

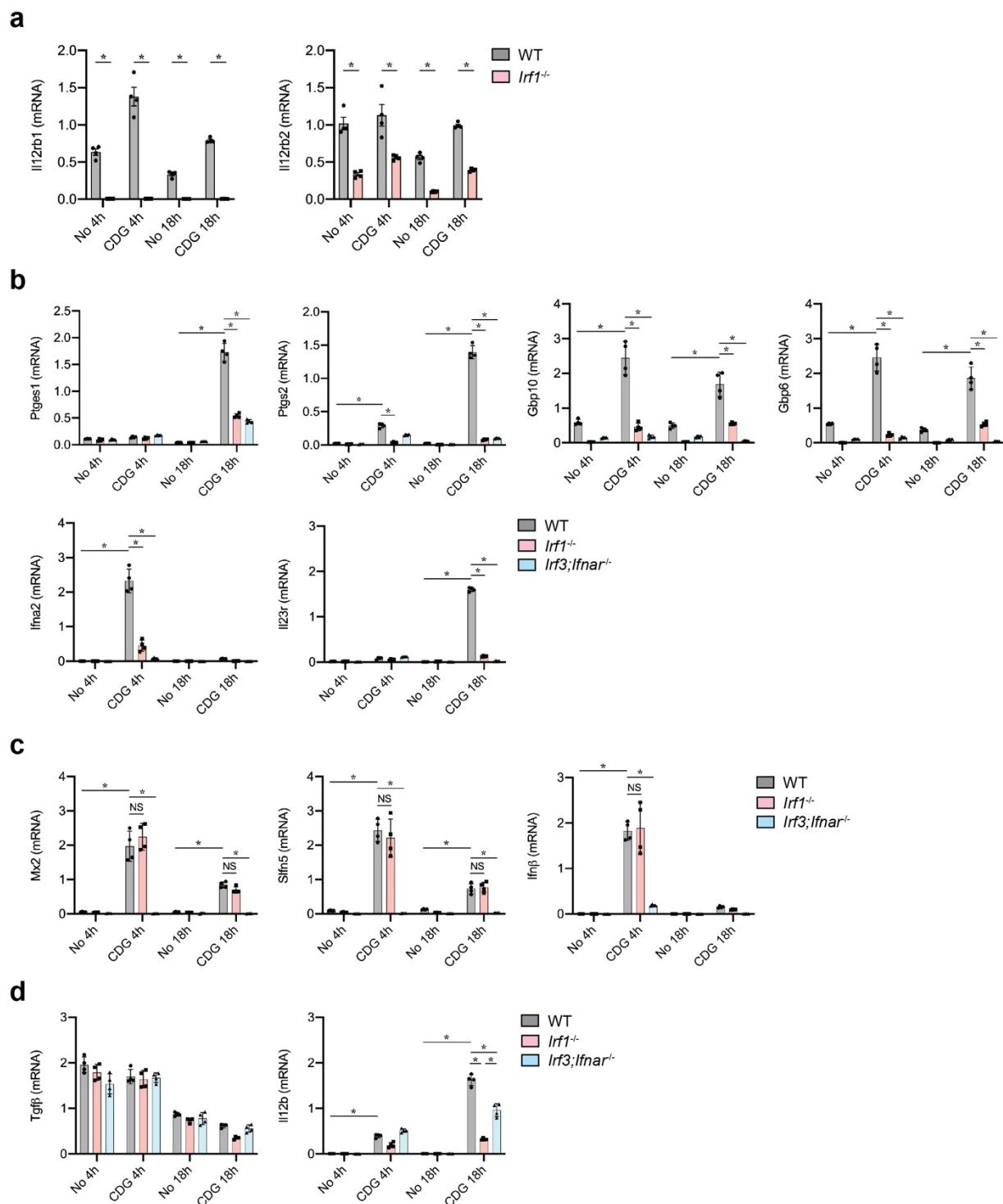
Supplementary Materials

Supplementary Figure 1. Supporting evidence for IRF1, IRF3 and IFNAR dependent gene expression.

(a) qRT-PCR analysis of *Il12rb1* and *Il12rb2* mRNA expression in BMDCs isolated from wild-type and *Irf1*^{-/-} mice after 4- and 18-hours stimulation with 25µg/ml of c-di-GMP. n=4. * p < 0.01.

(b-d) qRT-PCR analysis of the mRNA expression of indicated genes in BMDCs from wild-type, *Irf1*^{-/-}, *Irf3*^{-/-}; *Ifnar*^{-/-} mice after 4 and 18 hours stimulation with 25µg/ml of c-di-GMP. Data shows mean ± SEM of two independent experiments. N=4 * p < 0.01. NS, not significant. Two-way ANOVA with a Tukey's multiple comparisons test (a-d).

