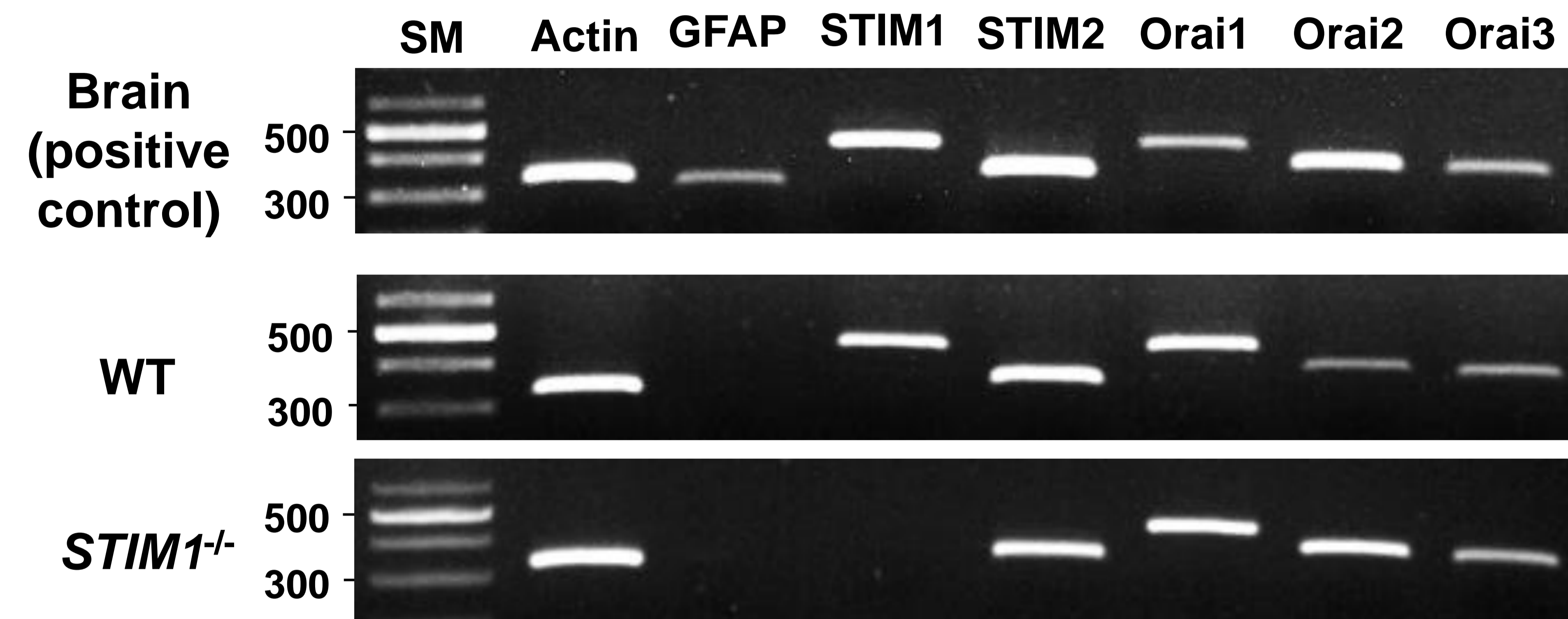
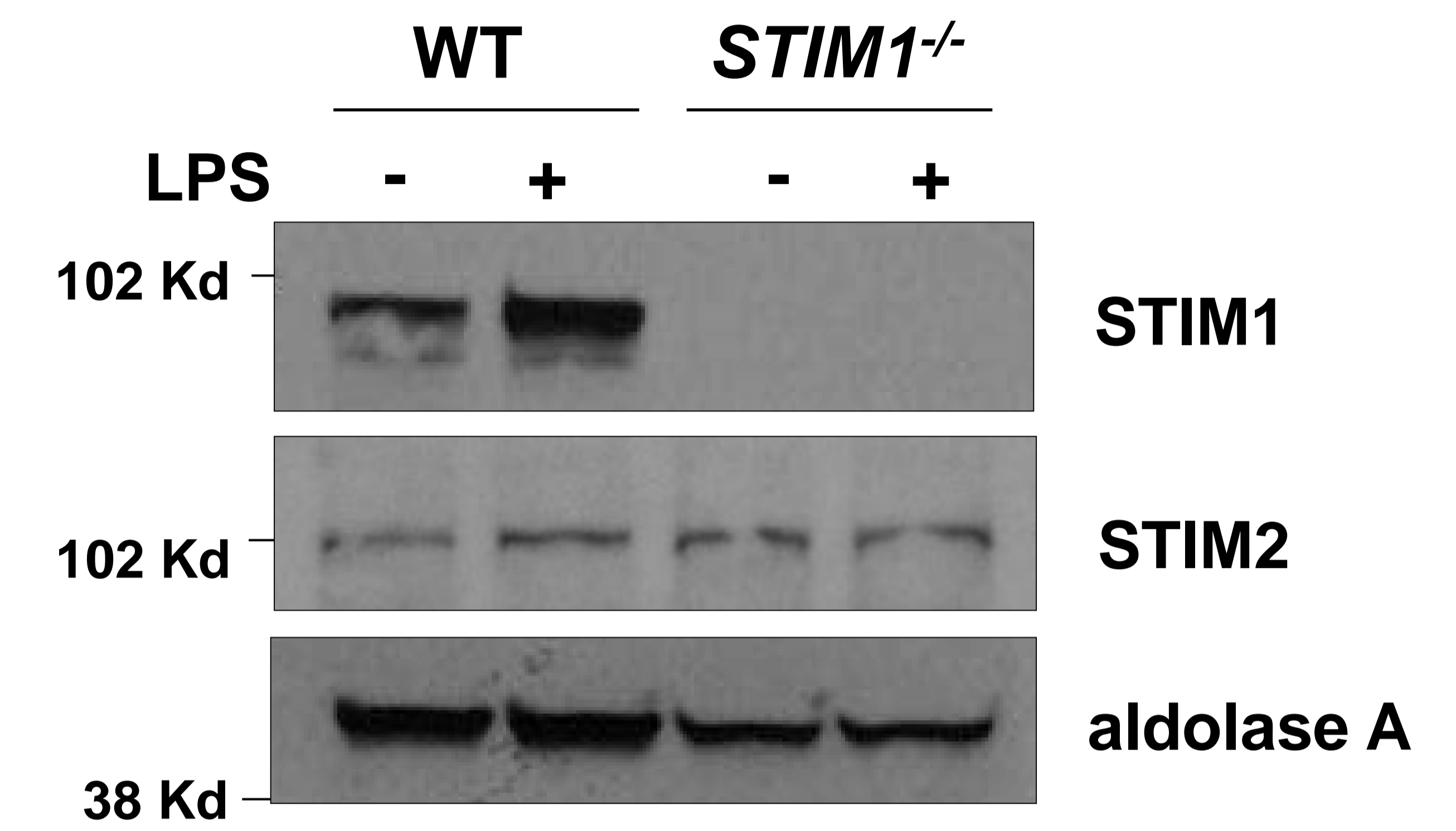


**Supplement Figure 1.** mRNA and protein Expression of SOCE elements in primary cultured microglia from wild-type and *STIM1*<sup>-/-</sup> mice.

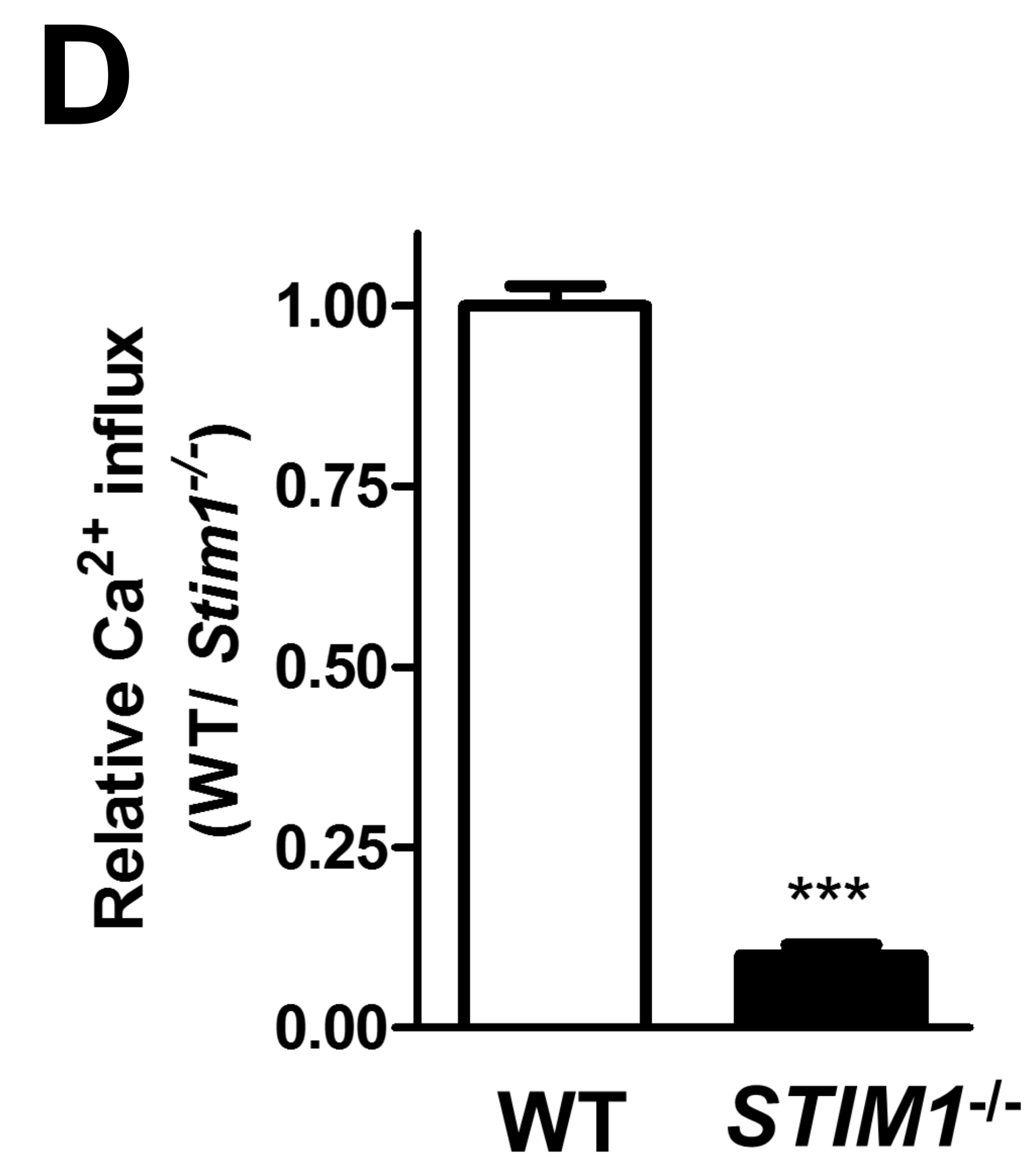
