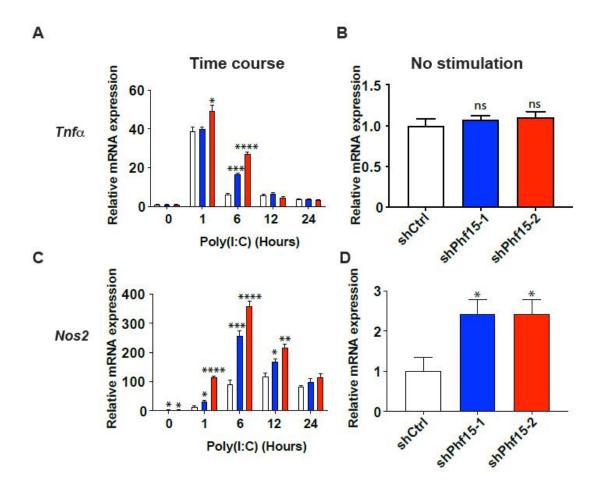


Supplementary Figure 2. Knockdown of *Phf15* increases the magnitude of the microglial inflammatory response after TLR9 stimulation. Time course experiments showing relative mRNA expression levels of $Tnf\alpha$ (A) and Nos2 (C) after CpG ODN stimulation of *Phf15* knockdown microglial SIM-A9 cells compared to shCtrl (control scrambled shRNA). $Tnf\alpha$ and Nos2 expression at time point 0 from the time course experiments are displayed separately in (B) and (D), respectively. Data are mean \pm SEM (n = 3 per condition). One-way ANOVA with Dunnett's multiple comparisons between sh*Phf15-1* or sh*Phf15-2* and shCtrl cells for individual timepoints: asterisks indicate *P < 0.05, **P < 0.01, ***P < 0.001, ****P < 0.0001. Knockdown efficiency for cell lines sh*Phf15-1* and sh*Phf15-2* compared to shCtrl is shown in Figure 2A. CpG ODN: CpG Oligodeoxynucleotide; $Tnf\alpha$: tumor necrosis factor alpha; Nos2: nitric oxide synthase, inducible



Supplementary Figure 3. Knockdown of Phf15 increases the magnitude of the microglial inflammatory response after TLR3 activation. 24-hour time course experiments showing relative mRNAexpression levels of $Tnf\alpha$ (A) and Nos2 (C) after Poly(I:C) stimulation of Phf15 knockdown microglial SIM-A9 cells compared to shCtrl (control scrambled shRNA). $Tnf\alpha$ and Nos2 expression at time point 0 from the time course experiments are displayed separately in (B) and (D), respectively. Data are mean \pm SEM (n=3 per condition). One-way ANOVA with Dunnett's multiple comparisons between shPhf15-1 or shPhf15-2 and shCtrl cells for individual timepoints: asterisks indicate *P < 0.05, **P < 0.01, ***P < 0.001, ***P < 0.0001. Knockdown efficiency for cell lines shPhf15-1 and shPhf15-2 compared to shCtrl is shown in Figure 2A. Poly(I:C), polyinosinic:polycytidylic acid; $Tnf\alpha$: tumor necrosis factor alpha; Nos2: nitric oxide synthase, inducible