-):102149734-102267269	UCSC	coiled-coil domain containing 88c	coiled-coil domain containing 88c	BC063255	68339	ENSMUSG00000021182	9.48	10.16
F7	up	1.59	4.45E-02	chr8(+):13026033-13035809	UCSC	coagulation factor VII	C7 // FVII // mFVII	AK154742	14068	ENSMUSG00000031443	7.29	7.96
Arrb1	up	1.59	2.16E-02	chr7(+):106683974-106755281	UCSC	arrestin, beta 1	1200006117Rik // beta-arrestin1	AK147566	109689	ENSMUSG00000018909	9.54	10.21
Vsig10l	up	1.59	8.14E-03	chr7(+):50726428-50727383	UCSC	ZV-set and immunoglobulin domain containing 10	ZV-set and immunoglobulin domain containing 10	AK008908	75690	ENSMUSG00000070604	9.04	9.70
---	up	1.59	7.20E-03	chr5(+):123109748-123111574	UCSC	---	---	AK086885	---	---	6.54	7.21
Gm10459	up	1.59	2.29E-02	chr5(+):33994749-33995904	UCSC	predicted gene 10459	predicted gene 10459	AK132920	---	---	6.84	7.51
Optrn	up	1.59	3.77E-02	chr2(-):4941688-4989091	UCSC	optineurin	4930441O07Rik // FTIIIA-INTP	BC061185	71648	ENSMUSG00000026672	7.29	7.95
Tmem63b	up	1.59	3.44E-03	chr17(-):80979855-81127396	UCSC	transmembrane protein 63b	transmembrane protein 63b	AK159673	224807	ENSMUSG00000036026	8.60	9.27
Lims1	up	1.59	2.28E-02	chr15(+):9698904-96705849	UCSC	LIM domain and actin-binding domain containing 1	LIM domain and actin-binding domain containing 1	AK049550	65970	ENSMUSG00000023022	6.96	7.53
3100002H20Rik	up	1.59	3.34E-03	chr15(+):72616148-72617516	UCSC	RIKEN cDNA 3100002	---	AK013917	---	---	7.55	8.22
Ahnak2	up	1.59	1.40E-02	chr12(-):114023209-114040869	UCSC	AHNAK nucleoprotein 2	AHNAK nucleoprotein 2	AK138503	100041194	ENSMUSG00000072812	7.23	7.89
2310058N22Rik	up	1.59	2.81E-02	chr12(+):117617687-117619252	UCSC	RIKEN cDNA 2310058	---	AK009987	---	---	7.49	8.16
Farp2	up	1.59	7.70E-03	chr1(+):95408654-95518551	UCSC	FERM, RhoGEF and domain containing protein 2	FERM, RhoGEF and domain containing protein 2	AK050860	227377	ENSMUSG00000034066	6.95	7.62
---	up	1.59	4.75E-02	chr11(-):6190873-6191850	UCSC	---	---	AK085849	---	---	6.09	6.76
B930032C10Rik	up	1.58	4.39E-02	chr9(+):56821681-56822545	UCSC	RIKEN cDNA B93003	---	AK047178	---	---	6.78	7.45
---	up	1.58	3.53E-02	chr6(-):72552998-72555496	UCSC	---	---	AK045661	---	---	8.88	9.54
---	up	1.58	9.81E-04	chr4(-):14727393-14728408	UCSC	---	---	AK045390	---	---	6.62	7.28
---	up	1.58	3.92E-02	chr1(-):133901165-133904587	UCSC	---	---	AK086589	---	---	7.58	8.24
Map4k3	up	1.58	1.07E-02	chr17(-):80979855-81127396	UCSC	mitogen-activated protein kinase 4	mitogen-activated protein kinase 4	BC172686	225028	ENSMUSG00000024242	7.96	8.63
Sun2	up	1.58	3.15E-02	chr15(+):75554401-75572967	UCSC	Sad1 and UNC84 domain containing 2	Sad1 and UNC84 domain containing 2	AK172398	223697	ENSMUSG00000042524	10.59	11.25
---	up	1.58	3.27E-02	chr15(+):38448540-38449821	UCSC	---	---	AK070710	---	---	7.17	7.83
---	up	1.58	3.01E-02	chr11(+):60050099-60051715	UCSC	---	---	AK054085	---	---	7.62	8.28
---	up	1.57	2.85E-02	chr9(+):58443041-58444380	UCSC	---	---	AK037677	---	---	7.02	7.68
D10Erd709e	up	1.57	4.62E-02	chr10(+):110605692-110611969	UCSC	DNA segment, Chr 10	---	AK155618	---	---	9.72	10.37
---	up	1.57	1.70E-02	chr7(-):74512602-74515867	UCSC	---	---	AK142457	---	---	8.61	9.36
---	up	1.57	2.37E-02	chr6(+):145252830-145253703	UCSC	---	---	AK084624	---	---	6.40	7.04
4930509K18Rik	up	1.57	2.11E-02	chr4(+):40260263-40264752	UCSC	RIKEN cDNA 4930509	---	AK015738	75819	ENSMUSG000000087137	5.54	6.19
Txnp1	up	1.57	7.34E-03	chr3(+):96361880-96365780	UCSC	thioredoxin interacting protein	thioredoxin interacting protein	AK089403	56338	ENSMUSG00000038393	11.01	11.66
S100a11	up	1.57	1.53E-02	chr3(+):93324416-93330209	UCSC	S100 calcium binding protein 11	calgizzarin // Emap1 // S100	AK164352	20195	ENSMUSG00000027907	12.71	12.76
9630019E01Rik	up	1.57	1.90E-02	chr2(-):146227353-146230503	UCSC	RIKEN cDNA 9630019	---	AK051384	---	---	6.12	6.78
A430019L02Rik	up	1.57	5.28E-03	chr18(+):46918210-46921631	UCSC	RIKEN cDNA A430019	---	AK089650	---	---	9.75	10.40
---	up	1.57	3.67E-02	chr16(+):84949830-84954283	UCSC	---	---	AK132225	---	---	7.42	8.07
Ly6c1	up	1.57	1.94E-02	chr15(-):74875447-74879260	UCSC	lymphocyte antigen 6C	Ly-6C // Ly6c	BC010764	17067	ENSMUSG00000079018	11.89	12.54
---	up	1.57	1.32E-02	chr12(-):82815947-82817018	UCSC	---	---	AK049005	---	---	8.08	8.73
---	up	1.57	4.19E-02	chr11(-):103533947-103535970	UCSC	---	---	AK078572	---	---	7.55	8.20
Ddx26b	up	1.56	2									

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
---	up	1.55	4.98E-02	chr9(-):73762497-73765678	UCSC	---	---	AK143113	---	---	5.91	6.55
Tcp1l12	up	1.55	2.16E-02	chr10(+):84039369-84077098	UCSC	t-complex 11 (mouse)	E430026E19Rik	AK146035	216198	ENSMUSG00000020034	8.97	9.60
Apob4r	up	1.55	3.38E-02	chr7(+):133728455-133732638	UCSC	apolipoprotein B48 related	Apob-48r	AK156422	171504	ENSMUSG000000042759	7.43	8.06
Len9	up	1.55	4.10E-02	chr7(+):4100927-4101997	UCSC	leukocyte receptor cluster	9530024C23Rik // F630035L11R	AK143899	243813	ENSMUSG000000043432	7.86	8.49
Ulk1	up	1.55	6.14E-03	chr5(+):11213507-11239118	UCSC	Unc-51 like kinase 1	(mKIAA0722 // Unc5.1	AK154938	22241	ENSMUSG000000029512	8.21	9.24
---	up	1.55	1.39E-02	chr2(-):128211989-128215224	UCSC	---	---	AK094958	---	---	6.81	7.44
---	up	1.55	3.59E-02	chr2(+):164352390-164355181	UCSC	---	---	AK162674	---	---	6.42	7.05
---	up	1.55	3.92E-03	chr15(+):12286809-12289732	UCSC	---	---	AK046972	---	---	7.03	7.66
Naip6 // Naip7	up	1.55	3.16E-02	chr13(-):101051035-101087630	UCSC	NLR family, apoptosis	Birc1f // Birc1g // Naip-rs4 // Naip	AF135494	17952	ENSMUSG00000078942	8.93	9.56
