

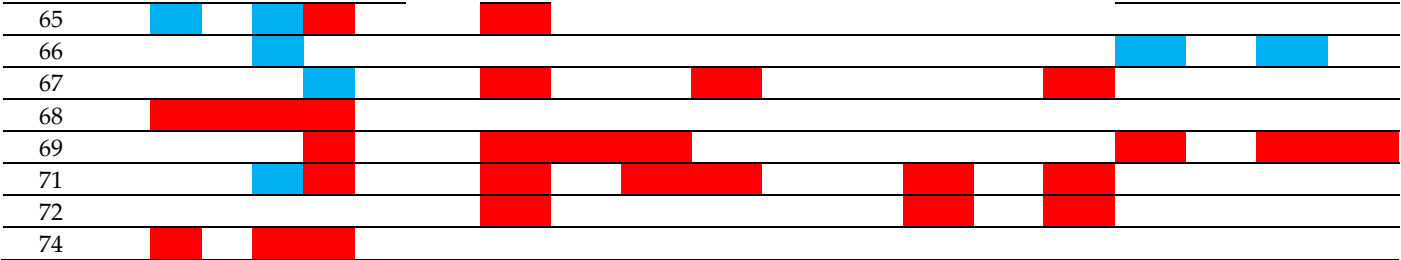
**Table S1.** Primers used in this study.

