

SUPPLEMENTARY DATA

BCL2A1

IMMGEN	Species	Tissue	Symbol	fold change	Treatment
polyICvsVe	Mouse	AlveolarMac	Bcl2a1a	2	PolyIC
Interferome					
IFNA vs Ve	Human	Monocyte	BCL2A1	3.3	IFN
GMCSF vs	Mouse	MDSC	Bcl2a1a	suppression	GM-CSF
GMCSF+IFNg					+IFNg

Transcriptomic data VE= vehicle (control)

Experimen	Species	Tissue	Probe	Symbol	Fold Chang	P-value	Treatment	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	4.08561	0	IL1B	IL-1 BETA
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	7.158266	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	3.069695	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	3.230141	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	2.845869	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	7.758253	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	3.124503	0	IL1B	
IL1B vs Ve	Human	hepatocyte	205681_at	BCL2A1	7.947128	0	IL1B	
TNF vs Ve	Human	epithelium	7990818	BCL2A1	7.919604	0.001424	TNF	TNF-ALPHA
TNF vs Ve	Human	hepatocyte	205681_at	BCL2A1	2.236581	1.31E-08	TNF	
TNF vs Ve	Human	hepatocyte	205681_at	BCL2A1	2.869731	6E-10	TNF	
TNF vs Ve	Human	hepatocyte	205681_at	BCL2A1	2.684751	1.2E-09	TNF	
TNF vs Ve	Human	epidermis,	ILMN_176	BCL2A1	2.009518	0.010482	TNF	
FGF19 + T	Human	epithelium	7990818	BCL2A1	4.836208	0.003608	FGF19,TNF	
LPS vs Veh	Norway Ra	whole liver	1368482_ε	Bcl2a1	6.153416	0.000231	LPS	TLR
LPS vs Veh	Human	hepatocyte	205681_at	BCL2A1	6.314044	0	LPS	
LPS vs Veh	Norway Ra	whole liver	1368482_ε	Bcl2a1	5.880627	0.000311	LPS	
LPS vs Veh	Norway Ra	whole liver	1368482_ε	Bcl2a1	2.689758	0.031984	LPS	
LPS vs Veh	Human	hepatocyte	205681_at	BCL2A1	2.838135	6E-10	LPS	
LPS vs Veh	Norway Ra	whole liver	1368482_ε	Bcl2a1	6.090048	0.000247	LPS	
LPS vs Veh	Human	hepatocyte	205681_at	BCL2A1	4.861197	0	LPS	
LPS vs Veh	Norway Ra	whole liver	1368482_ε	Bcl2a1	6.043804	0.00026	LPS	
LPS vs Veh	Human	hepatocyte	205681_at	BCL2A1	4.242685	0	LPS	
P3CSK4 vs	Human	myeloid lir	BCL2A1 9ε	BCL2A1	2.782493	5.77E-08	P3CSK4	TLR
P3CSK4 vs	Human	myeloid lir	BCL2A1 9ε	BCL2A1	5.574397	0	P3CSK4	
125DVD3 \	Human	myeloid lir	205681_at	BCL2A1	8.510467	2.81E-05	125DVD3	STEROID
125DVD3 \	Human	smooth m	BCL2A1 9ε	BCL2A1	2.520448	0.0012	125DVD3	VITAM D3
125DVD3 \	Human	smooth m	BCL2A1 9ε	BCL2A1	7.105617	0.0006	125DVD3	
DOWN-REGULATED								
TGFB2 vs \	Human	other, fibr	205681_at	BCL2A1	-2.42428	0.007574	TGFB2	TGF BETA
TGFB1 vs \	Human	other, fibr	205681_at	BCL2A1	-2.52269	0.006081	TGFB1	
TGFB1 vs \	Human	hepatocyte	205681_at	BCL2A1	-4.42311	6E-10	TGFB1	
TGFB1 vs \	Human	hepatocyte	205681_at	BCL2A1	-4.59256	4E-10	TGFB1	
TGFB1 vs \	Human	hepatocyte	205681_at	BCL2A1	-4.94485	2E-10	TGFB1	
DEX vs Ve	Norway Ra	whole liver	1368482_ε	Bcl2a1	-2.91714	2.52E-05	DEX	STEROID
DEX vs Ve	Norway Ra	whole liver	1368482_ε	Bcl2a1	-3.78112	6.78E-07	DEX	DEXAMETH
DEX vs Ve	Norway Ra	whole liver	1368482_ε	Bcl2a1	-2.63061	0.000103	DEX	
DEX vs Ve	Norway Ra	whole liver	1368482_ε	Bcl2a1	-2.86176	3.28E-05	DEX	

