

Supplemental information for:

Activating transcription factor 3 protects against restraint stress-induced gastrointestinal injury in mice

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Running title: ATF3 rescues stress ulcer in mice

Key words: Activating transcription factor 3, ATF3, gastrointestinal tract, intestinal leakage, tight junction, cell death, gut epithelial cell, gastric ulcer

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Figure S1 and Table S1

Figure S1

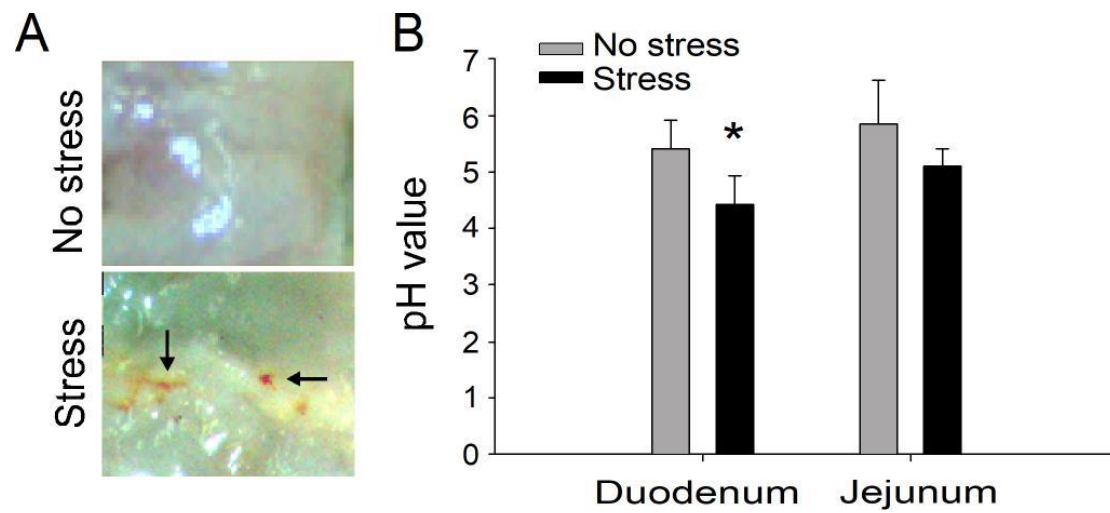


Figure S1. Stress induced GI abnormalities. (A) Representative image of hemorrhage lesions observed in GI tissue samples of stressed mice (arrows indicated regions), but not observed in tissue samples of no stress controls. (B) Duodenal tissue samples from 9-h stressed mice displayed lower pH value as compared to the no stress controls. By contrast, the analysis of the jejunum tissue samples does not display differences. $n = 12$, * $P < 0.05$, vs. no stress control groups.

Table S1**List of primers used in this report**

Gene symbol	Forward primer (5'→3')	Reverse primer (5'→3')	Product size (bp)	Temperature (°C)
GAPDH	TCAACAGCAAC TCCCACTCTTCC A	ACCCTGTTGCT GTAGCCGTATT CA	115	55
ZO-1	AGGACACCAAA GCATGTGAG	GGCATTCCTGC TGGTTACA	87	55
Cldn3	CCACTACCAGC AGTCGATGA	GGAAGGGCGA GGTTTCTTTG	211	60
Jam3	GGCTGCGACTTC GACTGTA	GAGATTCACTG CCTCTATCATG C	86	55
ATF3	AGTGACAGCAT GAGCCCTCT	GCAGCACTGA CCTGATCAAA	179	60