1 Table A1

2 Top 20 hits from the TNFα Secondary Screen (Known NF-κB regulators are

3 underlined)

Rank	Gene Name	Known Gene Function(s)
1	SNW1	Transcription Co-activator, Splicing Factor
2	TNFR1	TNF Receptor
3	UCHL3	De-ubiquitinating Enzyme
4	GHRH	Growth Hormone Releasing Hormone
5	BMP10	TGF Beta Activator
6	NDP52	Autophagy Regulator
7	CRHR2	Corticotropin Releasing Hormone
8	ATG7	Autophagy Regulator
9	NEF3	Neurofilament Protein
10	CFLAR	Apoptosis Regulator
11	CLCN2	Ion Channel
12	KDM4A	Histone Demethylase
13	HAPLN2	Extra-cellular Matrix Protein
14	BHMT2	Methyltransferase
15	PARVA	Matrix Remodeler
16	RELA	NF-κB
17	C5ORF11	Unknown Function
18	TRPC6	Ion Channel
19	LCE1B	Keratinization
20	CX3CL1	Chemokine

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7 Table A2.

Rank	Gene Name	Known Gene Function(s)
1	SNW1	Transcription Co-activator, Splicing Factor
2	UCHL3	De-ubiquitinating Enzyme
3	CFLAR	Apoptosis Regulator
4	PRKCG	Protein Kinase C Gamma
5	TRPC6	Ion Channel
6	DUSP15	Dual Specificity Phosphatase
7	KPNA1	Importin
8	BHMT2	Methyltransferase
9	GRIN2B	NMDA Receptor
10	ITCH	E3 Ub Ligase
11	APC2	Wnt Regulator
12	CINP	CDK Interacting Protein
13	RELA	NF-κB
14	<u>RIP1</u>	NF-KB Receptor Activator
15	FOSB	Transcription Factor (with Jun)
16	TLR4	LPS Receptor
17	KEL	Metallo-peptidase
18	KDM4A	Histone Demethylase
19	BFAR	Apoptosis Regulator
20	ATG7	Autophagy Regulator

Top 20 hits from the LPS Secondary Screen (Known NF-κB regulators are underlined)

13 Table A3

Rank	Gene Name	Possible mechanism for regulating NF-κB
1	SNW1	Co-activator, NF-кВ target gene splicing
2	GHRH	Via PAK-1 or STAT3
3	UCHL3	De-ubiquitination of complexes upstream of IKK
4	BHMT2	Methyl-transferase (PTM of p65)
5	KDM4A	Histone demethylase – regulating chromatin
6	CFLAR	Via reported RIP1 association
7	TRPC6	Ion channel – at the receptor level
8	BFAR	Cross talk with Apoptosis
9	DGKK	Kinase – unknown
10	CUL1	Via ubiquitination of complexes upstream of IKK
11	PRKCG	Kinase – phosphorylation of a key pathway protein
12	PARVA	Via matrix remodeling
13	GABARAP	Cross talk with autophagy (ATG5, ATG7)
14	NEF3	Via matrix remodeling

14 The top hits from endogenous validation in U87 cells