

Supplemental Table S2: The NF- κ B-dependent upregulated and downregulated genes induced by TLR4 stimulation in Control or S6K1^{KD} THP-1 cells

GENE	Cont. THP-1+LPS (3h)	Cont. THP-1+LPS (9h)	S6K1 ^{KD} THP-1+LPS (3h)	S6K1 ^{KD} THP-1+LPS (9h)	S6K1 ^{KD} THP-1	S6K1 ^{KD} THP-1+LPS (3h)	S6K1 ^{KD} THP-1+LPS (9h)
SYMBOL	/ Cont. THP-1	/ Cont. THP-1	/ S6K1 ^{KD} THP-1	/ S6K1 ^{KD} THP-1	/ Cont. THP-1	/ Cont. THP-1+LPS (3h)	/ Cont. THP-1+LPS (9h)
IL1B	119.794552	119.215339	131.116122	125.067009	1.426978	1.561839	1.497021
SERPINE2	31.792586	22.026695	41.067131	32.595035	1.877083	2.424667	2.777702
IL8	21.840023	17.087304	37.850539	41.34438	1.332462	2.309264	3.224019
BCL3	13.82639	11.179045	17.502999	14.392787	1.397593	1.769231	1.799372
CCL3	15.365627	10.437625	28.839832	13.71682	1.026024	1.925751	1.348371
IER3	13.553511	9.171791	30.215582	32.274776	1.175878	2.621449	4.137819
CD44	10.123538	9.157923	5.86209	5.977561	1.977421	1.145037	1.290703
NFKBIZ	9.626982	9.024501	16.33122	11.207953	1.29173	2.191291	1.60426
CDKN1A	2.665988	8.034879	6.937796	9.666161	1.581204	4.114824	1.902228
MX1	1.318458	7.799047	5.221921	37.697241	1.425257	5.644912	6.889079
CCL20	41.066797	6.535827	85.513183	15.146832	1.063973	2.215505	2.465766
THBS1	5.29649	5.901499	80.588778	131.170483	-1.058695	14.371951	20.994384
CD40	6.47215	5.367354	7.016627	8.697393	1.00249	1.086825	1.624459
ICAM1	7.246345	5.279595	14.006649	9.526373	-1.03258	1.871938	1.747443
FTH1	4.573597	4.718132	5.056265	7.188218	1.178783	1.303184	1.795912
NFKB2	8.211824	3.96705	10.249105	6.576939	1.039543	1.297444	1.723449
ADORA2A	10.490066	3.621856	10.474706	6.544334	-1.002963	-1.004434	1.801562
SDC4	10.713859	3.593526	7.465475	2.474992	1.617949	1.127396	1.11434

IL1A	3.433182	3.32871	5.138378	6.292233	1.160577	1.737013	2.193829
NFKB1	6.876927	3.247491	6.627871	4.439757	1.156494	1.114611	1.581083
SAT1	3.660532	2.946678	8.296843	8.692451	1.257219	2.849571	3.70869
HMOX1	2.065637	2.939582	3.340501	7.110374	1.275778	2.063159	3.085901
ABCA1	-1.101872	2.803823	1.631119	8.232876	-1.3667	1.315053	2.148461
IL1RN	1.805179	2.699124	6.638828	4.11807	1.271206	4.675056	1.939486
OLR1	6.525805	2.629029	8.796478	6.477608	1.278846	1.723825	3.150922
IRF7	1.304892	2.624661	2.966749	8.516269	-1.460369	1.556838	2.221844
TNFRSF1B	-1.765524	2.601299	1.843193	4.42457	-1.20312	2.704801	1.413747
CCL2	1.134289	2.486228	1.399378	9.014566	-1.159797	1.063725	3.126237
STAT5A	16.674569	2.445951	11.864628	3.215187	1.143002	-1.22957	1.502469
IFI44L	1.191463	2.337183	1.491058	12.279423	1.053704	1.31866	5.5361
TNFRSF21	-1.260308	2.312491	1.112727	3.257841	1.904507	2.670839	2.683072
CCND1	1.622644	2.124497	1.639895	2.276415	1.59608	1.613048	1.710211
PLAU	2.857024	2.02696	5.018368	5.611023	1.125119	1.976275	3.114552
CFB	2.088193	1.935822	2.357096	2.673444	1.252128	1.413368	1.729236
PTGS2	3.989896	1.769718	19.577515	5.228783	1.317972	6.466988	3.89406
TRAF1	3.355521	1.721135	3.966007	2.762667	1.013945	1.198417	1.627526
TNFRSF4	3.127695	1.554709	5.340006	3.359929	-1.006807	1.695786	2.14652
TNIP3	2.207407	1.372033	10.471084	3.581439	1.022706	4.85132	2.669584

; Un-regulated or down-regulated (represented as “-“) NF- κ B-dependent genes in each comparison (*column 1*: Control THP-1 cells treated with LPS for 3h *versus* Control THP-1 cells; *column 2*, Control THP-1 cells treated with LPS for 9h *versus* Control THP-1 cells; *column 3*, S6K1^{KD} THP-1 cells treated with LPS for 3h

versus S6K1^{KD} THP-1 cells; column 4, S6K1^{KD} THP-1 cells treated with LPS for 9h *versus* S6K1^{KD} THP-1 cells; column 5, S6K1^{KD} THP-1 cells *versus* Control THP-1 cells; column 6, S6K1^{KD} THP-1 cells treated with LPS for 3h *versus* Control THP-1 cells treated with LPS for 3h; column 7, S6K1^{KD} THP-1 cells treated with LPS for 9h *versus* Control THP-1 cells treated with LPS for 9h cells) were represented. These results were derived from the microarray results represented in supplemental Table S1.