

**Table 3. Genes bound by NF-κB in U937 cells**

EntrezGene symbol	Description	+ LPS				- LPS				Known targets	
		p65	c-Rel	RelB	p50	p65	c-Rel	RelB	p50		
ABHD8	hypothetical protein FLJ11743				+						
ACTR3	ARP3 actin-related protein 3 homolog							+	+		
AF093680	similar to mouse Glt3							+	W		
AF15Q14	AF15q14 protein				+			W			
AIM2	absent in melanoma 2							+	+	+	+
ALAS1	aminolevulinatase, delta-, synthase 1							+	+	+	+
AP1S2	adaptor-related protein complex 1				+	W		+			+
APBB1IP	similar to proline-rich protein 48				+	+	+	+			+
APG-1	heat shock protein (hsp110 family)							W			+
AQP9	aquaporin 9				+	+	+	+	+		
ARF3	ADP-ribosylation factor 3				+			+	+		+
ARHGAP4	Rho GTPase activating protein 4							+	W		
ARHGEF2	rho/rac guanine nucleotide exchange factor				+	+	+	+	+		+
ARL1	ADP-ribosylation factor-like 1							+	+		+
ARL6IP5	vitamin A responsive; cytoskeleton related							+	+	W	
ARTS-1	type 1 TNFR shedding aminopeptidase regulator							+			+
ASGR2	asialoglycoprotein receptor 2							+			
ASH1	hypothetical protein ASH1				+	+	+	+			
ATF6	activating transcription factor 6							+	W		
ATP5G1	ATP synthase, H+ transporting									W	
BAT3	HLA-B associated transcript 3				W			+			
BAZ1B	bromodomain adjacent to zinc finger domain, 1B							+		W	
BCL2A1	BCL2-related protein A1				+	+	+	+		W	
BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51)							+	W		
BF	B-factor, properdin				+	W					+
BNIP1	BCL2/adenovirus E1B 19kD interacting protein 1							+	+		+
BPI	bactericidal/permeability-increasing protein							+			
C10orf117	AD24 protein							+			
C11orf10	chromosome 11 open reading frame 10							+		W	
C14orf111	CGI-35 protein							+		+	
C20orf28	chromosome 20 open reading frame 28							+			
C21orf45	chromosome 21 open reading frame 45				+	+					
C21orf59	chromosome 21 open reading frame 59							W	+		+
C3	complement component 3				+	+	+	+	W		+
C6orf109	DKFZP566C243 protein							+			+
C6orf66	HSPC125 protein							+	W		+
C7orf10	chromosome 7 open reading frame 10				+			+		+	
C9orf100	hypothetical protein FLJ14642				+	W	+	+			
CA11	carbonic anhydrase XI							+	+		+
CAPZA1	capping protein (actin filament) muscle Z-line							+			
CARD15	caspase recruitment domain family, member 15							+			+
CAT	catalase							+			+
CCDC2	capillary morphogenesis protein 1				+						
CCL1	small inducible cytokine A1, I-309							+	+	+	+
CCL3	small inducible cytokine A3, Mip-1-alpha				+	+	+	+	+		+
CCL4	small inducible cytokine A4, Mip-1-beta				+	+	+	+	W		+
CCL5	small inducible cytokine A5 (RANTES)							W	+	+	+
CCNL1	cyclin L ania-6a				+	+	+	+	+	+	+
CCR1	chemokine (C-C motif) receptor 1							+	W		
CCRL2	chemokine (C-C motif) receptor-like 2				+	+	+	+	W		
CD37	CD37 antigen							W			+
CD58	CD58 antigen, (LFA 3)							W	+		+
CD69	CD69 antigen (p60, early T-cell activation antigen)				W	+	+	+			+
CDCA1	cell division cycle associated 1							+	W		W
CDH15	cadherin 15, M-cadherin (myotubule)							+		+	
CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)				+						+
CHI3L2	chitinase 3-like 2							W	+		+
CLCN1	chloride channel 1, skeletal muscle (Thomsen disease)							W	+		
CLECSF14	macrophage lectin 2 (calcium dependent)							+		W	
COX4I1	cytochrome c oxidase subunit IV isoform 1							+			+
CREB1	cAMP responsive element binding protein 1				+	+	+	+		+	+
CRYBA1	crystallin, beta A1							+			+
CSF2	colony stimulating factor 2 (granulocyte-macrophage)							+	+	+	+
CSF3	colony stimulating factor 3 (granulocyte)				+			+	W		+
CST7	cystatin F (leukocystatin)							+	W		
CTSC	cathepsin C							+			+
CYB5	cytochrome b-5							+		W	
CYP51A1	cytochrome P450, 51 (lanosterol 14-alpha-demethylase)				+						
DAF	decay accelerating factor for complement				+	+	+	+			+
DBI	diazepam binding inhibitor (GABA receptor modulator)				+	+	+	+			+
DBP	D site of albumin promoter binding protein										+
DDX21	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 21							+			
DDX31	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 31							+			
DDX47	hqp0256 protein				W	+	+			+	
DGCR6L	DiGeorge syndrome critical region gene 6 like										+
DGUOK	deoxyguanosine kinase							+			
DJ434O14.3	hypothetical protein dJ434O14.3							+			
DKFZp434K1210	hypothetical protein DKFZp434K1210							+	+		+
DKFZp762L0311	hypothetical protein DKFZp762L0311							+	+		+



