

Article

Heat Shock Factor 1 Directly Regulates Postsynaptic Scaffolding PSD-95 in Aging and Huntington's Disease and Influences Striatal Synaptic Density

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Supplementary Materials

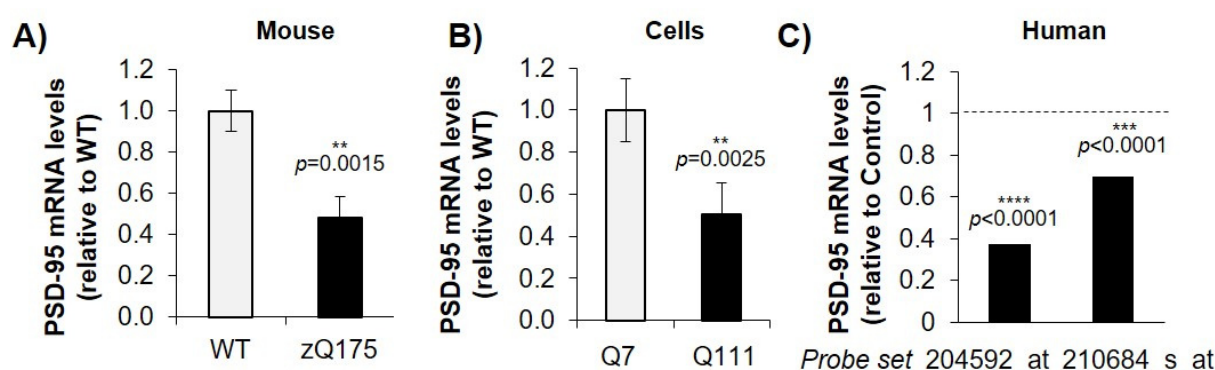


Figure S1. PSD-95 mRNA levels are decreased in HD. PSD-95 mRNA levels in (A) the striatum of WT ($n = 5$) and zQ175 ($n = 6$) mice at 6 months, (B) the immortalized striatal murine cell lines *STHdhQ7* and *STHdhQ111* and (C) in the caudate of patients with HD ($n = 44$) relative to unaffected individuals ($n = 36$) obtained from Hodges et al., [6]. Data is shown as Log2 FC from two different probe sets. Error bars denote mean \pm SEM. Unpaired Student's *t*-test in A and B. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.

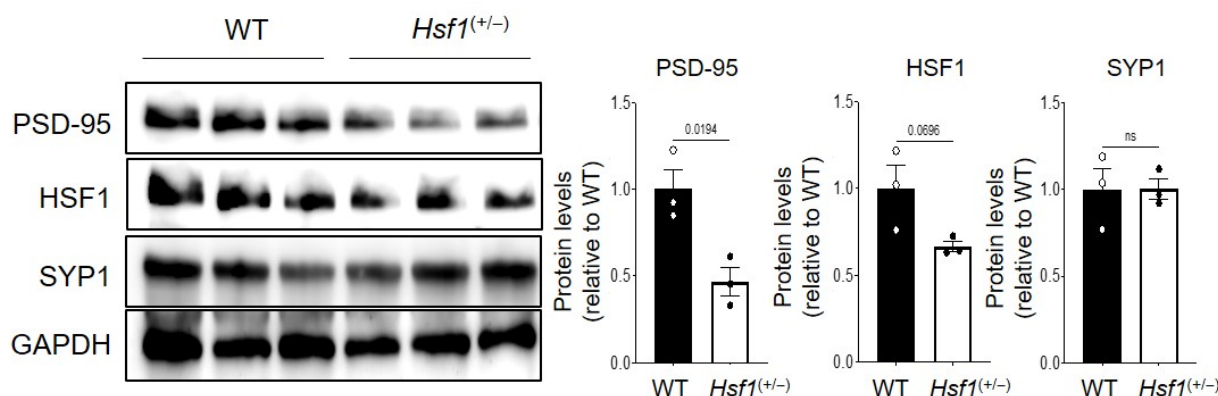


Figure S2. PSD-95 protein levels are decreased in cortices of *Hsf1*^(+/-) mice. (A) Immunoblotting in the cortex of WT *Hsf1*^(+/-) mice ($n = 3$) mice at 6 months. GAPDH is used as a loading control. (B) Protein levels measured using Image J analyses from images in A. Data is normalized to GAPDH levels and relativized to WT. Error bars denote mean \pm SEM. Unpaired Student's *t*-test. * $p < 0.05$.