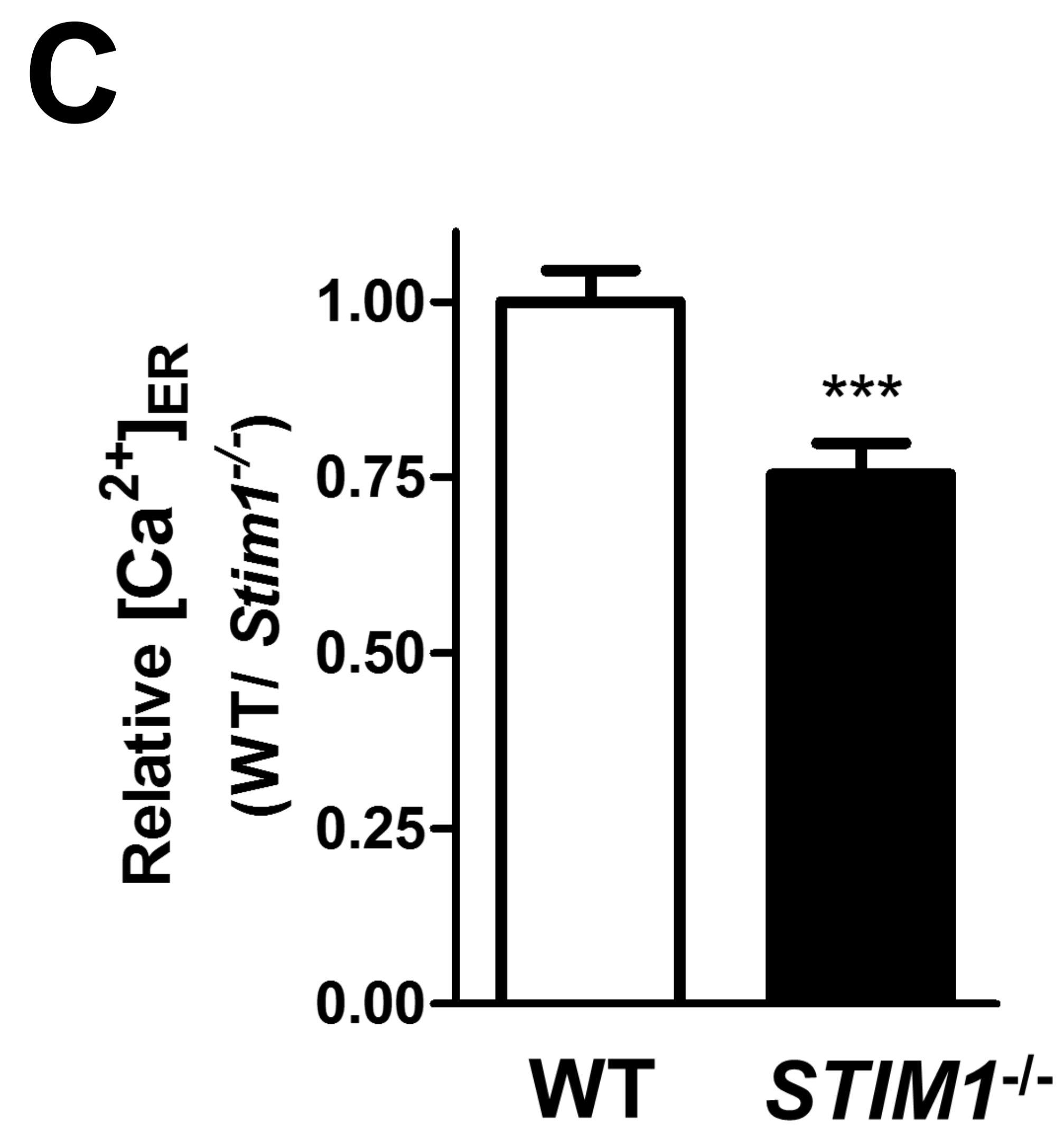
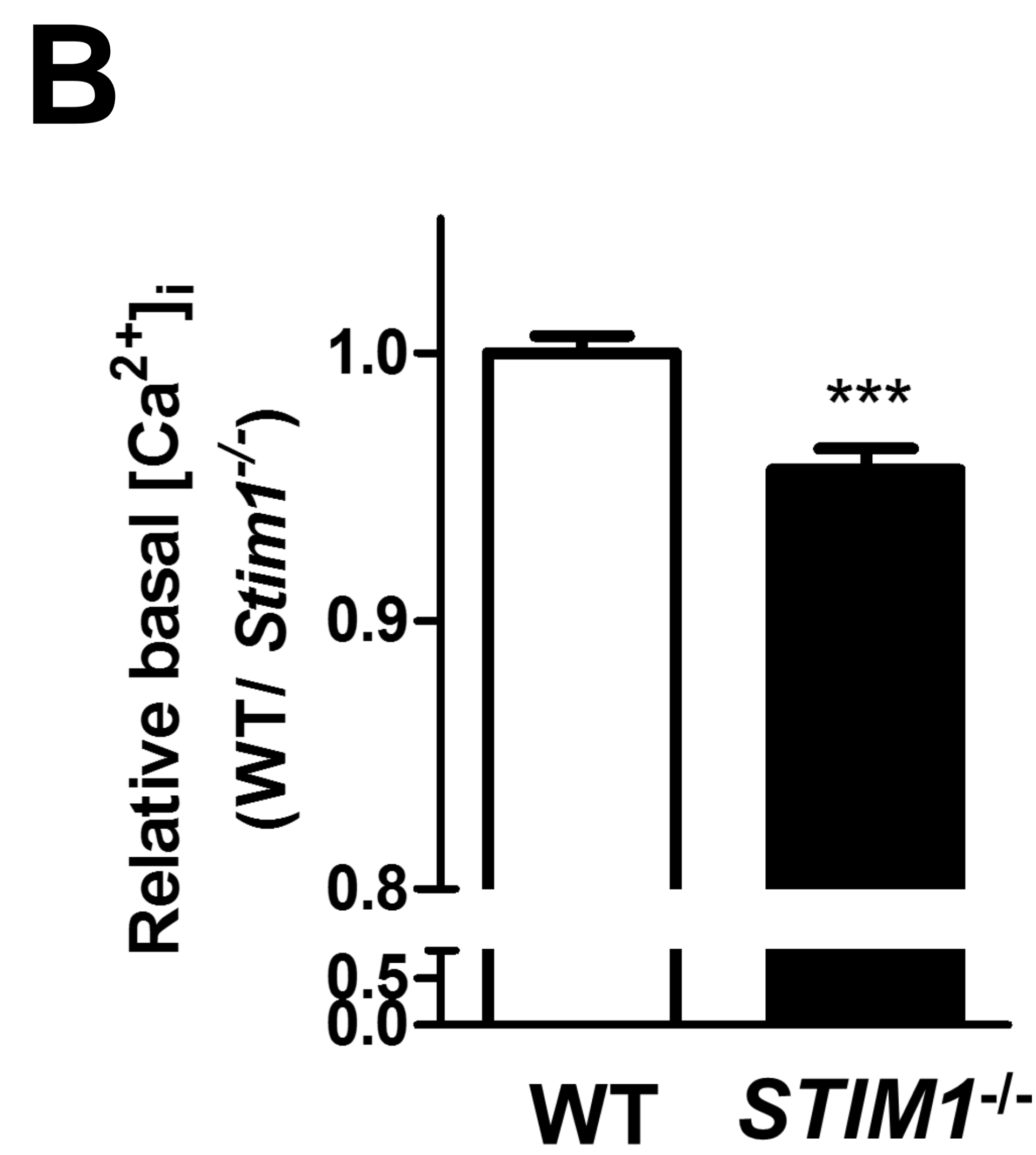
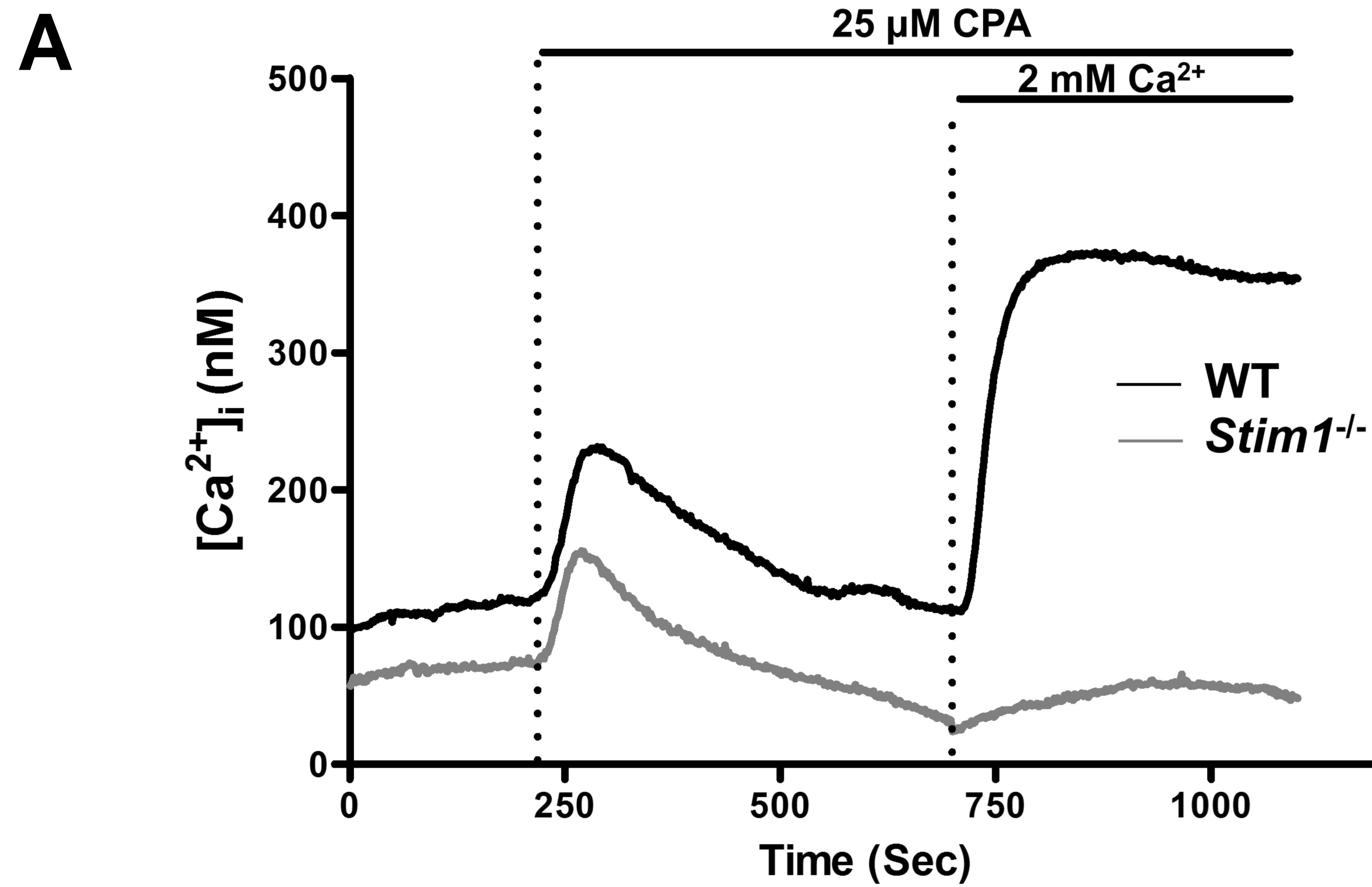
**A**



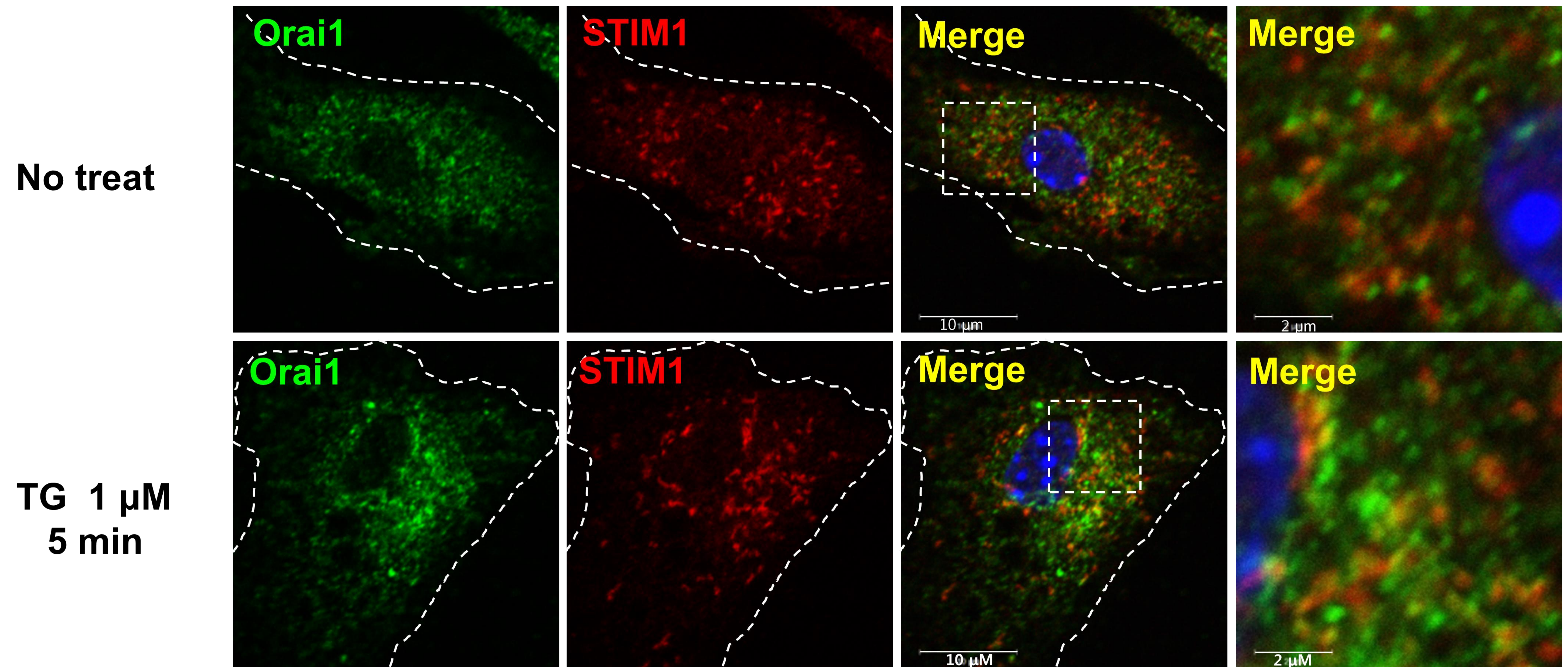
**B**



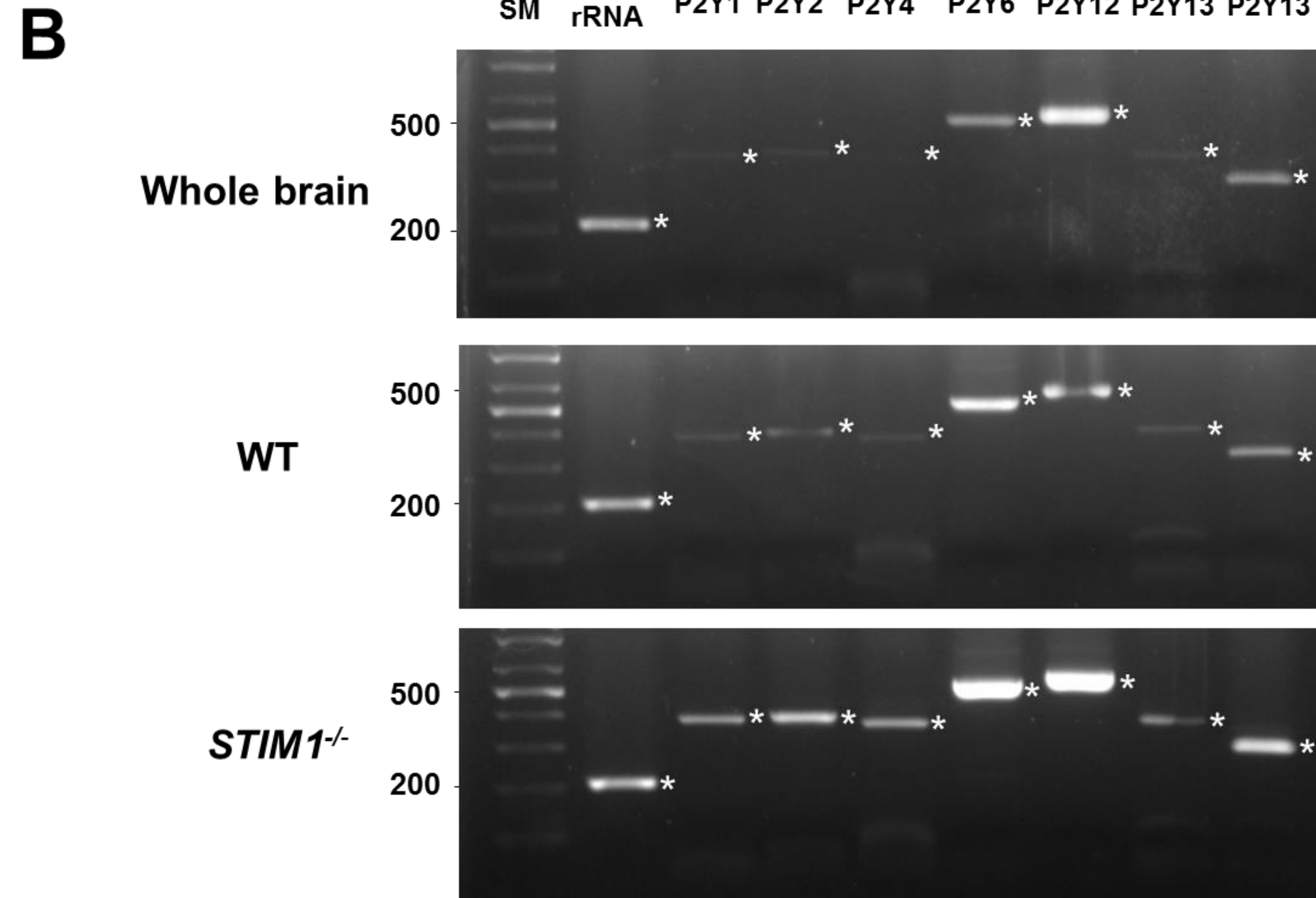
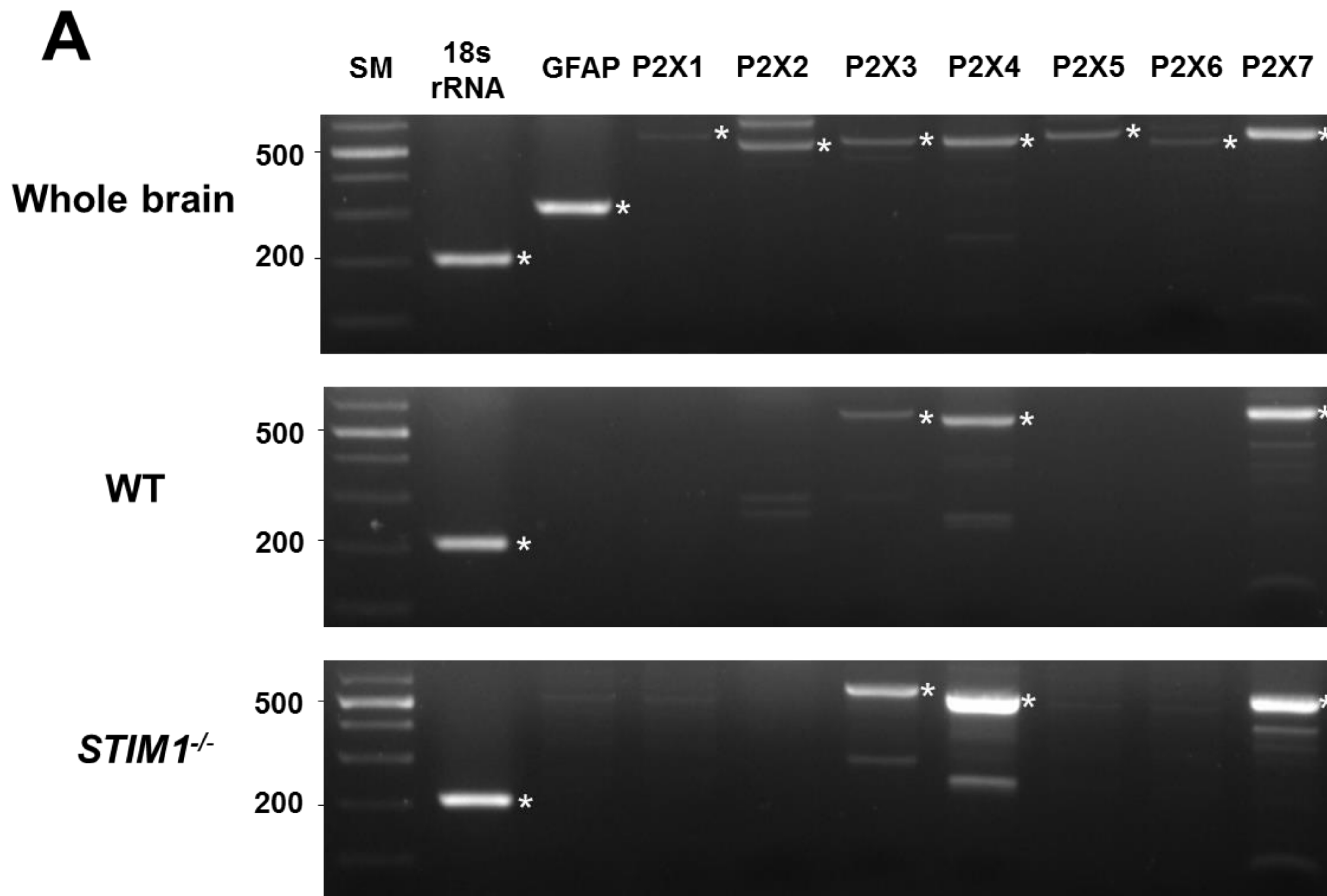
