

**NF- $\kappa$ B activation is critical for bacterial lipoprotein tolerance-enhanced  
bactericidal activity in macrophages during microbial infection**

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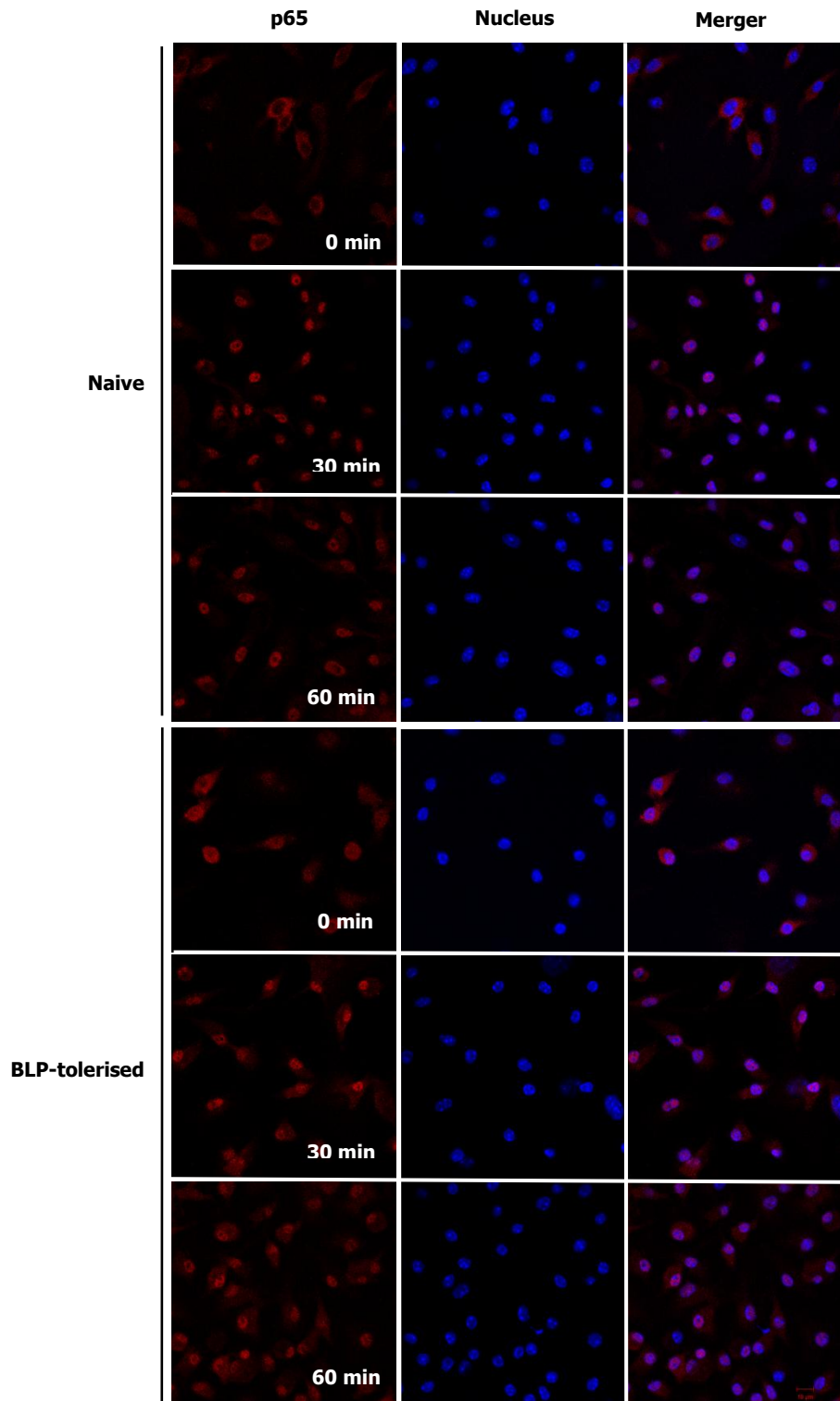
**Supplementary Table 1.** Gene expression of membrane-trafficking regulators and lysosomal enzymes in BLP-tolerised bone Marrow-derived macrophages (BMMs) by RT2 profiler PCR arrays