DEX vs Veh Norway Ra whole liver A_42_P51 Bcl2a1	-3.92259	0.000206	DEX
DEX vs Veh Norway Ra whole liver A_42_P51 Bcl2a1	-4.57337	8.82E-05	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-2.37092	0.000413	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-2.00596	0.003401	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-2.91024	2.6E-05	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-4.36257	9.24E-08	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-3.6783	9.97E-07	DEX
DEX vs Veh Human epithelium BCL2A1 BCL2A1	-3.61125	1E-10	DEX
DEX vs Veh Human hepatocyte 205681_at BCL2A1	-2.68814	4.22E-06	DEX
DEX vs Veh Norway Ra whole liver 1368482_ε Bcl2a1	-2.24437	0.000368	DEX

BCL2L14

INTERFEROME DATA

DATASET ID	FOLD	TREATMENT	TYPE OF	PROBESET	PROMOTER TF DATA	
	INDUCTION	TIME	INTERFERON		STAT1,STAT3,NF-KB	
47	3.9	5 HR	Type I	221241_s_at		
301	7	6 HR	Type I	7953993		

TRANSCRIPTOMIC DATA

Experiment	Species	Tissue	Probe	Symbol	Fold Change	P-value	Treatment
IFNA1 vs V	Human	hepatocyte	221241_s_	BCL2L14	23.89382	0	IFNA1
IFNB1 vs C	Human	epithelium	BCL2L14	BCL2L14	4.917129	0.001162	IFNB1
IFNA1 vs V	Human	hepatocyte	221241_s_	BCL2L14	4.103503	8E-09	IFNA1
IFNG vs Ve	Human	myeloid	lir BCL2L14 9	BCL2L14	9.694558	0	IFNG
IFNA1 vs V	Human	hepatocyte	221241_s_	BCL2L14	13.41221	0	IFNA1
IFNG vs Ve	Human	epidermis,	221241_s_	BCL2L14	3.112359	0.010527	IFNG
IFNA1 vs V	Human	hepatocyte	221241_s_	BCL2L14	19.09894	0	IFNA1
IFNB1 vs C	Human	epithelium	BCL2L14	BCL2L14	4.367666	0.005981	IFNB1
IFNA1 vs V	Human	hepatocyte	221241_s_	BCL2L14	6.341885	2E-10	IFNA1
TGFB2 vs V	Human	other, fibr	221241_s_	BCL2L14	-3.8638	0.021441	TGFB2
TGFB2 vs V	Human	other, fibr	1552841_s_	BCL2L14	-2.97559	0.002472	TGFB2
17BE2 vs V	Human	epithelium	NM_13872	BCL2L14	-8.69614	0.002503	17BE2
17BE2 vs V	Human	epithelium	NM_03076	BCL2L14	-8.69614	0.002503	17BE2
17BE2 vs V	Human	epithelium	NM_13872	BCL2L14	-8.69614	0.002503	17BE2
DHT vs Ve	Human	epithelium	1552841_s_	BCL2L14	-4.45158	0.025096	DHT
DEX vs Ve	Human	lymphoid l	221241_s_	BCL2L14	3.300185	0.041228	DEX
DEX vs Ve	Human	eye, lens, e	221241_s_	BCL2L14	3.397556	0.022652	DEX
RU486 + D	Human	epithelium	233464_at	BCL2L14	4.506866	0.036092	DEX,RU486
RIP140/NR	Human	pluripoten	1552841_s_	BCL2L14	7.922585	0.000801	ATRA
RIP140/NR	Human	pluripoten	1552841_s_	BCL2L14	7.922585	0.000801	ATRA
ATRA vs Ve	House Mo	pluripoten	Bcl2l14 10	Bcl2l14	-2.88126	0.00005	ATRA
ATRA vs Ve	Human	pluripoten	1552841_s_	BCL2L14	2.76016	0.040375	ATRA

BCL3

INTERFEROME DATA

DATASET ID	FOLD INDUCTION	TREATMENT TIME	TYPE OF INTERFERON	PROBESET	PROMOTER TF DATA STAT1,STAT3,NF-KB
306	2.5	1.5HR	TYPE I	204908_s_at	
282	4.3	10 HR	TYPE I	ILMN_2749717	