EntrezGene symbol	Description	+ LPS				- LPS				Known targets			
		p65	c-Rel	RelB	p50	p52	p65	c-Rel	RelB		p50	p52	
KIAA0186	KIAA0186 gene product												
KIAA0218	KIAA0218 gene product				+	w					+		
KIAA0319	KIAA0319 gene product				+						w		
KIAA0409	KIAA0409 protein				+						+	+	
KIAA0669	KIAA0669 gene product				+						w		
KIAA1008	mitotic control protein dis3 homolog				+						w		
KIAA1056	KIAA1056 protein				+	+							
KLF15	Kruppel-like factor 15	+											
LGALS1	lectin, galactoside-binding, soluble, 1 (galectin 1)				+						+		
LIM2	lens intrinsic membrane protein 2 (19kD)				+								
LIMK1	LIM domain kinase 1				+						+		
LIPT1	lipoyltransferase				+	+	+				+	+	
LMNA	lamin A/C				w	+					+		
LOC113201	hypothetical protein BC012124	+											
LOC116211	hypothetical protein BC013113	+	+	w									
LOC51015	CGI-111 protein				+						w		
LOC51321	hypothetical protein				w	w	+				+		
LOC55580	hypothetical protein				+								
LOC92106	hypothetical protein BC008322				+						+		
LRRC19	leucine rich repeat containing 19	+	+	+							+		
LRSAM1	leucine rich repeat and sterile alpha motif containing 1	+											
M96	putative DNA binding protein	+											
MAN2B1	mannosidase, alpha, class 2B, member 1	+	+	+	+						w		
MAPK6	mitogen-activated protein kinase 6	+	+										
MASTL	hypothetical protein FLJ14813				+	+	+				+	+	+
MCC2	methylcrotonoyl-Coenzyme A carboxylase 2 (beta)				+						+		
MCP	membrane cofactor protein (CD46)	+											
MDH1	malate dehydrogenase 1, NAD (soluble)				w	w	+				w		
MEF2B	MADS box transcription factor 2, polypeptide B	w	+	w	w								
MGC10960	hypothetical protein MGC10960	w	+										
MGC10966	hypothetical protein MGC10966				w	+	+	+					
MGC14141	hypothetical protein MGC14141				+						+		
MGC4677	hypothetical protein MGC4677	+	+	w	+								
MGC4771	hypothetical protein MGC4771				+	+	+				+	+	
MGC5242	hypothetical protein MGC5242				+	+					+		
MID1IP1	hypothetical protein STRAIT11499	+	+	w						w	w		
MLLT10	myeloid/lymphoid leukemia translocated to 10				+								
MMA8	hypothetical protein MGC20496				+						+		
MMP19	matrix metalloproteinase 19				+	+	w				+		
MMP8	matrix metalloproteinase 8 (neutrophil collagenase)				+								
MMP9	matrix metalloproteinase 9 (gelatinase B, 92kD gelatinase)	+	+	+						+	+	X	
MRPL30	mitochondrial ribosomal protein L30	+	+	+						+			
MRPL34	mitochondrial ribosomal protein L34				+					+			
MRPS7	mitochondrial ribosomal protein S7				+	+				+			
MX2	myxovirus (influenza virus) resistance 2 (mouse)	+											
NAG73	NPC-related protein NAG73	+	+							+			
NAP1L1	nucleosome assembly protein 1-like 1				+								
NAPA	N-ethylmaleimide-sensitive factor attachment protein, alpha				+					+			
NCR1	lymphocyte antigen 94 homolog, NK-p46, (mouse)				+								
NFATC2	nuclear factor of activated T-cells, calcineurin-dependent 2				+					+			
NFKB2	NF-κB p52/p100	+	+	+	+	+				+	+	+	X
NFKB1B	NF-κB inhibitor, beta	+	w	+	+					w	+		
NKG7	natural killer cell group 7 sequence				+	w							
NME1	non-metastatic cells 1, protein (NM23A) expressed in				+								
NOLC1	nucleolar and coiled-body phosphoprotein 1				+	w							
NOVA1	neuro-oncological ventral antigen 1								+	+			
NR1D1	nuclear receptor subfamily 1, group D, member 1				w	+				+			
NRAS	neuroblastoma RAS viral (v-ras) oncogene homolog				w	+							
NRXN3	neurexin 3				+								
NUP107	nuclear pore complex protein						+	w			+		
OAS3	2'-5'-oligoadenylate synthetase 3 (100 kD)	+	+	+	+					+		X	
OAZ1	ornithine decarboxylase antizyme 1				+					+			
OAZ2	ornithine decarboxylase antizyme 2				+								
ORMDL1	hypothetical protein									+			
P4HA1	procollagen-proline, 2-oxoglutarate 4-dioxygenase alpha	+	w	+	+	+				+	+	+	
PAFAH2	platelet-activating factor acetylhydrolase 2 (40kD)				w	+				w			
PAK4	p21(CDKN1A)-activated kinase 4				w	+				+			
PALM	paralemmin				+					+			
PDE6D	phosphodiesterase 6D, cGMP-specific, rod, delta				+	w				+			
PEX13	peroxisome biogenesis factor 13	+			w	+							
PHLDA1	pleckstrin homology-like domain, family A, member 1				+	w							
PILRA	paired immunoglobulin-like receptor alpha	+	+	w									
PILRB	paired immunoglobulin-like receptor beta	w	+	w						w			
PKM2	pyruvate kinase, muscle	+			w					+			
PLK1	polo-like kinase (Drosophila)				+					+			
PLXNB1	plexin B1	+							+				
PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1				+	+	+			+			
PMS1	PMS1 postmeiotic segregation increased 1 (S. cerevisiae)				+								
PMS2L8	postmeiotic segregation increased 2-like 8				+								