Human genes	Primer sequences (forward/reverse)	T, °C
18s	F: CGGCTACCACATCCAAGGAA R: GCTGGAATTACCGCGGCT	60
RNA		
IFNA	F: CCTGATGAATGCGGACTCCA R: TAGCAGGGGTGAGAGTCTTTG	63
IFNB	F: AGAAGGAGGACGCCGCATTG R: CCACTCTGACTATGGTCCAGGC	60
IFNG	F: ACTAGGCAGCCAACCTAAGC R: TTGGAAGCACCAGGCATGAA	60
TNFA	F: CTCCAGGCGGTGCTTGTT R: AGGCTTGCTACTCGGGGT	60
IL1B	F: GCTCGCCAGTGAAATGATGG R: GTCCTGGAAGGAGCACTTCAT	60
IL6	F: CCTTCCAAAGATGGCTGAAA R: CAGGGGTGGTTATTGCATCT	60
TRIM1	F: CGCCACGAGGCCTGTATAAT R: CTGGGGTGTGGCTCTTCTTT	60
TRIM2	F: AGGAGTGGCCGTATGGAAC R: AGAAAGTGTGCAGACAGGGG	60
TRIM3	F: GCAAACGAAAGGACAACCC R: TGCTGTCTGCTACCACGATG [3]	55
TRIM4	F: ATGCTAAAGCGATTCCAAGTG R: CAAGAACTGGCTGATGCTGTAT [3]	60
TRIM5α	F: CGACGCTACTGGGTGATGT R: ACTTTGAGAGCCCAGGATGC	60
TRIM6	F: GTGCGGGTCAGAGAGGATTC R: CCTGCCATTGTTGGTGTGATGC	60
TRIM7	F: GGCGAACCCTTCAAGCTCTA R: TCAGGCCTCTGTAATGTCCC	60
TRIM8	F: GACGGAGGATGTCAGCTTCA R: TCGTTCAGGAAGAGCTTGA [3]	55
TRIM9	F: ATTCGGGAGGTGTATGTGG R: CACCACCCGGTCATCATAGC	60
TRIM10	F: GGATGCAAGTCCTCCTGACTC R: TCCCGTTGCCTCAAGATGTC	55
TRIM11	F: CGTCTTCGCCGTTTGCT R: CCTCAGCTCCATAGGCACAA [3]	65
TRIM13	F: CTTGTCTATTGTCTTTGGTCT R: ATTCTGCCACATTGTTCACTACC [3]	60
TRIM14	F: CATTACAGACGCCATTGGACAT R: TGGTGAGGGGCTGGTTTTC	60
TRIM15	F: CAGCCAGCAAGTGAGCTTCTA R: CCAGAGTGATGACCCCTGAAT	55
TRIM16	F: GTGGCCACACCATAGTCTCC R: GCTTTGACCTCTGACACCGA	60
TRIM17	F: ACGCATTGTGCTGGAGTTTG R: CTGCTCAGGGGTTCTTCAT [3]	55
TRIM18	F: AAAGCCACTCACCCGAATAA R: TTCTCATCTCATGCTCAA [3]	60
TRIM19	F: CGGAAGACTCAGATGCCGAA R: ACACGGCCTTGAGTAGATG	60
TRIM20	F: CCACTCTGCTGGTCACCTACTAT R: GGAATCATCTGTGCCGTTT [3]	60
TRIM21	F: GAAGCTCCAGGTGGCATTAG R: GCACAACTCTGCGTGAATC [3]	60
TRIM22	F: TTATATCCAGATCGAGAGACAGAAG R: CATGACGTCAATCACATCCTGC	60
TRIM23	F: TGCCAGCATCCCTGTCACT R: TCCTAACGTAACGACCCGAAT [3]	60
TRIM24	F: CCCATCCAGCAACCTTCCAT R: TGCCTAGTAATCGTGGGGC	60
TRIM25	F: AGCATCAAACTGCGAGGAAT R: GGGAGGTTTCTTGGAATTCTTT [3]	60
TRIM26	F: GAGGGAATTCCAGGGGAAGC R: GTGCAGGTAGGCACTCTTGT	60
TRIM27	F: CCAGAACCAGCTCGACCATT R: GGAGGCGATACTCATGCTCC	60
TRIM28	F: GCGGAAATGTGAGCGTGTA R: AGAAGGTGGAGTCGGTAGCC [3]	60
TRIM29	F: ATCGGCAACAAGCAGAAGG R: ATGATTCTTGCTCCTGGAAC [3]	65
TRIM31	F: TCGTCTGCTGGGAAAGTCAC R: TCACAAAACCAAGCCCGGAT	60
TRIM32	F: AATCGGCAGAATGAGCACCA R: CTTGCGACTACTGTCAGCCA	60
TRIM33	F: GCCCTGTCTTCACTCCTTCT R: GCATTCTTGGCGGCATACT [3]	60
TRIM34	F: TCAGATGTGGAGTGTGCGAGT R: TGATTCCACTCATGTCCTGC [3]	60
TRIM35	F: CATCGCCAAGCACAATCAG R: GCTCCTCACTCTCAAGAACTC [3]	60
TRIM36	F: TCCAATACTAATTTCAGACCCA R: CCAACTTACACAGATGGCAAAC [3]	60
TRIM37	F: TCAGCTGTATTAGGCGCTGG R: AAGTGCACACTGATGGCAGA	60
TRIM38	F: GCCAGGGCTACAAGGAAAAG R: GCTTCTGCTCCGTACATCTGTC [3]	60
TRIM39	F: TACCGCAGTCTCCGACCTAA R: AGCCTCTGGTCTCATAACA [3]	60
TRIM40	F: GCGGCCAGAATCCTTGACAT R: AAGTCACCAGCATTCTTCAGTG	65
TRIM41	F: GAGGTGGTGCAGGAGTACAAG R: TCCTCCTTGGCTTTCATCTTC [3]	60
TRIM42	F: TGCTATGTGCGTTTGCTGTC R: CGCTCTGAGGTGAAGATGAAC [3]	60
TRIM43	F: TTCCTCTGGAGGGGCAATGT R: CACTCCTTGCCACGATGTCT	60
TRIM44	F: TCCAGTCATTGGGGCTCAC R: TCCCGAGTTACTTTAGGGTCTG [3]	60
TRIM45	F: AAGACAGCCCAGTCAGAACAAT R: CAGAAGGTGCAGCAGTGAAAC [3]	60
TRIM46	F: TGCTTGAGAACCCCGACA R: TCGTGGTCCTTGCTGATAG [3]	60
TRIM47	F: TGATGCTGAGCCCCAAGAC R: CCAGTAGTAGGTGCCTCGGT [3]	60
TRIM48	F: CTCAGGAGCACCGGTATCAC R: TGTCTCCAAAAGCCTTCCAGT	65
TRIM49	F: GGAATCTTACAGGTCTTTCAGGG R: GTTTATCTGCTCGGTTGACTTTG [3]	60
TRIM50	F: ATCGCCAACTGGTGAACAA R: TGAAGACATCCGACTCATTGAC [3]	60
TRIM51	F: GCCTCAGTGGATTACAGAGTTGAT R: AGATGTGAAAGCCTGAGCCC	60
TRIM52	F: CTTTCGTCCCAACTTGCAGC R: AGTTGTTCCAACCTTATTTCCTGG	60
TRIM54	F: ATCCTCTATGGCAGTCCCG R: CCTGGATGACTCCTGCTTGTA [3]	60
TRIM55	F: CCCAAGTCATTACCCGAACC R: TGCCTTTGATGCTTCCGAG [3]	60
TRIM56	F: AGGATGGTGGGAAAGACGG R: CTCCTCTTCTCGGGTTGTC [3]	60