TRANSCRIPTOME DATA

Experiment	Species	Tissue	Probe	Symbol	Fold Change	P-value	TREATMENT
TNF vs Veh	Human	epidermis,	ILMN_1711	BCL3	4.288766	8.12E-07	TNF
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	11.62403	7.28E-08	LPS
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	2.730324	0.000159	LPS
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	2.492361	0.000484	LPS
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	2.597225	0.012396	LPS
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	2.487383	0.000496	LPS
LPS vs Veh	Norway Ra	whole liver	1385627_ε	Bcl3	2.052888	0.006553	LPS
IL1B vs Veh	Human	hepatocyte	204908_s_	BCL3	2.107252	2.5E-09	IL1B
LPS vs Veh	House Moi	myeloid lir	1418133_ε	Bcl3	4.858643	1.62E-08	LPS
TNF vs Veh	Human	epidermis,	ILMN_1711	BCL3	5.469214	9.85E-08	TNF
IL1B vs Veh	Human	hepatocyte	204908_s_	BCL3	2.19696	1.1E-09	IL1B
LPS vs Veh	Norway Ra	whole liver	1385627_ε	Bcl3	4.576919	5.39E-07	LPS
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	7.712182	2.25E-06	LPS
TNF vs Veh	Human	epidermis,	ILMN_1711	BCL3	3.268819	0.000011	TNF
LPS vs Veh	House Moi	whole liver	1418133_ε	Bcl3	2.153395	0.001591	LPS
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	2.427828	0.019411	LPS
IL6 vs Veh	Human	hepatocyte	204908_s_	BCL3	2.328255	1.46E-08	IL6
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	2.562114	0.013588	LPS
IL1B vs Veh	Human	hepatocyte	204908_s_	BCL3	2.198495	1.1E-09	IL1B
LPS vs Veh	Norway Ra	whole liver	1385627_ε	Bcl3	2.056721	0.006429	LPS
TGFB1 vs V	House Moi	epithelium	1418133_ε	Bcl3	2.304235	2.47E-05	TGFB1
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	2.186874	0.002252	LPS
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	2.118609	0.003225	LPS
TNF + EVs	Human	myeloid lir	A_23_P46	BCL3	3.379305	0.000185	TNF
LPS vs Veh	Norway Ra	whole liver	1385627_ε	Bcl3	2.063246	0.006222	LPS
LPS vs Veh	House Moi	ventricle, v	1418133_ε	Bcl3	3.070556	4.29E-06	LPS
IL6 vs Veh	House Moi	hepatocyte	1418133_ε	Bcl3	2.192341	2.14E-05	IL6
TNF vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	3.380392	0.000413	TNF
LPS vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	2.472971	0.017202	LPS
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	3.662326	3.85E-06	LPS
IL6 vs Veh	Human	hepatocyte	204908_s_	BCL3	2.084584	1.15E-07	IL6
LPS vs Veh	Norway Ra	whole liver	1385627_ε	Bcl3	3.058034	0.000073	LPS
TNF vs Veh	Norway Ra	whole liver	1398482_ε	Bcl3	2.400989	0.008244	TNF
TNF vs Veh	Human	epidermis,	ILMN_1711	BCL3	3.187529	1.42E-05	TNF
LPS vs Veh	Norway Ra	whole liver	1380414_ε	Bcl3	3.678189	3.64E-06	LPS
IL6 vs Veh	House Moi	whole liver	1418133_ε	Bcl3	2.095324	0.027348	IL6
LPS vs Veh	House Moi	ventricle, v	1418133_ε	Bcl3	4.419092	7.17E-08	LPS
LPS vs Veh	House Moi	whole liver	1418133_ε	Bcl3	5.445285	1.72E-06	LPS