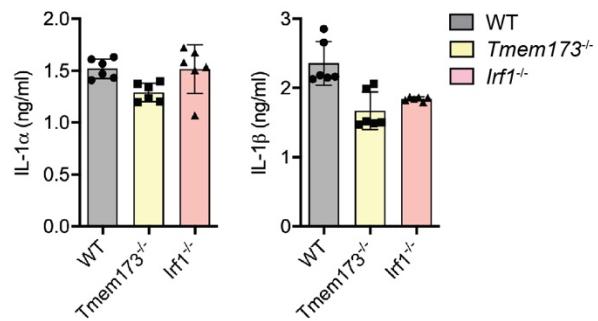
Supplementary Figure 1



Supplementary Figure 2. Inflammasome activation in BMDCs from wild-type, *Tmem173*^{-/-} and *Irf1*^{-/-} mice after LPS and ATP stimulation.

(a) IL-1 α and IL-1 β protein expression in supernatants of LPS-primed BMDCs isolated from wild-type, *Tmem173*^{-/-} and *Irf1*^{-/-} mice after stimulation with ATP. n=6. * $p < 0.001$. Two-way ANOVA with a Tukey's multiple comparisons test.

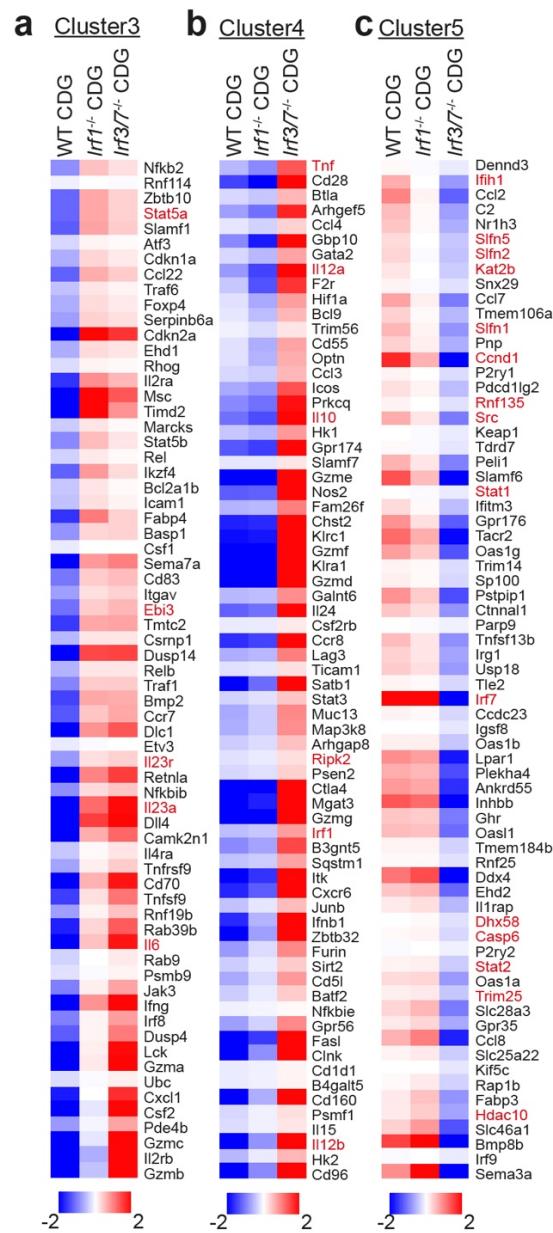
Supplementary Figure 2



Supplementary Figure 3. Cluster analysis of wild-type, IRF1 and IRF3/7 dependent gene expression signatures in response to c-di-GMP stimulation.

Heat maps showing genes contained in the clusters aggregated in Fig.4c that dependent on the presence of IRF1 and IRF3/7 (cluster 3), that are upregulated in the absence of IRF3/7 (cluster 4) or dependent on the presence of IRF3/7 (cluster 5). Key regulators are indicated in red.

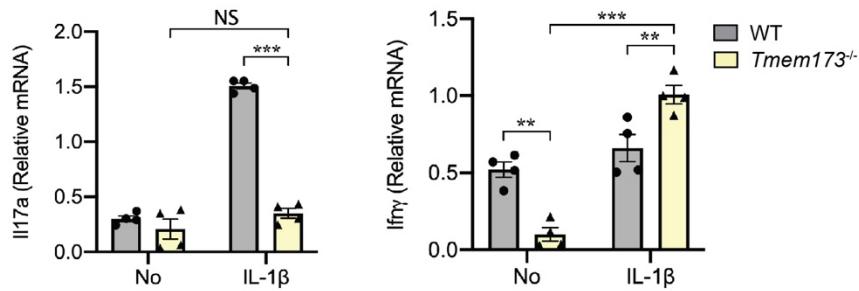
Supplementary Figure 3



Supplementary Figure 4. IL-1 β re-establishes IFN γ but not IL-17A expression in *Tmem173* $^{-/-}$ mice.