Refseq	Gene Symbol	Official Full Name	Fold Change	Trend
NM_007387	Acp2	Acid phosphatase 2, lysosomal	2.62	Up
NM_007388	Acp5	Acid phosphatase 2, tartrate resistant	15.71	Up
NM_008906	Ctsa	Cathepsin A	1.03	
NM_007798	Ctsb	Cathepsin B	0.49	Down
NM_009982	Ctsc	Cathepsin C	2.08	Up
NM_009983	Ctsd	Cathepsin D	0.44	Down
NM_007799	Ctse	Cathepsin E	0.01	Down
NM_019861	Ctsf	Cathepsin F	0.54	
NM_013590	Lyzl	Lysozyme 1	1.63	
NM_016722	Galns	Galactosamine (N-acetyl)-6-sulfate sulfatase	1.40	
NM_029364	Gns	Glucosamine (N-acetyl)-6-sulfatase	1.70	
NM_010498	Ids	Iduronate 2-sulfatase	1.41	
NM_018822	Sgsh	N-sulfoglucosamine sulfohydrolase (sulfamidase)	0.67	
NM_011421	Smpd1	Sphingomyelin phosphodiesterase 1, acid lysosomal	0.95	
NM_019734	Asah1	N-acylsphingosine amidohydrolase 1	0.94	
NM_001005847	Aga	Aspartylglucosaminidase	1.13	
NM_019441	Ppt2	Palmitoyl-protein thioesterase 2	1.23	
NM_021460	Lipa	Lysosomal acid lipase A	0.34	Down
NM_145937	Sumf1	Sulfatase modifying factor 1	1.32	
NM_021460	Hexa	Hexosaminidase A	0.64	
NM_010422	Hexb	Hexosaminidase B	0.47	Down
NM_008548	Man1a	Mannosidase 1, alpha	1.05	
NM_010764	Man2b1	Mannosidase 2, alpha B1	0.22	Down
NM_008079	Galc	Galactosylceramidase	0.54	
NM_008094	Gba	Glucosidase, beta, acid	1.99	
NM_008064	Gaa	Glucosidase, alpha, acid	1.23	
NM_008325	Idua	Iduronidase, alpha-L	0.93	

NM_017372	Lyz2	Lysozyme 2	1.64	
NM_028243	Prcp	Prolylcarboxypeptidase (angiotensinase C)	0.95	
NM_011189	Psme1	Proteasome (prosome, macropain) 28 subunit, alpha	0.78	
NM_009921	Camp	Cathelicidin antimicrobial peptide	15.58	Up
NM_010824	Mpo	Myeloperoxidase	0.65	
NM_019972	Sort1	Sortilin 1	0.73	
NM_019441	Ppt2	Palmitoyl-protein thioesterase 2	1.28	
NM_181414	Pik3c3	Phosphoinositide-3-kinase, class 3	0.82	
NM_025887	Rab5a	RAB5A, member RAS oncogene family	0.90	
NM_177411	Rab5b	RAB5B, member RAS oncogene family	0.90	
NM_009005	Rab7	RAB7, member RAS oncogene family	1.91	
NM_016676	Rab10	RAB10, member RAS oncogene family	2.52	Up
NM_024448	Rab12	RAB12, member RAS oncogene family	1.02	
NM_011227	Rab20	RAB20, member RAS oncogene family	2.16	Up
NM_033475	Rab34	RAB34, member of RAS oncogene family	0.72	
NM_001001932	Eea1	Early endosome antigen 1	0.88	
NM_010684	Lamp1	Lysosomal-associated membrane protein 1	1.19	
NM_010685	Lamp2	Lysosomal-associated membrane protein 2	0.99	
NM_007653	Cd63	Cd63 antigen	0.64	
NM_001029938	Rilp	Rab interacting lysosomal protein	0.64	
NM_053177	Mcoln1	Mucolipin 1	1.49	
NM_019400	Rabep1	Rabaptin, RAB GTPase binding effector protein 1	1.00	
NM_019983	Rabgef1	RAB guanine nucleotide exchange factor (GEF) 1	2.18	Up
NM_007508	Atp6v1a	ATPase, H <sup>+</sup> transporting, lysosomal V1 subunit A	1.02	
NM_011596	Atp6vOa2	ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit A2	1.24	
NM_021433	Stx6	Syntaxin 6	0.92	
NM_016797	Stx7	Syntaxin 7	1.31	
NM_009295	Stxbp1	Syntaxin binding protein 1	1.04	
NM_177620	Rin3	Ras and Rab interactor 3	1.66	