LPS vs Veh Norway Ra whole liver	1398482_ε	Bcl3	11.63733	7.21E-08	LPS
LPS vs Veh Norway Ra whole liver	1385627_ε	Bcl3	3.381128	2.18E-05	LPS
TNF vs Veh Norway Ra whole liver	1398482_ε	Bcl3	2.223592	0.015142	TNF
IL6 vs Veh Human	hepatocyte	204908_s_ BCL3	2.008681	2.41E-07	IL6
IL1B vs Veh Human	hepatocyte	204908_s_ BCL3	2.058651	4E-09	IL1B
TNF vs Veh Human	hepatocyte	204908_s_ BCL3	2.022049	2E-07	TNF
IL6 vs Veh Human	hepatocyte	204908_s_ BCL3	2.099584	1E-07	IL6
LPS vs Veh Norway Ra whole liver	1385627_ε	Bcl3	2.096701	0.005265	LPS
LPS vs Veh Norway Ra whole liver	1385627_ε	Bcl3	4.222079	1.44E-06	LPS
LPS vs Veh Norway Ra whole liver	1398482_ε	Bcl3	5.245665	5.65E-05	LPS
IL6 vs Veh Human	hepatocyte	204908_s_ BCL3	2.3857	9.5E-09	IL6
IL6 vs Veh Human	hepatocyte	204907_s_ BCL3	2.063463	1.67E-06	IL6
LPS vs Veh Human	hepatocyte	204908_s_ BCL3	2.098664	7.7E-08	LPS
TNF vs Veh Human	myeloid lir	A_23_P46(BCL3	3.209034	0.000264	TNF
P3CSK4 vs Human	myeloid lir	BCL3 960(BCL3	3.068522	0.000251	P3CSK4
DEX vs Veh Human	osteoblast:	204908_s_ BCL3	-2.37076	1.6E-09	DEX
DEX vs Veh Human	osteoblast:	A_23_P46(BCL3	-5.34867	3E-10	DEX
DEX vs Veh Human	osteoblast:	A_23_P46(BCL3	-5.18254	4E-10	DEX
DEX vs Veh House Moi	whole liver	A_51_P13(Bcl3	-2.97125	0.016511	DEX
DEX vs Veh Human	epithelium	ILMN_171(BCL3	-2.4007	0.000384	DEX
DEX vs Veh Human	osteoblast:	A_23_P46(BCL3	-5.09418	5E-10	DEX
LIF vs Veh House Moi	pituitary, c	1418133_ε Bcl3	6.758471	1.75E-07	LIF
LIF vs Veh House Moi	pituitary, c	1418133_ε Bcl3	5.217156	5.97E-07	LIF
Dex + LIF v House Moi	pituitary, c	1418133_ε Bcl3	5.543989	4.41E-07	DEX,LIF
Dex + LIF v House Moi	pituitary, c	1418133_ε Bcl3	5.261682	5.72E-07	DEX,LIF
125DVD3 \ Human	myeloid lir	204907_s_ BCL3	2.29902	0.007805	125DVD3
125DVD3 \ Human	epithelium	204908_s_ BCL3	2.270671	3.73E-05	125DVD3
ATRA vs Ve Human	myeloid lir	204907_s_ BCL3	7.855398	0.001219	ATRA
ATRA vs Ve House Moi	pluripoten	Bcl3 1009(Bcl3	-2.75604	1.61E-06	ATRA
ATRA vs Ve House Moi	pluripoten	Bcl3 1009(Bcl3	-6.31595	0.00005	ATRA

BCL6

INTERFEROME DATA

DATASET ID	FOLD	TREATMEN	TYPE OF	PROBESET	PROMOTER TF DATA STAT1,STAT3,NF-KB,IRF
	INDUCTION	TIME	INTERFERON		
26	3.1	2 HR	TYPE I	203140_at	
377	2	4 HR	TYPE I	1421818_at	