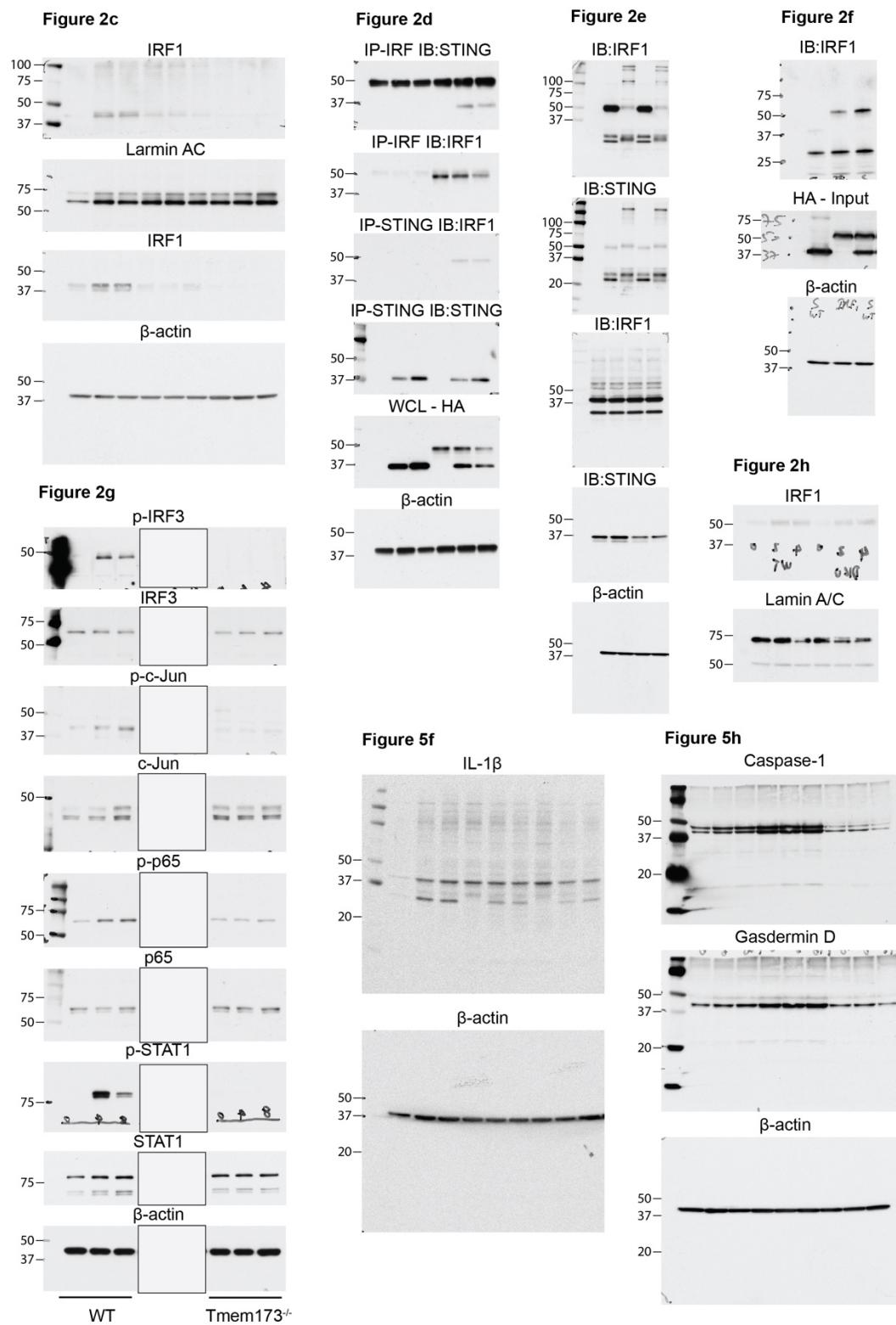
Il17a, and *Ifn γ* expression in CD4 $^{+}$ T cells from *Tmem173* $^{-/-}$ verse wild-type mice. Wild-type and *Tmem173* $^{-/-}$ mice were immunized with OVA plus c-di-GMP *i.p.* and injected with recombinant mouse IL-1 β on day 1 and day 3 before being sacrificed on day 5. n=4. *** $p < 0.001$. P-values, *** Two-way ANOVA with a Tukey's multiple comparisons test.