TRIM58	F: GCAGAAGTAAGGCTGTCACAAG R: AATCGCTCAGGGTTGTTGG [3]	60
TRIM59	F: CGTGTACTGCCATGCTCTCA R: TGTTCAAGGCAGGTGACAAT	60
TRIM60	F: ACCCCCAGCTCCGTAATTTG R: ATTCCTCAAGGGCTCAAGGC	60
TRIM61	F: AAGAAGCAAGAAGAGGAAGAGGC R: ACGGTGCATTGTATTCCTCCA	60
TRIM62	F: CAGTACACCATCTGGAAGTCCC R: CAAGTTGCCGTAAGCCACA [3]	60
TRIM63	F: GAGGATTCCCGTCGAGTGAC R: GTTGCTTGGCAGTCAAGAGG	60
TRIM64	F: AAAGCCCCAGCCAGTGAA R: GTGGGAGCACTGAGATGGTC [3]	60
TRIM65	F: CCCAAGCACAGTTTGTCCAC R: GCGACAGATAGAAGTGACGGTT [3]	60
TRIM66	F: TGCACAGAGGAACACCGAC R: CGGGACCACCATTCACTC [3]	65
TRIM67	F: AGGAAAACGGACTGGACTACG R: CATCCACAAGGGCATCACA [3]	60
TRIM68	F: AATGGGGCTGAAGGGTGA R: CCATACAATACTCTGTTTTCGGG [3]	60
TRIM69	F: TGAGCATTCAAGGCAAAGACG R: TGGTTGCCAGCACCTTCAT [3]	60
TRIM71	F: AAGAAAGCCCTGGAGGAACG R: GGGTGTGAACATGACTCGGT	60
TRIM72	F: GGAGGAGACAGTGCCTCAGTT R: GCTCCAGGTAAGAGTTCAGGC [3]	60
TRIM74	F: CGGACCCGAATCGTCAATGAG R: TCCGAAGTGTCCAGCACAC	60
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IL1B	F: GCAACTGTTCTGAACTCAACT R: ATCTTTGGGGTCCGTCAACT	60
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TRIM1	F: CAGTGGGAACCTTCTGGGAC R: CGCGGATCTTGAGGGTGAAA	60
TRIM2	F: AGCGACTCTGAAGAAGAGCAA R: GCACCTCTTGAGGACCAGTG	60
TRIM3	F: GGGGCCAAACAGAAGGTGTT R: TAGCAAAACCTCAGGGGCAG	55
TRIM4	F: ATGCTAAAGCGATTCCAAGTG R: CAAGAACTGGCTGATGCTGTAT	60
TRIM6	F: TCCAGGTATCAGCCACAGTG R: TAGGGACAAAGGGCAGAAGG	60
TRIM7	F: CTCTACTGCCAGGACGACG R: CTTCTCAAGACCCTCAGCC	60
TRIM8	F: GACGGAGGATGTCAGCTTCA R: TCGTTCAGGAAGAGCTTGGA	59
TRIM9	F: ATGGAAGAGATGGAAGA R: CGCACGCCTGACATAAATTG	55
TRIM10	F: GCTGGCTTGGGGCTTTGTTTCA R: CACTCGAGGGTCTGCTCCCAAGGGTGCTTG	60
TRIM11	F: GCAGAAATGGCACGACGCCT R: GGAACAGCATTGCGTCCTCCA	60
TRIM12	F: AACGCTACTGGGTTCAGGTG R: CCCCCTGCGAAATAAAGGGT	60
TRIM13	F: AGGAGCAGCGGATGGCCTTCAACAT R: AGTGAACACACCTGTGTCTTGCGGC	60
TRIM14	F: CCCATTTGGAAGACGCCG R: AGGGTGGCTCAGCTCCG	60
TRIM15	F: CCTGAGCGAGACCTACTGTGA R: AGAGCTTCTAACCAGACTCCTG	60
TRIM16	F: GTGTGACTTCTGTCTTGGGGC R: GGTCCACCTCTTTGTTCTCTGC	60
TRIM17	F: TTCCAAGAGGATGTGATGCCG R: TGTCTTCCGACTCACGTTG	65
TRIM18	F: AACACAGAACTGGAGACTCTTT R: CTTCTGTCAGTTTGGCTTCTTG	60
TRIM19	F: AGAGGAACCCTCCGAAGACT R: ATTCCTCCTGTATGGCTTGC	60
TRIM20	F: TGAAATGGCATTCAAGCGCTTC R: CCAAGGTGCTCCCAATGAATG	60
TRIM21	F: GTCGAGGATTCACGCAGAGT R: CCAGGATCCACTCCTTTCCA	60
TRIM23	F: CATAGGCGTGTGCCTCTAGC R: GGTCCAGTACTGAATGCTTGTG	60
TRIM24	F: GGTCTTCGCCATTGCGC R: TCTCAGCACACTCTTGACTGC	60
TRIM25	F: CAACTTCCCCTGATGCCG R: CCTCCAGTAGTGAATGCCG	60
TRIM26	F: TGCAGGATGTCTGCACTACAC R: CAGGGTGACGCTTACTGTCTT	60
TRIM27	F: GCAAATCCAGAACCGACTGG R: GAGTCAGGCTCAAAAGCTCAG	60
TRIM28	F: AGGATGCTAACCACTGCTGC R: ACTGATGGTCTTGTGAGCG	60
TRIM29	F: ACCTCCTGTGACCTTTGCTG R: GGTAGCTATTCCTGCGGACT	60
TRIM30	F: ACCTTAGAAATGCTGCAGGGTG R: TCCCAGGACACCCAAATGGTA	60
TRIM31	F: GCGCCAGAGACTAGATGAGG R: TGAAATTCTTACCCCTGCTCA	60
TRIM32	F: TCTCCATCGGTTCTGTTGGC R: GGCCCTCTCGAATAAGGACG	60
TRIM33	F: CTGTGGACCAAAGGAAATGTGA R: TCTTGTGTGTCTGCATAAACTTGA	60
TRIM34	F: GGGCTACTGGGACAACCTC R: TTTGGCTGACCTTTGCGTTG	60
TRIM35	F: CCAACCACACGCTCAACAAC R: GTTCTTACACTTGGCCCGGA	60
TRIM36	F: TGCCAAGGGCAAGGTGACTA R: TCGGGTCACTGAATTACGC	60
TRIM37	F: GGTCTCCAGGTAGTAGCCA R: CCTGCTCCTCGTTCTCAGTG	60
TRIM38	F: CACTTTGAGCAGGTGTGAGG R: GCTGACTTGGTGACGTCGTA	55
TRIM39	F: TCTTAAACAGCTAATTGCGGATG R: GTTGTAAGGACAGTGTGCCA	60