Ern1	up	1.55	4.18E-02	chr1(-):106213544-106349169	UCSC	endoplasmic reticulum	9030414B18Rik // Ire1a // Ire1alc	BC156947	78943	ENSMUSG000000020715	9.24	9.88
Mapk7	up	1.55	4.49E-02	chr11(-):61302314-61307741	UCSC	mitogen-activated protein kinase	bigMAPkinase1 // BMK1 // ERK5	BC033598	29939	ENSMUSG000000010134	8.48	9.11
Lpar4	up	1.54	1.28E-02	chrX(+):104115974-104127826	UCSC	lysophosphatic acid	5730485F04Rik // Gpr23 // LPA4a	BC052178	78134	ENSMUSG000000049928	6.42	7.04
Klfh18	up	1.54	3.23E-02	chr9(-):110328431-110379198	UCSC	kelch-like 18 (Drosophila)	MGC:36415	AK173029	270201	ENSMUSG000000054792	8.97	9.59
---	up	1.54	3.73E-02	chr9(-):30996839-31004373	UCSC	scavenger receptor class B type 1	SR-BI	AK139891	---	---	7.19	7.82
Scarb2	up	1.54	4.40E-02	chr5(-):92870335-92934667	UCSC	scavenger receptor class B type 2	SR-BII	AK149102	12492	ENSMUSG000000028426	8.72	9.34
Cldn12	up	1.54	4.16E-02	chr5(-):55051111-5514873	UCSC	claudin 12	---	BC024057	64945	ENSMUSG000000046798	7.06	7.68
---	up	1.54	9.18E-04	chr5(+):140797574-140799798	UCSC	---	---	AK033884	---	---	7.19	7.82
---	up	1.54	4.81E-02	chr5(+):34938989-34941762	UCSC	---	---	AK137996	---	---	7.39	8.02
---	up	1.54	1.54E-03	chr4(+):154939967-154943551	UCSC	---	---	AK049013	---	---	7.65	8.27
CD101	up	1.54	3.26E-02	chr3(-):100797588-100833418	UCSC	CD101 antigen	lgsf2 // LOC381460	AM849329	630146	ENSMUSG000000086564	7.12	7.75
---	up	1.54	3.24E-02	chr3(-):78939643-78942394	UCSC	---	---	AK086153	---	---	6.44	7.07
---	up	1.54	1.51E-02	chr1(-):36418467-36420462	UCSC	---	---	AK054094	---	---	7.66	8.29
Dopey2	up	1.54	9.32E-03	chr16(+):93712174-93810835	UCSC	dopey family member	0610038M01Rik // 2610510B01R	AK147255	70028	ENSMUSG000000022946	8.51	9.14
Tram2	up	1.54	1.24E-02	chr1(-):20991460-21069307	UCSC	translocating chain-associated	C330003D03Rik // MGC:25725	BC018212	170829	ENSMUSG000000041779	9.92	10.55
Tmem71	up	1.54	3.82E-03	chr15(+):66357774-66392609	UCSC	transmembrane protein	---	AK088711	213068	ENSMUSG000000036944	9.44	10.06
---	up	1.54	6.10E-03	chr1(+):195107465-195110037	UCSC	---	---	AK031988	---	---	8.98	9.61
D930049A15Rik	up	1.54	9.26E-03	chr14(-):26077009-26280615	UCSC	RIKEN cDNA D93004	---	AK086741	---	ENSMUSG000000087536	7.67	8.30
---	up	1.54	1.03E-02	chr14(+):17130724-17140838	UCSC	---	---	AK078789	---	---	7.81	8.44
Serpinc1	up	1.54	3.70E-02	chr1(+):16290877-162933141	UCSC	serine (or cysteine) proteinase inhibitor	antithrombin // At-3 // At3 // ATIII	BC019447	11905	ENSMUSG000000026715	6.72	7.34
Dapk1	up	1.54	3.06E-02	chr13(+):6070313-60864551	UCSC	death associated protein 1	2310039H24Rik // 2810425C21R	BC060161	69635	ENSMUSG000000021559	7.13	7.76
7175 // lgh-1a // lgh-6 //	up	1.54	1.91E-02	chr12(-):114493110-117232532	UCSC	expressed sequence	1181006O09Rik // B1H12 // BAH	AK007826	80795 // 380809 // 434609	0000076641 // ENSMUSG	11.07	11.70
---	up	1.54	2.63E-02	chr12(-):52756546-52760009	UCSC	---	---	AK042046	---	---	7.47	8.09
Adipor1	up	1.54	3.27E-02	chr1(+):136312031-13632925	UCSC	adiponectin receptor	2810031L11Rik	AK143680	72674	ENSMUSG000000026457	10.51	11.13
---	up	1.54	2.68E-03	chr10(-):119718296-119719255	UCSC	---	---	AK076735	---	---	7.21	7.83
F830004M19Rik	up	1.53	3.67E-02	chr8(-):89389399-89393422	UCSC	RIKEN cDNA F830004	---	AK089612	---	---	7.19	7.80
Klfh2	up	1.53	4.13E-02	chr8(-):67218472-67373822	UCSC	kelch-like 2, Mayven	6030041N21Rik // ABP-KELCH	AK220570	77113	ENSMUSG000000031605	7.26	7.87
Fhl1	up	1.53	1.71E-02	chr7(+):52713315-52715214	UCSC	ferritin light chain 1	Flt // L-ferritin	AK089847	14325	ENSMUSG000000050708	9.70	10.31
---	up	1.53	1.20E-02	chr6(+):124915638-124918080	UCSC	---	---	AK158836	---	---	6.31	6.92
---	up	1.53	4.65E-02	chr4(+):149947626-149948645	UCSC	---	---	AK077776	---	---	8.61	9.22
---	up	1.53	1.51E-02	chr4(+):132715449-132717930	UCSC	---	---	AK038218	---	---	8.11	8.72
Il6ra	up	1.53	4.38E-02	chr3(-):88537959-89717119	UCSC	interleukin 6 receptor	CD126 // IL-6R // IL-6receptoralpha	X51976	16194	ENSMUSG000000027947	9.88	10.50
Cox4i2	up	1.53	2.12E-02	chr2(+):152579909-152590773	UCSC	cytochrome c oxidase	Cox4b // CoxIV-2	AF271382	84682	ENSMUSG00000009876	7.79	8.41
---	up	1.53	1.41E-02	chr2(+):131318142-131319023	UCSC	---	---	AK086876	---	---	8.62	9.24
Il1f6	up	1.53	2.13E-02	chr2(+):24070937-24081221	UCSC	interleukin 1 family, member 6	IL1 // Fil1epsilon // IL-1H1	AK004061	54448	ENSMUSG000000026984	7.07	7.68
---	up	1.53	4.62E-02	chr18(-):10164047-10166553	UCSC	---	---	AK034190	---	---	8.10	8.71
Nkfbiz	up	1.53	6.20E-03	chr16(-):55811488-55839012	UCSC	nuclear factor of kappa-light-chain	Mail	AB020974	80859	ENSMUSG000000035356	10.15	10.76
---	up	1.53	2.31E-02	chr16(+):93532631-93534278	UCSC	---	---	AK133433	---	---	7.54	8.15
9530001J02Rik	up	1.53	1.08E-02	chr15(+):77665619-77667263	UCSC	RIKEN cDNA 9530001	---	AK091710	---	---	8.31	8.96
---	up	1.53	9.27E-03	chr15(+):6556394-6557469	UCSC	---	---	AK079993	---	---	8.35	8.96
---	up	1.53	1.28E-02	chr13(-):97955748-97958492	UCSC	---	---	AK138569	---	---	7.42	8.03
Syne2	up	1.53	1.13E-02	chr12(+):77132601-77211887	UCSC	synaptic nuclear envelope	6820443O08Rik // D12Erat777e	BC076568	319565	ENSMUSG000000063450	7.71	8.32
Tmc6	up	1.53	4.01E-02	chr1(-):117627300-117641954	UCSC	transmembrane channel related	D11Erd204e // EVER1	AK090179	217353	ENSMUSG000000025572	9.74	10.36
Znrf3	up	1.53	3.10E-02	chr11(-):5178605-5281744	UCSC	zinc and ring finger 3	LOC382477	BC151083	407821	ENSMUSG000000041961	8.44	9.06
---	up	1.53	7.30E-03	chr11(+):77860487-77861858	UCSC	---	---	AK143021	---	---	7.58	8.20
Kcnq1ot1	up	1.52	3.72E-03	chr7(-):150485092-150486286	UCSC	KCNQ1 overlapping transcript	Kvltq1-as // Lit1	AK135351	---	---	6.30	6.90