**Supplement Figure 2.** Cyclopiazonic acid (CPA) induced  $[Ca^{2+}]_i$  changes in WT and *STIM1*<sup>-/-</sup> microglia.



**Supplement Figure 3.** Thapsigargin induced Orai1 and STIM1 co-localization in WT microglia.



**Supplement Figure 4.** Expression of purinergic receptors in primary cultured microglia from wild-type and *STIM1*<sup>-/-</sup> mice.



# Supplement Table 1. Primers used in supplement figure 4.

Gene name	Primers	Product size
P2X1	S, 5'-GAAACTCAAGGGCTTGGCTGTGAC-3'	546 bp
	AS, 5'-TTCTCAGCAAGGCTTCGGAAGTCC-3'	
P2X2	S, 5'-TCGGAACACAAAGTGTGGGACGT-3	515 bp
	AS, 5'-CCCTTGTGTGCCAGTTCTGTGAAG-3	
P2X3	S, 5'-GCCGTTCACTGCTGATTATCTCC-3	533 bp
	AS, 5'-TGGAAGCGGCACTTCTTTATGTCC-3	
P2X4	S, 5'-ATGGCAGGCTGCTGCTCCGT-3	531 bp
	AS, 5'-AGCTGGCGTTGGCACACC-3	
P2X5	S, 5'-TAAAGCTGCCTCCCCTGCAAC-3	554 bp
	AS, 5'-GCAAGATCTGTGATGGCTTCATGTTC-3	