TRIM40	F: ATGGGCTCTCTTGACAAGGAC R: ACTGAAGCCTTATCCATGTGC	60
TRIM41	F: CGAATCCAGGAGCCACAAAC R: TCCACATGCCCTTGTAGCTT	60
TRIM42	F: CCCAGGCCCAATTGTCATCT R: TGGTGTACCACCTTGCAGA	55
TRIM44	F: GTCCAGTCATTGGGGCTCAC R: TCCACCGGAATCTTTGCTTCTC	60
TRIM45	F: CCAGGCTCATAGGCGACAG R: CTACACAGTCCCGACACACC	60
TRIM46	F: ATGCAGACCTTCACTTCCATCA R: GGGCACAGCAGTTCCTTCTC	60
TRIM47	F: GTGGAGCGTGTGTGCCTTT R: GTTCATCCATGCGGTCCTCC	60
TRIM50	F: GCGCTTCGACTATAGCACCT R: GTAAGTAGACGCCGATGCGA	60
TRIM52	F: AGCCCTATGCAGTCACTTCG R: TTTGCATTGCCCTGATGCTG	60
TRIM54	F: AGCTGATCAACAAGGTCGGG R: CTCCCCATCCAAAGCCATGT	55
TRIM55	F: CAAAGCCGGAACAGCTC R: GCCTCAAATCCAATCTGAGAGG	65
TRIM56	F: TACAGAGCCGGGTGGTATGA R: GCAGGGGTGATCGATATGGG	60
TRIM58	F: GTTCTGCGAGAAGTCGGACA R: GCTCGGAGCATCCTCTGGTA	65
TRIM59	F: CATATGGAGGCCTCTGCGAA R: GGTGACAACATCTGGGTGGT	60
TRIM60	F: CTGTGTGAGGGATCGGGATG R: GGCGCTCTCTAGGACTTTCC	60
TRIM61	F: GGTATGCCGAACGGTTCTCT R: GTAAGGCCAAAATGTGCCCC	55
TRIM62	F: ACGATGCCTTCGAGGAGTT R: CTGTCCTGAAGGGCCTGA	60
TRIM63	F: GGGCTACCTTCCTCTCAAGTG R: TTTACCTCTGTGGTCACGC	60
TRIM65	F: AGATGCTGGCCCTTTGGAGA R: AGTGCAAATACTGGTTGGCG	60
TRIM66	F: AGCCACACTGCTCTACAGATG R: CAGGAGATGAGCTTACCTGGG	55
TRIM67	F: TGGAGCCCAAAGTATCTGCG R: GGTGGCAATTCATCTGGACG	60
TRIM68	F: CGCTGGATGCTGCAGGGTAT R: TCTGGATCTAGACGCACATCCACT	60
TRIM69	F: ATTCTCTCTCCAGGCCCATCT R: AGCCAGAATCCTTGCTCTGG	55
TRIM71	F: GATCGGGAGTGTGAGCTGTT R: TGCAGGAACAGAGACTTCGC	60
TRIM72	F: CCCGACGTACTTACGCCAAT R: CATTCTTGCCCTTGTCGTGC	60
TRIM75	F: GACCTGAAGACAGCCCATCC R: AGCTCCTGAGACGTTGAAGC	60