---	up	1.52	5.48E-03	chr7(-):135552482-135554507	UCSC	---	---	AK079512	---	---	6.55	7.15
Cln3	up	1.52	3.14E-02	chr7(-):133714721-133729332	UCSC	ceroid lipofuscinosis, battenin	---	AK134036	12752	ENSMUSG000000030720	9.34	9.95
Cyp2s1	up	1.52	3.46E-02	chr7(-):26587490-26601933	UCSC	cytochrome P450, family 2	1200011C15Rik	AK162947	74134	ENSMUSG000000040703	7.67	8.28
Dmpk	up	1.52	1.37E-02	chr7(+):1968219-19679168	UCSC	dystrophia myotonica	DM // Dm15	BC036615	13400	ENSMUSG000000030409	7.67	8.27
---	up	1.52	3.42E-02	chr6(-):3283194-3296071	UCSC	---	---	AK035387	---	---	8.69	9.30
---	up	1.52	3.91E-02	chr6(+):120650428-120655206	UCSC	---	---	AK143075	---	---	6.14	6.75
Tpcn1	up	1.52	2.28E-03	chr5(-):120984167-121038683	UCSC	two pore channel 1	5730403B01Rik	AK148129	252972	ENSMUSG000000032741	8.60	9.21
Klf3	up	1.52	2.62E-03	chr5(+):65194627-65221368	UCSC	Kruppel-like factor 3	89930027G08Rik // BKLf // Tef-2	AK157576	16599	ENSMUSG000000029178	10.04	10.65
Gm568	up	1.52	1.44E-03	chr4(-):47021191-47023653	UCSC	predicted gene 568	LOC230143	BC028561	---	---	7.78	8.38
Sirpa	up	1.52	4.08E-02	chr2(+):129418573-129457959	UCSC	signal-regulatory protein	Bit // CD172a // P84 // Ptpns1 // S	AK159617	19261	ENSMUSG000000037902	11.75	12.35
Snap23	up	1.52	2.05E-02	chr2(+):120393406-120426458	UCSC	synaptosomal-associated	SNAP-23 // Snd1 // Syndet	AK091962	20619	ENSMUSG000000027287	10.21	10.81
Lypdbb	up	1.52	2.79E-02	chr2(+):49643206-49804366	UCSC	LY6/PLAUR domain containing	2310010M24Rik	AK009282	71897	ENSMUSG000000026765	6.65	7.25
Pnma1	up	1.52	3.37E-02	chr12(+):85487082-85489442	UCSC	paraneoplastic antigen	5730402C15Rik	AK136933	70481	ENSMUSG000000054383	7.09	7.70
Pstpip1	up	1.51	2.09E-02	chr9(+):55937779-55976683	UCSC	proline-serine-threonine phosphatase	CD2BP1 // dsf-2	AK088150	19200	ENSMUSG000000032322	9.31	9.91
Rarbip10	up	1.51	1.22E-02	chr6(+):10829210-108361251	UCSC	RAN binding protein	1443247M03Rik	AK337514	74334	ENSMUSG000000037415	9.08	9.67
Hgsnat	up	1.51	4.79E-02	chr8(+):27054926-27087220	UCSC	heparan-alpha-glucosaminyltransferase	9430010M12Rik // D8Erat354e	AK035264	52120	ENSMUSG000000032260	8.11	8.71
Ypel3	up	1.51	5.28E-03	chr7(+):133920488-133924023	UCSC	yyype-like 3 (Drosophila)	0610043B10Rik // 1190001G19R	AK003371	66090	ENSMUSG000000042755	10.25	10.85
Sam9l	up	1.51	2.90E-02	chr6(-):322260-3349573	UCSC	sterile alpha motif domain	ESTM25	BC079894	209086	ENSMUSG000000047673	9.13	9.73
Tatbr3	up	1.51	4.8									

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change ≥ 1.5; P-Value ≤ 0.05); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Cxcl3	up	1.50	4.95E-02	chr5(+):151178302-151178911	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK051303	---	---	7.35	7.93
---	up	1.50	2.55E-02	chr5(+):91215125-91217116	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK143069	330122	ENSMUSG0000029379	6.21	6.79
---	up	1.50	1.47E-02	chr5(+):32439289-32442017	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK143311	---	---	8.76	9.34
---	up	1.50	4.85E-02	chr1(-):93848570-93850207	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK143069	---	---	6.84	7.43
Ly6c2	up	1.50	2.54E-02	chr15(+):74938988-74942243	<a href="#">UCSC</a>	lymphocyte antigen 6	---	D88232	100041546	ENSMUSG0000022584	12.78	13.37
1700112E06Rik	up	1.50	2.99E-02	chr14(+):23396948-23418490	<a href="#">UCSC</a>	RIKEN cDNA 1700112	2700009F18Rik	AK012226	76633	ENSMUSG00000063458	7.31	7.90
---	up	1.50	1.10E-03	chr11(+):85533350-85534384	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK086099	---	---	6.31	6.90
Nfic	up	1.50	4.32E-02	chr10(-):80858936-80893883	<a href="#">UCSC</a>	nuclear factor I/C	1110019L22Rik // 1500041O16R	AK147496	18029	ENSMUSG00000079936	8.31	8.90
S1pr3	down	2.99	2.34E-02	chr13(+):51504130-51518166	<a href="#">UCSC</a>	sphingosine 1-phosph	Edg3 // LPb3 // S1P3	AK084944	13610	ENSMUSG00000067586	11.04	9.46
---	down	2.81	4.62E-02	chr17(+):89045477-89047197	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK078720	---	---	8.43	6.94
Hs3st1	down	2.74	2.03E-02	chr5(-):40005174-40146714	<a href="#">UCSC</a>	heparan sulfate (gluc3-O-S	T // D5Wsu110e	AF019385	15476	ENSMUSG00000051022	9.27	7.82
Gpr171	down	2.73	2.29E-02	chr3(-):58895802-58905744	<a href="#">UCSC</a>	G protein-coupled rec	F730001G15Rik // H963	AK154964	229323	ENSMUSG00000050075	10.94	9.50
Zc3h12c	down	2.89	4.27E-02	chr9(-):51923490-51934770	<a href="#">UCSC</a>	zinc finger CCH type	C230027N18Rik	AK220416	244871	ENSMUSG00000035164	9.93	8.50
Rab30	down	2.59	4.56E-02	chr7(+):99890216-99898626	<a href="#">UCSC</a>	RAB30, member RAS	S033421K01Rik	AK142206	75985	ENSMUSG00000030643	9.90	8.53
---	down	2.43	2.04E-03	chr10(+):32359637-32359292	<a href="#">UCSC</a>	chemokine (C-C motif)	Cmkbr6	AK093986	---	---	6.46	5.18
Ccr6	down	2.37	2.40E-02	chr17(+):8429077-8449992	<a href="#">UCSC</a>	chemokine (C-C motif)	chemokine (C-C motif)	AK016031	---	---	9.11	7.86
Plkb	down	2.33	4.00E-02	chr10(+):57351781-57460918	<a href="#">UCSC</a>	protein kinase inhibi	PKIbeta // Prkac2	AK156950	18768	ENSMUSG00000019876	9.01	7.79
Serpinb6b	down	2.32	3.18E-03	chr13(+):33057312-33070931	<a href="#">UCSC</a>	serine (or cysteine) pe	NK13 // ovalbumin // Spi12	AK078753	25078	ENSMUSG00000042942	9.39	8.18
2310074N15Rik	down	2.30	1.49E-02	chr5(+):23953724-23954302	<a href="#">UCSC</a>	RIKEN cDNA 2310074	---	AK010155	---	---	7.55	6.35
Olfr313	down	2.30	2.33E-02	chr11(+):58630430-58631503	<a href="#">UCSC</a>	olfactory receptor 313	GA_x6K02T2NKP-590035-589	BC120742	265829	ENSMUSG00000070438	7.17	5.97
5730405O12Rik	down	2.25	4.76E-02	chr11(-):5655010-5658302	<a href="#">UCSC</a>	RIKEN cDNA 5730405	---	AK053288	---	---	7.09	5.92