P2X6	S, 5'-AGGAACTGGGAACATGGCTTCTGC-3	497 bp
	AS, 5'-TCCTGTGGGTTCCGTTGAACAC-3	
P2X7	S, 5'-ATGCCGGCTTGCTGCAGC-3	557 bp
	AS, 5'-TCGGCGCTCCTCAAGAGT-3	
P2Y1	S, 5'-CCAGTTCTACTACCTGCCG-3	381 bp
	AS, 5'-CACACCAGCACGCTGAC-3	
P2Y2	S, 5'-GTTGTGCCTGAACGTCG-3	386 bp
	AS, 5'-CGCTGGTGGTGACGAAG-3	
P2Y4	S, 5'-CTGCAAGTTCGTCCGCTTTC-3	369 bp
	AS, 5'-GGTCGATACAGTCGCCGG-3	
P2Y6	S, 5'-ATGGAGCAGGACAATGGCACC-3	529 bp
	AS, 5'-ACACAGTGCGGTTGCGCT-3	
P2Y12	S, 5'-ATGGATGTGCCTGGTGTCAACACC-3	580 bp
	AS, 5'-CGTGCCAACTAGACCAAACCTCTGAC-3	
P2Y13	S, 5'-ATCAACACCACTGGGATGCA-3	387 bp
	AS, 5'-CCTGAACGGCATGATGATC-3	
P2Y14	S, 5'-CCACCACAGACCCTCCAAAC-3	320 bp
	AS, 5'-GAACACGATGCTGACGTACAT-3	
18S rRNA	S, 5'-TGCGCCGCTAGAGGTGAAATTC-3	200 bp
	AS, 5'-GGCATCGTTTATGGTCGGAACTAC-3	
GFAP	S, 5'-TGATGGAGCTCAATGACCG-3	315 bp
	AS, 5'-CATCTGCCTCCTGTCTATACGC-3	