Supplementary Figure 4.



Supplementary Figure 5. All blot images of Figure 2 and Figure 5.

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Supplementary Table 1. Primers sequences used in this study.

Genes	Forward 5' to 3'	Reverse 5' to 3'
18S	GTAACCCGTTGAACCCCATT	CCATCCAATCGGTAGTAGCG
Gapdh	TGACCTCAACTACATGGTCTACA	CTTCCCATTCTCGGCCTTG
Casp1	TACACGTCTGCCCTCATTATC	CTCCAGCAGCAACTTCATTTC
Gbp10	CCGTACTGGGAAGTCCTATTG	CAGATGCCCTGGTTGAGA
Gbp6	GTCTGGACTGTTGGGATTGAT	GCTTGCATTCTGGTTGTC
Gsdmd	CTCCTGTCAGATGGGATTGATG	CCATTCCAAGCTCTCCAGTT
Ifna2	CTTCCTCGTGTGCTGATAGT	CCTTCAAGGCCCTTTGTT
Il1 α	GAAGAAGAGACGGCTGAGTT	TCACTCTGGTAGGTGTAAGGT
Il1 β	GCAACTGTTCCCTGAACTCAACT	ATCTTTGGGTCCTGCAACT
IL2	AGCAGCTGTTGATGGACCTA	CGCAGAGGTCCAAGTTCAT
IL4	GGTCTCAACCCCCAGCTAGT	GCCGATGATCTCTCAAGTGAT
Il6	TAGTCCTTCCTACCCCAATTCC	TTGGTCCTTAGCCACTCCTTC
Il12a	AGACATCACACGGGACCAAAC	CCAGGCAACTCTCGTTCTGT
Il12b	TGGTTGCCATCGTTGCTG	ACAGGTGAGGTTCACTGTTCT
Il12rb1	CTACAGGGTTCCAAGACAGAC	GTATGGTCGGAGGGACAAAG
Il12rb2	AGAGAATGCTCATTGGCACTTC	AACTGGGATAATGTGAACAGCC
Il17a	TGAGCTCCCAGATCACAGA	TCCAGAAGGCCCTCAGACTA
Il17f	TGCTACTGTTGATGTTGGAC	AATGCCCTGGTTTGTTGAA
Il18	ACCTTCCAAATCACTCCTCTT	GTCTGATTCCAGGTCTCCATT
Il21	CGCCTCCTGATTAGACTTCG	CAGGGTTGATGGCTTGAGT
Il22	ATGAGTTTCCCTATGGGAC	GCTGGAAGTTGGACACCTCAA
Il23a	CAGCAGCTCTCGGAATCTC	TGGATACGGGCACATTATTTT
Il23r	TCAGTGCTACAATCTCAGAGGACA	GCCAAGAACCCATTCCCGA
Il27	AGCCTGTTGCTGCTACCCTTGC	GTGGACATAGCCCTGAACCTCA
Il33	TCCAACCTCAAGATTCCCCG	CATGCAGTAGACATGGCAGAA
Il36 α	GCAGCTCAGAAACACATCAC	AGGATCCACACACGACTACTA
Ifn β 1	GGCAGATGTCCTCAACTGTC	GACCACCATCCAGCGTAG
Ifn γ	ACAGCAAGGCAGAAAAGGATG	TGGTGGACCCTCGGATGA
Irf1	CAGAGGAAAGAGAGAAAGTCC	CACACGGTGACAGTGCTGG
Irf3	GGCTTGTGATGGTCAAGGTT	TGGGGCTCAGATATTCAG
Irf7	CACCCCCATCTCGACTTCA	CCAAAACCCAGGTAGATGGTGA
Mx2	GAATTACCAGGGTGGCTGTAG	CAGGTTGATGGCTCCTGTT
Ptgs1	GGATACTGGCTCTGGAAATTG	GTAGTCATGCGCTGAGTTGTAG

Ptgs2	CGGACTGGATTCTATGGTGAAA	CTTGAAGTGGGTCAAGGATGTAG
Ptges1	CCACACTCCCTCTAACCATAAA	GCCAGAATTGTAGGTAGGTCTG
RoR γ t	GCTCCATATTGACTTTCCACT	GATGTTCCACTCTCCTCTCTTG
Slfn5	AAGGGAGGAAATGGATACCACA	CTCAACCCTGACCACTCCG
Tgf β 1	CCACCTGCAAGACCATCGAC	CTGGCGAGCCTAGTTGGAC