9530001D17Rik	down	2.23	1.06E-03	chr13(+):54843313-54843693	<a href="#">UCSC</a>	RIKEN cDNA 9530001	---	AK020532	---	---	6.87	5.71
---	down	2.20	3.54E-02	chr14(-):121909725-121918335	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK029385	---	---	8.51	7.37
---	down	2.19	9.94E-03	chr18(-):72333717-72334936	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK043078	---	---	6.92	5.79
Icos	down	2.16	1.85E-02	chr1(+):61034761-61057188	<a href="#">UCSC</a>	inducible T-cell co-str	---	AK030827	54167	ENSMUSG00000026009	10.89	9.79
Cxcr5	down	2.13	4.40E-02	chr9(+):44319871-44369961	<a href="#">UCSC</a>	chemokine (C-X-C motif)	Blr1 // CXCR-5 // Gprc6	AK133064	12145	ENSMUSG00000047880	10.77	9.68
---	down	2.13	8.30E-04	chr3(+):58902452-58903248	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK155223	---	---	7.51	6.42
Cd83	down	2.12	3.42E-02	chr13(+):43880511-43898501	<a href="#">UCSC</a>	CD83 antigen	---	AK075888	12522	ENSMUSG00000015396	10.66	9.58
Olfr313	down	2.11	1.81E-02	chr7(-):109861969-109862925	<a href="#">UCSC</a>	olfactory receptor 33	GA_x6K02T2PB9J-5431102-543	BC104111	18332	ENSMUSG00000068273	6.41	5.33
Cabcl1	down	2.10	1.71E-02	chr1(-):182095369-182126099	<a href="#">UCSC</a>	chaperone, ABC1 acti	4632432J16Rik // mKIAA0451	AK014605	67426	ENSMUSG00000026489	9.82	8.75
Myc	down	2.08	3.89E-02	chr15(+):61816913-61821907	<a href="#">UCSC</a>	myelocytomatosis onc	bHLHe39 // c-myc // Myc2 // Nlar	AK145084	17869	ENSMUSG00000022346	11.87	10.81
Hsph1	down	2.06	3.80E-02	chr5(-):150416862-150438871	<a href="#">UCSC</a>	heat shock 105kDa/1	Hsp-E71 // Hsp105 // HSP110	AK083179	15505	ENSMUSG00000029657	9.38	8.33
Olfr1166	down	2.05	2.34E-02	chr2(-):87963521-87965150	<a href="#">UCSC</a>	olfactory receptor 116	GA_x6K02T2Q125-49616865-45	BC051250	258644	ENSMUSG00000075135	6.50	5.46
Rln3	down	2.04	4.58E-02	chr8(-):86566966-86568878	<a href="#">UCSC</a>	relaxin 3	M3	AB076565	212108	ENSMUSG00000045232	9.56	8.53
---	down	2.02	1.85E-02	chr13(+):118708308-118710328	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK139282	---	---	6.67	5.65
---	down	1.99	3.40E-02	chr8(-):61200466-61204149	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK148743	---	---	7.35	6.36
---	down	1.97	2.86E-02	chr6(+):105994916-105997435	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK141062	---	---	6.75	5.77
Olfr1248	down	1.97	4.99E-02	chr2(+):89457325-89458405	<a href="#">UCSC</a>	olfactory receptor 124	GA_x6K02T2Q125-51059648-5	BC150718	258787	ENSMUSG00000075080	6.68	5.71
Bcar3	down	1.96	3.94E-02	chr3(+):121957052-12233098	<a href="#">UCSC</a>	breast cancer anti-est	AND-34	AK015763	29815	ENSMUSG00000028121	10.17	9.20
5730408A14Rik	down	1.95	1.84E-02	chr1(-):177308984-177310808	<a href="#">UCSC</a>	RIKEN cDNA 5730408	---	AK017519	---	---	6.51	5.54
4833403J16Rik	down	1.94	4.82E-02	chr6(+):48705337-48706367	<a href="#">UCSC</a>	RIKEN cDNA 4833403	---	AK014653	---	---	8.70	7.74
Cxcl13	down	1.93	2.49E-02	chr5(+):96385943-96390087	<a href="#">UCSC</a>	chemokine (C-X-C motif)	ANGIE2 // BCA-1 // BLC // Scyb1	AK160241	55985	ENSMUSG00000023078	7.37	6.42
4930535E02Rik	down	1.93	1.66E-03	chr3(-):68563831-68565357	<a href="#">UCSC</a>	RIKEN cDNA 4930535	---	AK015977	---	---	7.80	6.85
Pxdn	down	1.92	5.58E-03	chr12(+):30622473-30702522	<a href="#">UCSC</a>	peroxidase homolog	2310075M15Rik // mKIAA0230	AK122223	69675	ENSMUSG00000020674	7.70	6.75
Maf	down	1.91	1.88E-02	chr8(-):118225335-118228975	<a href="#">UCSC</a>	avian musculoaponeu	2810401A20Rik // A230108G15F	AK033026	17132	ENSMUSG00000055435	7.49	6.56
---	down	1.90	2.59E-02	chrX(-):23952318-23954569	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK157457	---	---	6.78	5.86
3110037C07Rik	down	1.90	3.36E-02	chr3(+):19211657-19213735	<a href="#">UCSC</a>	RIKEN cDNA 3110037	---	AK014131	---	---	7.75	6.82
Tnfrsf9	down	1.89	2.83E-02	chr4(+):150294297-150320204	<a href="#">UCSC</a>	tumor necrosis factor	4-1BB // A930040I11Rik // Cdl3	AK019885	21942	ENSMUSG00000028966	7.92	7.40
Btla	down	1.88	3.87E-02	chr1(+):45224447-452253003	<a href="#">UCSC</a>	B and T lymphocyte a	---	AK041334	208154	ENSMUSG00000052013	8.90	8.99
Nop16	down	1.88	5.84E-04	chr13(+):54685552-54691436	<a href="#">UCSC</a>	NOP16 nucleolar prot	D13Wsu177e	AK013251	28126	ENSMUSG00000025699	10.35	9.43
Angptl2	down	1.87	4.57E-02	chr2(+):33071480-33103234	<a href="#">UCSC</a>	angiopoietin-like 2	Arp2	AK155464	26360	ENSMUSG00000004105	8.98	8.09
Actg2	down	1.86	3.74E-02	chr6(-):83462904-83486226	<a href="#">UCSC</a>	actin, gamma 2, smoo	Act-4 // Act4 // ACTA3 // SMGA	BC020242	11468	ENSMUSG00000059430	6.85	5.95
---	down	1.86	3.66E-03	chr16(-):46154902-46155020	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK188373	---	---	11.65	10.75
Rhox4g	down	1.85	4.98E-02	chrX(-):35061008-35065834	<a href="#">UCSC</a>	reproductive homeob	Rhox4.7	AJ972671	664608	ENSMUSG00000079628	8.48	7.59
4930504C09Rik	down	1.85	2.08E-02	chr15(+):69100961-69105150	<a href="#">UCSC</a>	RIKEN cDNA 4930504	---	AK015695	---	---	7.83	6.94
Irf5	down	1.82	4.25E-02	chr4(+):88481429-88481998	<a href="#">UCSC</a>	interferon alpha 5	Irf5	BC120911	15968	ENSMUSG00000076440	7.12	6.25
3110031N09Rik	down	1.81	4.92E-02	chr5(-):69947796-69948121	<a href="#">UCSC</a>	RIKEN cDNA 3110031	---	AK014107	---	---	7.68	6.82
Tmem97	down	1.81	3.88E-02	chr11(-):78355320-78364249	<a href="#">UCSC</a>	transmembrane prote	1810014L12Rik // D11Bhm182e	AK155107	69071	ENSMUSG00000037278	9.15	8.29
Fam43a	down	1.80	1.06E-02	chr16(+):30601567-30602810	<a href="#">UCSC</a>	family with sequence	---	BC026202	224093	ENSMUSG00000046546	9.44	8.59