TRANSCRIPTOMIC DATA

Experimen	Species	Tissue	Probe	Symbol	Fold Chang	P-value	TREATMENT
IFNA1 vs V	Human	hepatocyt	215990_s_	BCL6	2.574703	4.29E-08	IFNA1
IFNA1 vs V	Human	hepatocyt	215990_s_	BCL6	2.743578	1.84E-08	IFNA1
IFNA1 vs V	Human	hepatocyt	203140_at	BCL6	3.461544	0	IFNA1
IFNA1 vs V	Human	hepatocyt	203140_at	BCL6	2.718479	0	IFNA1
LPS vs Veh	House Mo	whole liver	1421818_	Bcl6	2.967737	0.045892	LPS
LPS vs Veh	Norway Ra	whole liver	1379368_	Bcl6	5.934082	0.00498	LPS
IL6 vs Veh	Human	epithelium	215990_s_	BCL6	-2.0305	0.03475	IL6
IL1B vs Ve	Human	hepatocyt	203140_at	BCL6	2.071135	0	IL1B
TGFB1 vs V	House Mo	bone marr	A_52_P16	Bcl6	2.066521	1.14E-05	TGFB1
TGFB1 vs V	House Mo	epithelium	1421818_	Bcl6	2.04782	0.000158	TGFB1
TGFB1 vs V	House Mo	epithelium	1421818_	Bcl6	2.262007	7.49E-05	TGFB1
TGFB1 vs V	House Mo	epithelium	1421818_	Bcl6	2.440173	1.92E-05	TGFB1
IL6 vs Veh	Human	hepatocyt	203140_at	BCL6	3.390614	0	IL6
IL6 vs Veh	Human	hepatocyt	203140_at	BCL6	2.750324	0	IL6
IL6 vs Veh	Human	epithelium	203140_at	BCL6	-2.6132	0.00067	IL6
LPS vs Veh	Human	hepatocyt	203140_at	BCL6	2.331652	2E-10	LPS
LPS vs Veh	House Mo	whole liver	1421818_	Bcl6	3.644268	6.39E-06	LPS
DEX vs Ve	House Mo	other, neu	1450381_	Bcl6	2.13359	1.13E-07	DEX
DEX vs Ve	House Mo	other, neu	1421818_	Bcl6	3.623291	3E-10	DEX
LPS vs Veh	Norway Ra	whole liver	1379368_	Bcl6	3.489737	0.042668	LPS
IL6 vs Veh	Human	hepatocyt	215990_s_	BCL6	2.914916	0.000014	IL6
TNF vs Veh	Human	epidermis,	ILMN_173	BCL6	3.080802	7.62E-05	TNF
IL1B vs Ve	Human	hepatocyt	203140_at	BCL6	2.161568	0	IL1B
LPS vs Veh	Norway Ra	whole liver	1379368_	Bcl6	6.53881	0.003238	LPS
TNF vs Veh	Human	epithelium	8092691	BCL6	2.119827	0.000117	TNF
LPS vs Veh	House Mo	myeloid lir	1450381_	Bcl6	2.548232	1.59E-07	LPS
IL6 vs Veh	Human	hepatocyt	228758_at	BCL6	2.060861	5.43E-07	IL6
IL6 vs Veh	Human	epithelium	215990_s_	BCL6	-3.46765	0.002133	IL6
LPS vs Veh	House Mo	whole liver	1421818_	Bcl6	3.233368	2.94E-05	LPS
IL6 vs Veh	Human	hepatocyt	203140_at	BCL6	3.476582	0	IL6
IL6 vs Veh	Human	hepatocyt	215990_s_	BCL6	2.736582	2.87E-05	IL6
IL1B vs Ve	Human	hepatocyt	203140_at	BCL6	2.022742	0	IL1B
IL1B vs Ve	Human	hepatocyt	203140_at	BCL6	2.128554	0	IL1B
IL1B vs Ve	Human	hepatocyt	215990_s_	BCL6	2.043159	3.07E-07	IL1B
DEX vs Veh	Norway Ra	whole liver	A_44_P10	Bcl6	4.522341	0.01273	DEX
DEX vs Veh	Norway Ra	whole liver	A_44_P10	Bcl6	6.927343	0.003049	DEX
DEX vs Ve	Norway Ra	whole liver	1379368_	Bcl6	7.664973	3.73E-05	DEX

DEX vs Veh Norway Ra whole liver	1379368_ε Bcl6	5.422809	0.000403	DEX
DEX vs Veh Norway Ra whole liver	1379368_ε Bcl6	4.593792	0.001203	DEX
DEX vs Veh House Mouse cerebrum,	1421818_ε Bcl6	2.499747	9E-10	DEX
DEX vs Veh Human epithelium	ILMN_173' BCL6	2.143576	1E-10	DEX
ATRA vs Veh Human pluripoten	228758_at BCL6	5.541184	2.02E-06	ATRA
RIP140/NR Human pluripoten	228758_at BCL6	4.138849	1.01E-05	ATRA
RIP140/NR Human pluripoten	228758_at BCL6	4.138849	1.01E-05	ATRA
RIP140/NR Human pluripoten	203140_at BCL6	3.585089	2E-05	ATRA
RIP140/NR Human pluripoten	203140_at BCL6	3.585089	2E-05	ATRA
ATRA vs Veh House Mouse pluripoten	Bcl6 1009 Bcl6	2.656093	0.00001	ATRA
ATRA vs Veh Human pluripoten	215990_s_ BCL6	6.052565	0.005373	ATRA
ATRA vs Veh Human pluripoten	228758_at BCL6	3.213533	5.09E-05	ATRA
ATRA vs Veh Human pluripoten	203140_at BCL6	3.690208	1.66E-05	ATRA
125DVD3 \ Human myeloid lir	215990_s_ BCL6	3.26518	0.00438	125DVD3
125DVD3 \ Human myeloid lir	8092691 BCL6	2.143376	1.28E-05	125DVD3
125DVD3 \ Human myeloid lir	203140_at BCL6	13.29916	1.06E-06	125DVD3