Supplementary information, Figure S4

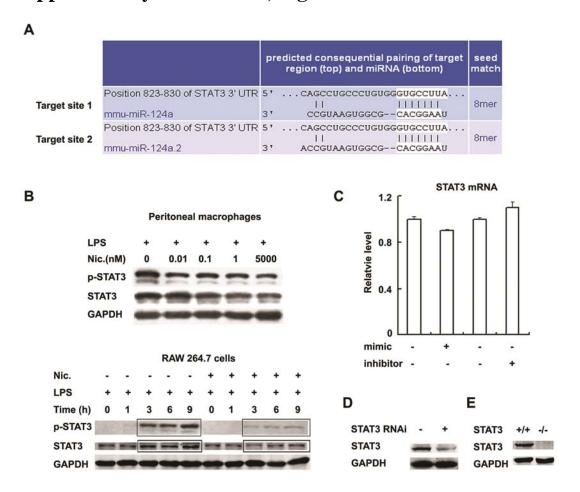


Figure S4 miR-124 is predicted to target STAT3, and nitoctine treatment reduces STAT3 and LPS-induced STAT3 phosphorylation. (A) The alignment of miR-124 and its target sites in 3'-UTR of STAT3 was from TargetScan (http://www.targetscan.org). (B) Upper panel: Western blotting of STAT3 and phosphorylated STAT3 at Y705 in peritoneal macrophages treated with 100 ng/ml LPS together with the indicated doses of nicotine for 9 h. Lower panel: Western blotting of STAT3 protein and phosphorylated STAT3 at Y705 in RAW264.7 cells stimulated with 100 ng/ml LPS in the presence or absence of nicotine (5 mM) for the indicated times. Results are representative of three independent experiments. (C) q-PCR detection of STAT3 mRNA in RAW264.7 cells transfected with miR-124 mimic or miR-124 inhibitor and

their corresponding controls for 36 h. Data represent mean \pm S.D. (n=3). (**D**) Representative western blotting of STAT3 protein in RAW264.7 macrophages transfected with control siRNA or STAT3 siRNA for 48 h (n=3). (**E**) Representative western blotting of STAT3 protein in STAT3^{+/+} MEF from E13.5 mouse embryos or STAT3^{-/-} MEF cell line (n=3).