---	down	1.80	1.09E-02	chr13(+):52182876-52192038	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK029687	---	---	7.93	7.08
Gm10911	down	1.79	4.86E-02	chr7(-):96536854-96539833	<a href="#">UCSC</a>	predicted gene 10911	---	AK085394	---	---	8.48	7.64
---	down	1.79	1.55E-02	chr10(+):36461152-36463155	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK082216	---	---	6.24	5.40
---	down	1.79	2.76E-02	chr4(-):81191980-81192790	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK047382	---	---	7.70	6.86
---	down	1.79	1.29E-02	chr18(-):46395138-46397350	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK131923	---	---	8.60	7.76
Hsp1d1	down	1.79	4.22E-03	chr1(-):55134679-55144728	<a href="#">UCSC</a>	heat shock protein 1	(Hsp60	AK146831	15510	ENSMUSG00000025980	10.42	9.58
Rlip2	down	1.78	2.36E-02	chr5(-):124913276-124928377	<a href="#">UCSC</a>	Rab interacting lysoso	MGC:7036	AK133760	80291	ENSMUSG00000029401	10.30	9.47
Olfr987	down	1.78	3.18E-02	chr2(-):85171054-85172128	<a href="#">UCSC</a>	olfactory receptor 987	GA_x6K02T2Q125-46808500-46	BC147166	257951	ENSMUSG00000075223	8.59	7.76
Gm16489	down	1.78	3.32E-02	chr17(+):51989564-51991838	<a href="#">UCSC</a>	predicted gene 16489	---	BC026389	---	---	6.80	5.97
Frla	down	1.76	1.07E-02	chr1(-):172847706-172857714	<a href="#">UCSC</a>	Fc receptor-like A	FCRL1 // Fcrr // FREB // Freb1 //	AK172370	98752	ENSMUSG00000038421	10.64	9.82
---	down	1.76	2.76E-02	chr3(+):8923932-8929974	<a href="#">UCSC</a>	chemokine (C-X-C motif)	---	AK219344	---	---	7.05	6.23
Zoch18	down	1.75	2.89E-02	chrX(+):133527715-133533011								

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change  $\geq 1.5$ ; P-Value  $\leq 0.05$ ); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Tsc2d21	down	1.71	3.99E-02	chr14(+):7681478-76807569	UCSC	TSC22 domain family	Egr5 // Tgfb14 // TSC-22	AK173322	21807	ENSMUSG00000022010	8.59	7.81
---	down	1.70	2.63E-02	chr10(+):116343825-116344080	UCSC	---	---	AK216866	---	---	6.36	5.60
Olfrl143	down	1.70	6.84E-03	chr2(+):87642536-87643734	UCSC	olfactory receptor 114	GA_x6K02T2Q125-49303473-49	BC140202	265290	ENSMUSG00000069815	6.66	5.89
Apex1	down	1.70	2.42E-02	chr14(+):51544653-51546813	UCSC	apurinic/apyrimidinic	HAF1 // Ref-1	BC052401	11792	ENSMUSG00000035960	10.04	9.27
Raf2	down	1.69	1.22E-02	chr10(+):38936828-38965844	UCSC	ribosome production	Z31047Kc21Rik // Bxdct1	672293	---	ENSMUSG000000385110	8.75	8.00
Cd3eap	down	1.69	2.83E-02	chr7(+):19942217-19944805	UCSC	CD3E antigen, epsilon	2610103M17Rik // Ase1 // PAF4	BC071199	70333	ENSMUSG000000047649	8.57	7.81
---	down	1.69	3.33E-02	chr7(+):126726521-126727849	UCSC	---	---	---	---	---	6.08	5.32
Ahcy	down	1.69	7.64E-03	chr2(-):15488050-154900193	UCSC	S-adenosylhomocyste	CuBP // SAHH	BC086781	269378	ENSMUSG00000027597	10.16	9.40
Set	down	1.69	2.25E-02	chr2(+):29917372-29928089	UCSC	SET translocation	2610030F17Rik // 5730420M11F	AK172327	56086	ENSMUSG000000054766	9.40	8.64
---	down	1.69	3.11E-02	chr16(+):72159192-72160483	UCSC	---	---	AK081909	---	---	6.98	6.22
Bdh1	down	1.69	6.12E-03	chr16(+):31422380-31458986	UCSC	3-hydroxybutyrate de	2310032J20Rik // Bdh	BC043683	71911	ENSMUSG00000046598	8.51	7.75
---	down	1.69	4.89E-02	chr15(+):100693467-100695147	UCSC	---	---	AK084403	---	---	6.30	5.54
Hoxa9	down	1.68	3.76E-04	chr6(-):52173099-52177369	UCSC	homeobox A9	D6a9 // Hox-1.7	AB005457	15405	ENSMUSG00000038227	7.62	6.88
Unc119b	down	1.68	4.69E-02	chr5(-):115572572-115584985	UCSC	unc-119 homolog B (C	---	AK082614	106840	ENSMUSG00000046562	9.01	8.26
---	down	1.68	1.97E-02	chr15(+):36067976-36070141	UCSC	---	---	AK158239	---	---	7.07	6.32
Frmf7	down	1.67	5.00E-02	chrX(+):48245822-48248799	UCSC	FERM domain contain	EG666849 // LOC385354	AK032347	---	ENSMUSG00000036131	6.60	5.86
---	down	1.66	3.30E-02	chr8(-):17151623-17155670	UCSC	---	---	AK148894	---	---	9.54	8.81
Ruvb1	down	1.66	1.69E-02	chr6(+):88415424-88447566	UCSC	RuvB-like protein 1	2510009G06Rik // Pontin52 // Tr	AK146374	56505	ENSMUSG00000030079	9.58	8.85
Cct6a	down	1.66	2.61E-02	chr5(+):130297889-130300376	UCSC	chaperonin containing	Cct6 // Cctz-1 // chaperoninonta	AK200859	12466	ENSMUSG00000029447	10.97	10.25
Pcgl6	down	1.66	2.09E-02	chr19(-):47108109-47125398	UCSC	polycomb group ring	4493340A11Rik // MBLR // Mel1	AK155067	71041	ENSMUSG000000205050	9.95	9.01
---	down	1.66	2.40E-02	chr17(+):75643757-75645635	UCSC	---	---	AK036790	---	---	6.40	5.67
B3gnt5	down	1.66	1.33E-02	chr16(+):19760299-19772548	UCSC	UDP-GlcNAc:betaGal	---	AK083839	108105	ENSMUSG00000022686	10.24	9.50
Dkc1	down	1.65	8.95E-04	chrX(+):72341445-72355114	UCSC	dyskeratosis congenit	---	AK167973	245474	ENSMUSG000000031403	9.38	8.66
---	down	1.65	2.79E-02	chr9(+):119768969-119770373	UCSC	---	---	AK145378	---	---	7.15	6.43
---	down	1.65	4.00E-02	chr6(+):11637151-11638324	UCSC	---	---	AK086930	---	---	7.14	6.42
Snrp2	down	1.65	4.01E-02	chr7(+):19735187-19738076	UCSC	small nuclear ribonuc	1810009A06Rik // SMD2	BC043014	107686	ENSMUSG00000040824	10.07	9.34
1700047O18Rik	down	1.65	2.1E-02	chr7(+):13366209-13366951	UCSC	RIKEN cDNA 1700047	---	AK006720	---	---	7.28	6.55
Pol4	down	1.65	1.36E-02	chr6(+):82571851-82602871	UCSC	polymerase (DNA-dir	2400007P05Rik // 5830430F06R	AK145365	66979	ENSMUSG00000030042	9.00	8.28
Cd38	down	1.65	1.27E-02	chr5(+):44280048-44303613	UCSC	CD38 antigen	Cd38-rs1	AK038439	12494	ENSMUSG00000029084	11.86	11.14
Ccdc112	down	1.65	1.03E-02	chr18(-):46441819-46442848	UCSC	coiled-coil domain cor	8430438M01Rik	AK018477	240261	ENSMUSG00000079668	6.33	5.60
---	down	1.65	2.56E-02	chr14(-):40106542-40110301	UCSC	---	---	AK049684	---	---	6.68	5.96