*H.s.*, *Homo sapiens*, *CT*, *Chlamydia trachomatis*, *CP*, *Chlamydia pneumoniae*, *PA*, *Pseudomonas aeruginosa*, *CM*, *Chlamydia muridarum*, TLR, Toll-like receptor, TNF, tumor necrosis factor, MDM, monocyte derived macrophages, PBL, peripheral blood lymphocytes, Nd, not determined, Ne, no expression.

THP1 cells, a human monocyte cell line. MDM or PBL were cultivated in the presence or absence of IFN I (Universal type I IFN is a hybrid alpha interferon, constructed from recombinant human IFN- $\alpha$  A and human IFN- $\alpha$  D) or IFN II (IFN $\gamma$ ) [16].  
\* [52]

**Table S3.** Comparison of *TRIM* expression in mouse organs after bacterial infections (qPCR from this work, RNA-seq data from [17] and [18]), in human macrophages and lymphocytes upon different infections and various stimuli [15,16]. Red, up-regulation of gene expression,  $p < 0.05$ , blue, down-regulation of gene expression,  $p < 0.05$ . More light colors demonstrate tendency without significance.

	<i>M.m.</i> lung	<i>M.m.</i> lung	<i>M.m.</i> lymph nodes	<i>M.m.</i> lymph nodes	<i>H.s.</i> macrophag es [15]	<i>H.s.</i> MDM or PBL [16]	<i>H.s.</i> MDM or PBL [16]	<i>M.m.</i> lung [18]	<i>M.m.</i> lung [17]
<i>TRIM</i>	CM	PA	CM	PA	TLR stimulation	IFN I	IFN II	CM, 7 days <i>p.i.</i>	PA, 24 h <i>p.i.</i>
1									
2									
3									
6					3,4				
7					2,5				
8									
9									
10					1-5,7-9, TNF				
11									
12								Trim12c	
13					1-5,8,9*				
14					3,4				
15					2-5,8,9,TNF				
16									
17									
18					2,6				
19					3,4				
20			Ne	Ne	3,4				
21					3,4				
23									
24									
25					3,4				
26					3				
27									
28									
29					1-5,7-9,TNF				
30									
31			Ne	Ne	2,3,4,5,8,TN F				
32									
33									
34					3,4				
35									
37					1				
38					3				
39							8		
41					4				
44									
45									
46									
47									
50					2,4,5,8,TNF				
52									
54									
55					1,6,7,TNF				
56					3,4				
58			Ne	Ne	2				
59					3,4				
60					2-5, 7-9, TNF				
61					1-5,7-9,TNF				
62									
63					2,5				

65				2	
67				2,5,TNF	
68					
69				2,3,4	
71		Ne	Ne	2,4,5,8, TNF	
72				2,8,TNF	

*H.s.*, *Homo sapiens*, *M.m.*, *Musculus*, *PA*, *Pseudomonas aeruginosa*, *CM*, *Chlamydia muridarum*, TLR, Toll-like receptor, TNF, tumor necrosis factor, MDM, monocyte derived macrophages, PBL, peripheral blood lymphocytes, Nd, not determined, Ne, no expression.

\* [52]