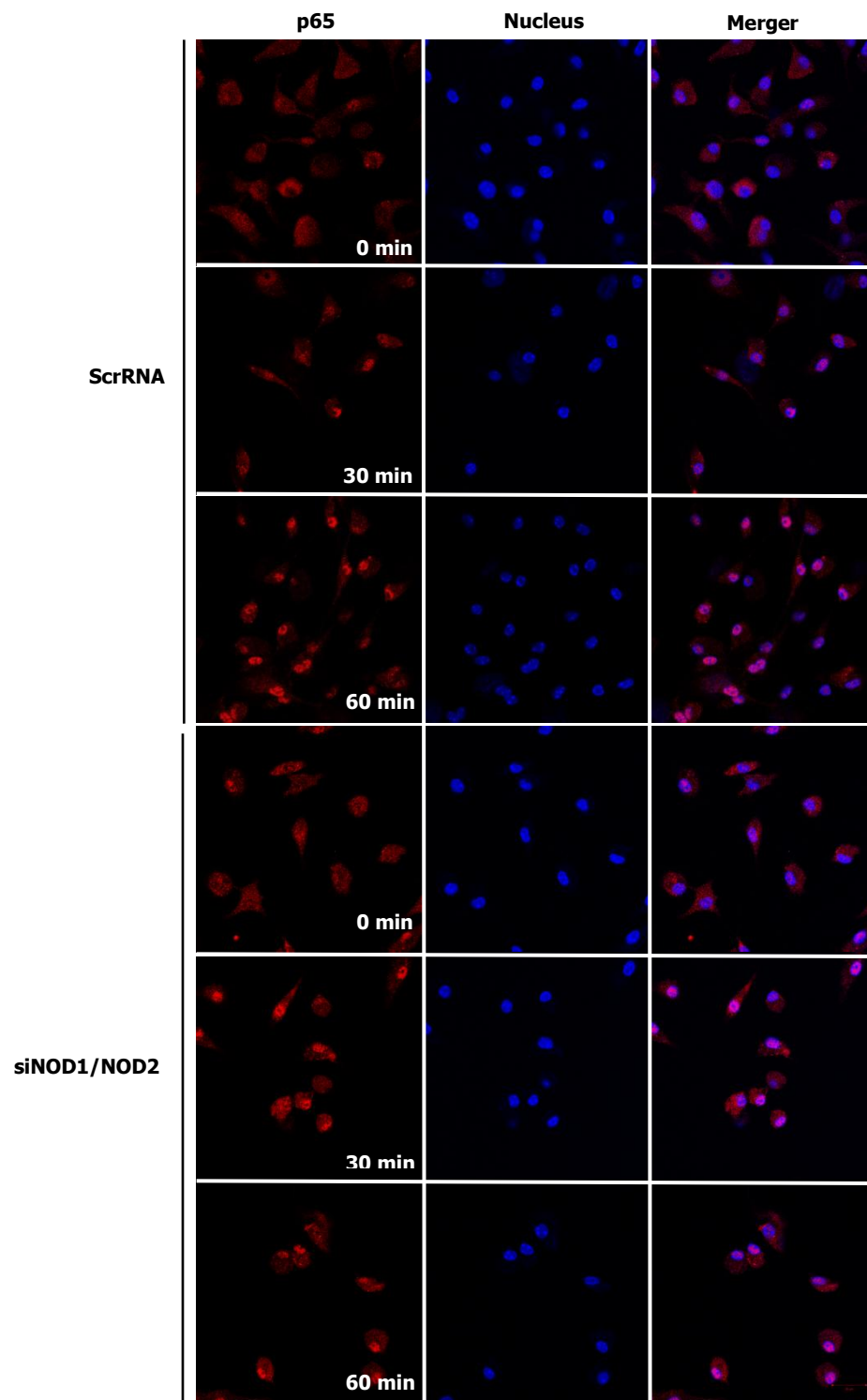
The refseq, gene symbol, and the official full names are indicated. The fold change represents the ratio of the gene expression level in BLP-tolerised BMMs to that in naive BMMs. When the fold change is >2, indicating the upregulated (Up) gene expression, and when the fold change is <0.5, indicating the downregulated (Down) gene expression.

**Figure S1**



**Fig. S1.** Nuclear translocation of NF- $\kappa$ B p65 upon *S. typhimurium* infection in naive and BLP-tolerised macrophages. Naive and BLP-tolerised BMMs were stimulated with *S. typhimurium* for the indicated time periods. Confocal images were taken after cells were stained with the anti-p65 Ab and Alexa Fluor 594-conjugated secondary Ab.

**Figure S2**



**Fig. S2.** Nuclear translocation of NF- $\kappa$ B p65 upon *S. typhimurium* infection in BLP-tolerised macrophages transfected with siNOD1/NOD2 or scrRNA. BLP-tolerised BMMs transfected with siNOD1/NOD2 or scrRNA were stimulated with *S. typhimurium* for the indicated time periods. Confocal images were taken after cells were stained with the anti-p65 Ab and Alexa Fluor 594-conjugated secondary Ab.