Mcm5	down	1.64	2.31E-02	chr5(+):77633427-77652004	UCSC	minichromosome main	Cdc46 // mCD46 // Mcm5d	AK033196	17218	ENSMUSG00000005410	10.78	10.07
Fam185a	down	1.64	1.98E-02	chr5(+):20930776-20987942	UCSC	family with sequence	---	AK030922	330050	ENSMUSG00000047221	7.98	7.27
A730015C16Rik	down	1.64	3.57E-02	chr4(-):108520004-108521224	UCSC	RIKEN cDNA A73001	---	AK042682	---	---	7.77	7.06
Tomn5	down	1.64	3.89E-02	chr4(-):45118087-45120981	UCSC	translocase of outer m	1110019J04Rik	AK003822	68512	ENSMUSG00000078713	10.06	9.35
Cct3	down	1.64	1.20E-02	chr3(+):88101044-88125688	UCSC	chaperonin containing	Cctg // Tcpl-rs3 // Tric-P5	AK146360	12462	ENSMUSG00000001416	10.01	9.29
Gm2447	down	1.64	3.91E-05	chr3(+):52536455-52580578	UCSC	predicted gene 2447	---	AK140707	---	---	8.99	7.38
Gdf5	down	1.64	2.22E-02	chr2(-):155672779-1556770791	UCSC	growth differentiation	fbp // bnp // cartilage-derivedmorp	AK259848	100039832	ENSMUSG00000038259	7.38	6.66
C030024C20Rik	down	1.64	2.20E-02	chr16(+):38533200-38533735	UCSC	RIKEN cDNA C03002	---	AK021101	---	---	7.10	6.38
---	down	1.64	2.01E-02	chr13(-):32792703-32794504	UCSC	---	---	AK033351	---	---	7.37	6.65
4930511J24Rik	down	1.64	2.54E-03	chr12(+):111149993-111151728	UCSC	RIKEN cDNA 493051	---	AK015759	---	---	7.20	6.48
Chordc1	down	1.63	4.23E-02	chr9(+):18096710-18119259	UCSC	cysteine and histidin	1110001O09Rik // Chp-1 // morg	AK132696	66917	ENSMUSG00000001774	9.86	9.16
Tas2r102	down	1.63	7.20E-04	chr6(+):132712148-132713202	UCSC	taste receptor, type 2	mGR02 // mt2r5 // STC9-7 // Ta	BC165964	387339	ENSMUSG00000056901	7.08	6.38
Gm10069	down	1.63	5.08E-03	chr6(+):12838873-128453298	UCSC	predicted gene 10069	---	BC091771	---	---	7.37	6.67
Ptprcap	down	1.63	8.20E-03	chr19(+):4156448-41567113	UCSC	protein tyrosine phosph	CD-45-AP // LSM-1	AK088334	19265	ENSMUSG00000045826	10.55	9.84
Zfp361	down	1.63	4.94E-02	chr12(-):81208747-81214001	UCSC	zinc finger protein 36	Brl1 // cMG1 // D530020L18Rik //	AK051035	12192	ENSMUSG00000021127	10.76	10.05
Tm61a	down	1.63	2.49E-02	chr12(+):112916344-112922113	UCSC	IRNA methyltransferase	E720458F09Rik	AK032824	328162	ENSMUSG00000060950	8.40	7.69
---	down	1.63	2.25E-02	chr12(+):7394768-7396438	UCSC	---	---	AK131455	---	---	6.55	5.85
Olfrl157	down	1.62	1.70E-02	chr4(+):43847693-43849386	UCSC	olfactory receptor 157	GA_x6K02T2N78b-16110014-16	BC137812	100040268	ENSMUSG000000059101	6.81	6.11
Psat1	down	1.62	2.01E-02	chr19(-):15979617-15999550	UCSC	phosphoserine aminot	D8rtd814e // EPIP // PSA	AK032487	107272	ENSMUSG00000024640	10.25	9.56
1700019N12Rik	down	1.62	1.62E-02	chr19(+):6996675-6997479	UCSC	RIKEN cDNA 170001	A430107B04Rik	AK020779	67077	ENSMUSG00000050623	6.70	6.01
Olfrl173	down	1.62	8.06E-03	chr16(-):58796575-58797738	UCSC	olfactory receptor 173	GA_x54KRFKPG5P-54960233-5	BC137837	259002	ENSMUSG00000049362	6.45	5.75
C1qbp	down	1.62	4.82E-02	chr11(-):70791309-70796518	UCSC	complement compone	D111Wsu182e // HAF1 // P32	AK010746	12261	ENSMUSG00000018446	10.02	9.32
4930588G05Rik	down	1.62	8.50E-03	chr10(-):104961096-104963416	UCSC	RIKEN cDNA 493058	---	AK019832	---	---	6.99	6.30
---	down	1.61	3.14E-02	chr8(-):120313239-120315411	UCSC	---	---	AK038009	---	---	7.05	6.36
Spr2k	down	1.61	1.30E-02	chr3(+):92236518-92237673	UCSC	small proline-rich prot	---	BC116688	20765	ENSMUSG00000054215	6.24	5.55
Ppid	down	1.61	1.29E-02	chr3(+):79395262-79407571	UCSC	peptidyl prolyl isomera	4930564J03Rik // cyclophilin40 //	AK151091	67738	ENSMUSG00000027804	7.63	6.94
---	down	1.61	1.83E-02	chr14(-):122335859-122338388	UCSC	---	---	AK154231	---	---	8.57	7.89
Gpr18	down	1.61	3.94E-02	chr14(-):122310475-122315069	UCSC	G protein-coupled rec	---	AK157029	110168	ENSMUSG00000050350	10.59	9.89
---	down	1.61	3.49E-02	chr11(+):32590106-32591943	UCSC	---	---	AK084253	---	---	7.07	6.38
---	down	1.60	9.98E-04	chr9(-):29503663-29505598	UCSC	---	---	AK159021	---	---	7.16	6.48
Gadd45gip1	down	1.60	7.10E-03	chr8(+):87356175-87359381	UCSC	growth arrest and DN	2310040G17Rik // Cri1	AK028227	102060	ENSMUSG000000033751	9.42	8.74
Cdca7	down	1.60	3.60E-02	chr2(+):72314265-72324947	UCSC	cell division cycle ass	2310021G01Rik // JPO1	AK028671	66953	ENSMUSG00000055612	8.14	7.46
Hspe1	down	1.60	2.53E-02	chr1(+):55145161-55148150	UCSC	heat shock protein 1	(Hsp10 // mitochondrialchaperonin	AK088121	15528	ENSMUSG00000073676	9.83	9.14
Prrm5	down	1.60	1.55E-02	chr14(-):55126016-55136308	UCSC	protein arginine N-me	Jak-bindingprotein1 // Jbp1 // Skl	AK076346	27374	ENSMUSG00000023110	10.41	9.73
---	down	1.60	4.17E-02	chr14(+):124366485-124368273	UCSC	---	---	AK089847	---	---	7.30	6.62
2310044G17Rik	down	1.60	3.14E-02	chr12(+):88287992-88306312	UCSC	RIKEN cDNA 231004	mkIAA1737	AK122546	217732	ENSMUSG00000034157	9.44	8.76
Nob1	down	1.59	5.60E-03	chr8(-):109936389-109948953	UCSC	NIN1/RPN12 binding	170002109Rik // ART-4 // Nob1	BC103793	67619	ENSMUSG00000003848	9.85	9.18
---	down	1.59	1.56E-02	chr5(-):65921346-65922819	UCSC	---	---	AK140861	---	---	6.73	6.06
Cct6a	down	1.59	3.05E-02	chr5(+):130297889-130297434	UCSC	chaperonin containing	Cct6 // Cctz-1 // chaperoninonta	AK088705	12466	ENSMUSG00000029447	9.40	8.73
Fam92a	down	1.59	2.30E-02	chr4(-):12080870-12098145	UCSC	family with sequence	E720467C03Rik	68099	ENSMUSG00000028218	7.90	7.23	
C130079B09Rik	down	1.59	3.87E-02	chr15(+):73231193-73233604	UCSC	RIKEN cDNA C13007	---	AK048576	---	---	6.96	6.29
---	down	1.59	2.01E-02	chr11(-):94481753-94483250								

Supplementary Table S1. List of the 997 Regulated Genes of AML mice treated with ABT-737(Fold-change ≥ 1.5; P-Value ≤ 0.05); 764 upregulated and 233 downregulated genes.