EntrezGene symbol	Description	+ LPS				- LPS				Known targets
		p65	c-Rel	RelB	p50	p65	c-Rel	RelB	p50	
TFE3	transcription factor binding to IGHM enhancer 3			+						
TIMP1	tissue inhibitor of metalloproteinase 1	+	+	+	+					
TJP2	tight junction protein 2 (zona occludens 2)			+	+					
TLN1	talín 1			+	+				+	
TMPIT	transmembrane protein induced by tumor TNF				+	+			+	+
TNF	tumor necrosis factor (TNF superfamily, member 2)	+	+	+	w	+				X
TNFRSF1A	tumor necrosis factor receptor superfamily, member 1A	+	+	w	w					
TNFSF13	tumor necrosis factor (ligand) superfamily, member 13				+	+			+	+
TNFSF13B	tumor necrosis factor (ligand) superfamily, member 13b				+	w				
TNFSF14	tumor necrosis factor (ligand) superfamily, member 14			+	w					
TNIP3	hypothetical protein FLJ21162	+								
TRA1	tumor rejection antigen (gp96) 1				+	w				
TRAF1	TNF receptor-associated factor 1	+	+	+	+				+	X
TRAPPC3	similar to yeast BET3 (S. cerevisiae)			+	+				+	+
TRIM31	tripartite motif-containing 31			+	+					
TRPM2	transient receptor potential cation channel, subfamily M			+	+			+		
TTC17	hypothetical protein FLJ10890					+	+		+	
UBE2H	ubiquitin-conjugating enzyme E2H			+	w					
UBE2L6	ubiquitin-conjugating enzyme E2L 6				+				+	+
USP2	ubiquitin specific protease 2				+					
USP25	ubiquitin specific protease 25			+						
USP52	KIAA0710 gene product	+		+	w					
VAV1	vav 1 oncogene	+	w	+	+	w				
VSIG4	Ig superfamily protein	+		+	w					
WBP4	WW domain binding protein 4 (formin binding protein 21)	+	+	+	+				+	
YME1L1	YME1-like 1 (S. cerevisiae)								+	
YWHAB	tyrosine 3-monooxygenase, beta polypeptide				+				+	
ZBTB11	zinc finger protein				+				+	
ZDHHC6	hypothetical protein FLJ21952	+		w	w					
ZNF217	zinc finger protein 217			+						
ZNF221	zinc finger protein 221			+	+	+			+	+
ZNF581	HSPC189 protein			+						
ZNF76	zinc finger protein 76 (expressed in testis)	+	+	w						
ZNHIT1	putative cyclin G1 interacting protein			+						

+, Indicates high confidence binding ( $p < 0.002$ ),  
at least one subunit had to match this criterion  
w, Indicates weaker binding events ( $p < 0.01$ )