GEO Accession No.: GSE48601

Gene Symbol	Regulation	Fold-Change	P-Value	Gene Coordinates (hg19)	UCSC Link	Gene Name	Aliases and Synonyms	Representative Transcript ID	Entrez Gene ID	Ensembl ID	Intensity NRAS-BCL2	Intensity NRAS-BCL2 ABT-737
Olfr1414	down	1.57	2.08E-03	chr1(-):94407625-94408640	<a href="#">UCSC</a>	olfactory receptor 141	GA_x6K02T2RCC-81245243-8	BC120830	259041	ENSMUSG00000042849	6.91	6.26
Dis3	down	1.57	3.85E-02	chr14(+):99475853-99498985	<a href="#">UCSC</a>	DIS3 mitotic control h	2810028N01Rik	AK038313	72662	ENSMUSG00000033166	9.29	8.64
Olfr429	down	1.57	1.58E-02	chr1(+):176019169-176020111	<a href="#">UCSC</a>	olfactory receptor 429	GA_x6K02T2P20D-21090094-2	BC127973	258717	ENSMUSG00000049528	7.30	6.65
---	down	1.57	1.23E-02	chr10(-):91618596-91621875	<a href="#">UCSC</a>	---	---	AK051318	---	---	7.62	6.97
---	down	1.56	1.17E-02	chr7(+):22558890-22560240	<a href="#">UCSC</a>	---	---	AK157641	---	---	7.59	6.95
Ctps	down	1.56	4.30E-02	chr4(-):120212471-120242882	<a href="#">UCSC</a>	cytidine 5'-triphosphat	---	---	51797	ENSMUSG00000028633	8.30	7.66
---	down	1.56	1.67E-02	chr3(-):20118504-20119207	<a href="#">UCSC</a>	---	---	AK136713	---	---	6.61	5.97
Rex4	down	1.56	2.62E-02	chr2(-):26809086-26819838	<a href="#">UCSC</a>	REX4, RNA exonucle	XPMC2H	BC060147	227656	ENSMUSG00000052406	9.45	8.81
---	down	1.56	5.82E-03	chr17(-):93989959-93994457	<a href="#">UCSC</a>	---	---	AK156635	---	---	6.98	6.34
Hmg1n	down	1.56	2.37E-02	chr16(-):96342225-96349337	<a href="#">UCSC</a>	high mobility group nu	HMG-14 // Hmg14	AK010763	15312	ENSMUSG00000040681	9.47	8.82
---	down	1.56	3.90E-02	chr12(-):40778044-40781730	<a href="#">UCSC</a>	---	---	AK143806	---	---	6.19	5.55
Cenpw	down	1.55	1.54E-03	chr10(-):29914390-29920343	<a href="#">UCSC</a>	centromere protein W	2610036L11Rik	BC050071	66311	ENSMUSG00000075266	7.20	6.58
Slc25a4	down	1.55	2.27E-02	chr8(-):47292528-47296387	<a href="#">UCSC</a>	solute carrier family 25	adenine nucleotidetranslocase-1	AK078077	11739	ENSMUSG00000031633	10.10	9.47
---	down	1.55	2.91E-02	chr6(-):12072441-12075162	<a href="#">UCSC</a>	---	---	AK037624	---	---	6.60	5.96
Rpl9	down	1.55	1.06E-02	chr5(-):65773692-65782810	<a href="#">UCSC</a>	ribosomal protein L9	---	BC013185	---	---	9.88	9.25
Smyd2	down	1.55	2.82E-02	chr1(-):191704373-191746172	<a href="#">UCSC</a>	SET and MYND doma	1110020E07Rik // KMT3C // Zmy	AK150857	228830	ENSMUSG00000026603	8.94	8.31
Uck2	down	1.55	2.95E-02	chr1(-):169156219-169215264	<a href="#">UCSC</a>	uridine-cytidine kinase	TSAG03 // Umpk	AF236636	80914	ENSMUSG00000026558	11.31	10.67
Olfr102	down	1.55	4.48E-02	chr17(-):37450356-37451382	<a href="#">UCSC</a>	olfactory receptor 102	GA_x6K02T2PSCP-1775063-17	BC139115	258218	ENSMUSG00000049234	7.09	6.46
---	down	1.54	1.86E-02	chrM(+):9459-9804	<a href="#">UCSC</a>	---	---	AK139029	---	---	9.03	8.41
---	down	1.54	1.86E-02	chr9(-):9224948-9226139	<a href="#">UCSC</a>	---	---	AK087344	---	---	6.95	6.33
Nop2	down	1.54	2.50E-02	chr6(+):125081927-125094770	<a href="#">UCSC</a>	NOP2 nucleolar prote	120kDa // Nol1	AK079914	110109	ENSMUSG00000038279	10.02	8.40
Ly9	down	1.54	1.92E-03	chr1(-):173518763-173537541	<a href="#">UCSC</a>	lymphocyte antigen 9	CD229 // Lgp100 // SLAMF3 // T	AK088815	17085	ENSMUSG00000040707	9.50	9.90
Stip1	down	1.54	1.12E-02	chr19(-):7095192-7114458	<a href="#">UCSC</a>	stress-induced phosph	Hop // Hsp70/Hsp90organizingpr	AK088494	20867	ENSMUSG00000024966	10.83	10.21
49305153Rik	down	1.54	1.76E-02	chr17(-):21937511-21938807	<a href="#">UCSC</a>	RIKEN cDNA 493051-	---	AK015795	75098	ENSMUSG00000049202	8.01	7.39
493042820Rik	down	1.54	4.89E-02	chr16(-):689796396-69000627	<a href="#">UCSC</a>	RIKEN cDNA 493042-	---	AK019586	---	---	7.16	6.54
Yars2	down	1.54	3.40E-02	chr18(+):163033057-16303725	<a href="#">UCSC</a>	tyrosyl-tRNA synthet	2210023C10Rik	AK138504	70120	ENSMUSG00000022792	9.16	8.54
1110067D22Rik	down	1.54	1.10E-02	chr11(+):20723358-20731239	<a href="#">UCSC</a>	RIKEN cDNA 111006-	---	AK165650	21651	ENSMUSG00000042363	9.26	8.64
Sms	down	1.53	4.72E-02	chrX(-):153881785-153930217	<a href="#">UCSC</a>	spermine synthase	SpmST	AK166665	20603	ENSMUSG000000071708	9.30	8.69
---	down	1.53	2.98E-02	chrX(-):140317303-140319727	<a href="#">UCSC</a>	---	---	AK045457	---	---	7.19	6.58
Fam60a	down	1.53	1.25E-02	chr6(-):148869588-148894966	<a href="#">UCSC</a>	family with sequence	Ptpcs1 // Tera	AK145384	56306	ENSMUSG00000039885	10.28	9.67
Mbd4	down	1.53	4.08E-02	chr6(-):115791217-115803383	<a href="#">UCSC</a>	methyl-CpG binding d	Med1	AK161005	17193	ENSMUSG00000030322	8.76	8.15
B630006K09Rik	down	1.53	4.89E-02	chr6(+):41517478-41520684	<a href="#">UCSC</a>	RIKEN cDNA B63000-	---	AK037902	---	---	6.77	6.16
Mcm7	down	1.53	4.95E-02	chr5(-):138605817-138613651	<a href="#">UCSC</a>	minichromosome mai	mCDC47 // Mcmd7	AK132748	17220	ENSMUSG00000029730	10.45	9.84
Gar1	down	1.53	2.52E-02	chr3(-):129527831-129534239	<a href="#">UCSC</a>	GAR1 ribonucleoprote	C430047J18Rik // GAR1 // Nola1	BC048685	68147	ENSMUSG00000028010	8.67	8.05
---	down	1.53	9.68E-03	chr2(+):113543305-113545587	<a href="#">UCSC</a>	---	---	AK085610	---	---	8.42	7.81
Mrrf	down	1.53	2.35E-02	chr2(+):359592173-36046169	<a href="#">UCSC</a>	mitochondrial ribosom	2400002D02Rik	AK032371	67871	ENSMUSG00000026887	9.54	8.92
---	down	1.53	2.81E-02	chr19(+):42002733-42004477	<a href="#">UCSC</a>	---	---	AK093028	---	---	7.19	6.57
Hells	down	1.53	3.95E-02	chr19(+):39005434-39042769	<a href="#">UCSC</a>	helicase, lymphoid spe	E130115I21Rik // LSH // Lysh //	BC080874	15201	ENSMUSG00000025001	8.38	7.77
Mc5r	down	1.53	3.18E-02	chr18(+):68497250-68499377	<a href="#">UCSC</a>	melanocortin 5 recept	---	U08354	17203	ENSMUSG00000007480	7.22	6.61
Dmx1	down	1.53	2.35E-02	chr18(+):49992651-50123908	<a href="#">UCSC</a>	Dmx-like 1	C630007L23Rik	AY590892	240283	ENSMUSG00000037416	9.48	8.86
Olfr128	down	1.53	1.89E-02	chr17(+):38060483-38061500	<a href="#">UCSC</a>	olfactory receptor 128	GA_x6K02T2PSCP-2374126-23	BC139087	383243	ENSMUSG00000059030	7.28	6.77
---	down	1.53	1.27E-02	chr13(+):53124287-53130459	<a href="#">UCSC</a>	---	---	AK132507	---	---	7.35	6.64
Nhp2	down	1.53	3.20E-02	chr11(+):51433250-51437216	<a href="#">UCSC</a>	NHP2 ribonucleoprote	2410130M07Rik // D11Ert175e	AK019134	52530	ENSMUSG00000010556	10.32	9.70
Blsp2	down	1.52	4.24E-02	chr9(-):103327255-103382658	<a href="#">UCSC</a>	beaded filament struct	CP49	BC068172	107993	ENSMUSG00000032556	8.20	7.59
Mc1r	down	1.52	3.46E-02	chr8(+):125931005-125934522	<a href="#">UCSC</a>	melanocortin 1 recept	e // extensionrecessiveyellow // N	AK148437	17199	ENSMUSG00000074037	8.86	8.26
Slc7a6	down	1.52	1.56E-02	chr8(+):108692756-108722604	<a href="#">UCSC</a>	solute carrier family 7	LAT-2	AK165629	330836	ENSMUSG00000031904	9.60	8.99
Isvn1	down	1.52	1.36E-02	chr8(+):73118380-73121187	<a href="#">UCSC</a>	mvo-inositol 1-phosph	1300017C10Rik	AF238525	71780	ENSMUSG00000019139	10.39	9.78
Rplp2	down	1.52	1.55E-02	chr7(+):148633542-148637484	<a href="#">UCSC</a>	ribosomal protein, lar	2700049I22Rik	AK012402	67186	ENSMUSG00000025508	5.77	5.17
Ppat	down	1.52	4.10E-02	chr5(-):77342274-77380597	<a href="#">UCSC</a>	phosphoribosyl pyroph	5730454C12Rik // MGC-38417	AK159859	231327	ENSMUSG00000029246	9.26	8.65
1110001D16Rik	down	1.52	4.44E-03	chr4(-):151306487-151306960	<a href="#">UCSC</a>	RIKEN cDNA 111000-	---	AK003212	---	---	7.90	7.30
Sf3a3	down	1.52	4.31E-02	chr4(+):124392060-124409704	<a href="#">UCSC</a>	splicing factor 3a, sub	4930512K19Rik // 60kDa	AK030743	75062	ENSMUSG00000028902	10.34	9.74
Nop58	down	1.52	2.46E-02	chr1(+):59741849-59769036	<a href="#">UCSC</a>	NOP58 ribonucleoprom	MSSP // Nol5 // SIKsmilarprotein	AK044216	55989	ENSMUSG00000026200	9.38	8.78
E2f1	down	1.52	3.06E-02	chr2(-):154385370-154395590	<a href="#">UCSC</a>	E2F transcription fact	E2F-1	AK153968	13555	ENSMUSG00000027490	9.75	9.15
Eif1a	down	1.52	2.22E-05	chr18(+):46757357-46769867	<a href="#">UCSC</a>	eukaryotic translation	E1f1 // Eftu // eIF-1A // Eif4c	AK019451	13664	ENSMUSG00000057561	9.92	9.32
Cenpm	down	1.52	3.68E-02	chr15(-):82064509-82075178	<a href="#">UCSC</a>	centromere protein M	2610019I03Rik	AK017679	66570	ENSMUSG00000068101	9.45	8.84
Dlk1	down	1.52	3.58E-02	chr12(+):110691432-110701545	<a href="#">UCSC</a>	delta-like 1 homolog (D	Dlk1 // FA1 // Peg9 // pG2 // pref-	EU434917	13386	ENSMUSG00000040856	7.88	7.28
Timd2	down	1.52	1.14E-02	chr11(-):46482462-46520566	<a href="#">UCSC</a>	T-cell immunoglobulin	TIM-2 // Tim2	BC028829	171284	ENSMUSG00000040413	7.20	6.59
---	down	1.52	1.81E-02	chr11(+):95590074-95592261	<a href="#">UCSC</a>	---	---	AK043141	---	---	7.34	6.74
Aasdhpt	down	1.51	8.88E-03	chr9(-):4294793-4309496	<a href="#">UCSC</a>	aminoadipate-semiald	2010309J24Rik // 2810407B07R	---	67618	ENSMUSG00000025894	8.80	8.20
---	down	1.51	4.01E-02	chr8(+):68175738-68178110	<a href="#">UCSC</a>	---	---	AK086228	---	---	7.68	7.08
Rps3	down	1.51	4.76E-03	chr7(-):106626410-106632163	<a href="#">UCSC</a>	ribosomal protein S3	D7Erd795e	AK164077	27050	ENSMUSG00000030744	11.98	11.38
Wbscr22	down	1.51	1.83E-02	chr5(-):135528829-135540830	<a href="#">UCSC</a>	Williams Beuren syndr	1110003N24Rik	AK002497	66138	ENSMUSG00000005378	10.15	9.55
Srm	down	1.51	1.00E-02	chr4(+):147965611-147968727	<a href="#">UCSC</a>	spermidine synthase	SpdST // SpdSy	AK028359	20810	ENSMUSG00000006442	11.17	10.57
---	down	1.51	3.81E-02	chr3(-):141556649-141559349	<a href="#">UCSC</a>	---	---	AK082979	---	---	6.86	6.27
Lbh	down	1.51	4.77E-02	chr7(+):73267645-73291282	<a href="#">UCSC</a>	limb-bud and heart	1810009F10Rik // 6720416L16R	BC052470	77889	ENSMUSG00000024063	11.12	10.52
Gart	down	1.51	2.46E-02	chr16(-):91621649-91647199	<a href="#">UCSC</a>	phosphoribosylglycine	Gaps // Prgs	AK146355	14450	ENSMUSG00000029262	9.79	9.20
Nip7	down	1.50	4.89E-02	chr8(+):109580777-109583145	<a href="#">UCSC</a>	nuclear import 7 hom	1110017C15Rik // 6330509M23R	AK003739	66164	ENSMUSG00000031917	8.27	7.69
---	down	1.50	6.90E-03	chr7(-):141390192-141391945	<a href="#">UCSC</a>	---	---	AK038353	---	---	6.96	6.37
---	down	1.50	4.81E-02	chr7(-):28620296-28622620	<a href="#">UCSC</a>	---	---	AK042484	---	---	7.34	6.75
Fkbp4	down	1.50	3.91E-02	chr6(-):128379556-128388675	<a href="#">UCSC</a>	FK506 binding protein	FKBP-52 // FKBP52	AK051433	14228	ENSMUSG00000030357	9.29	8.70
Wdr75	down	1.50										