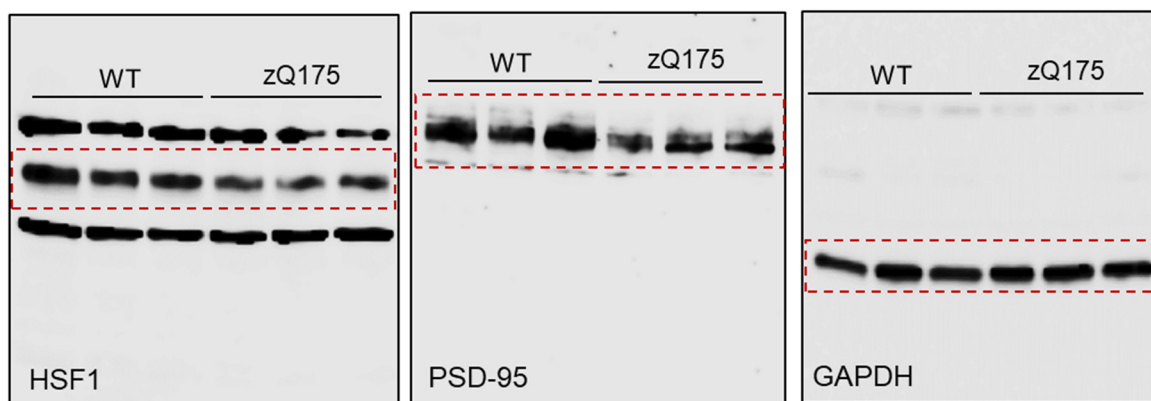
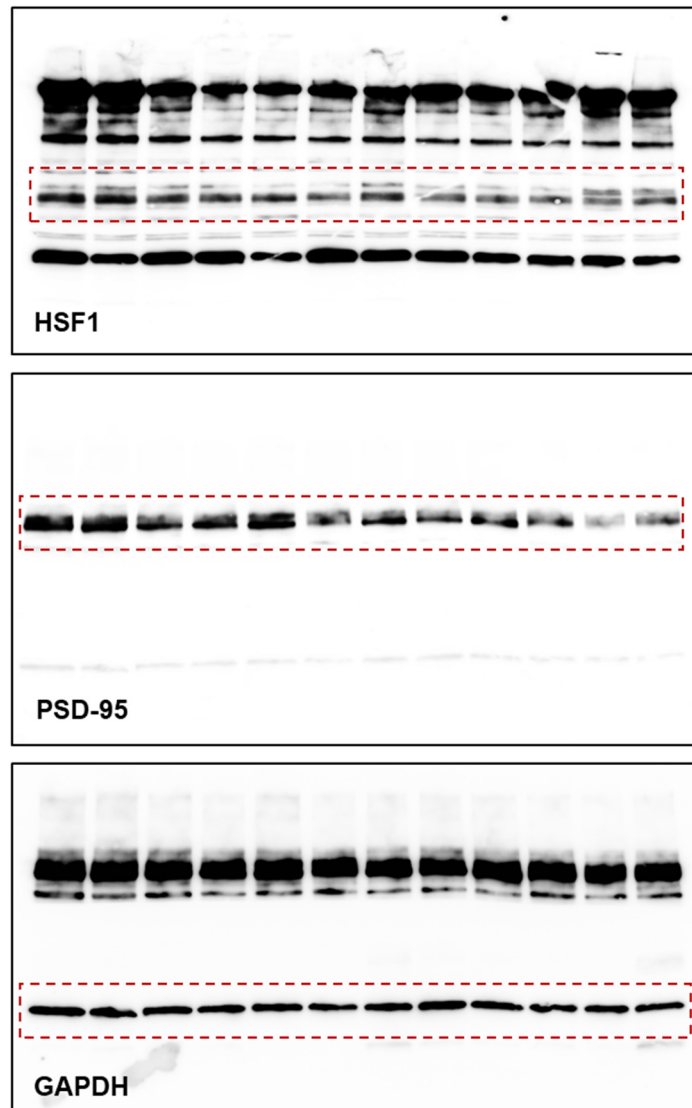


Figure S3. Uncropped blots of Figure 1A,E.

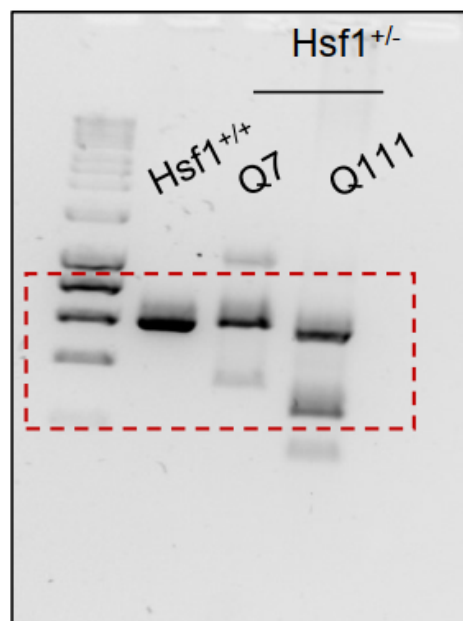


Figure S4. Uncropped blots of Figure 2A,D,E.

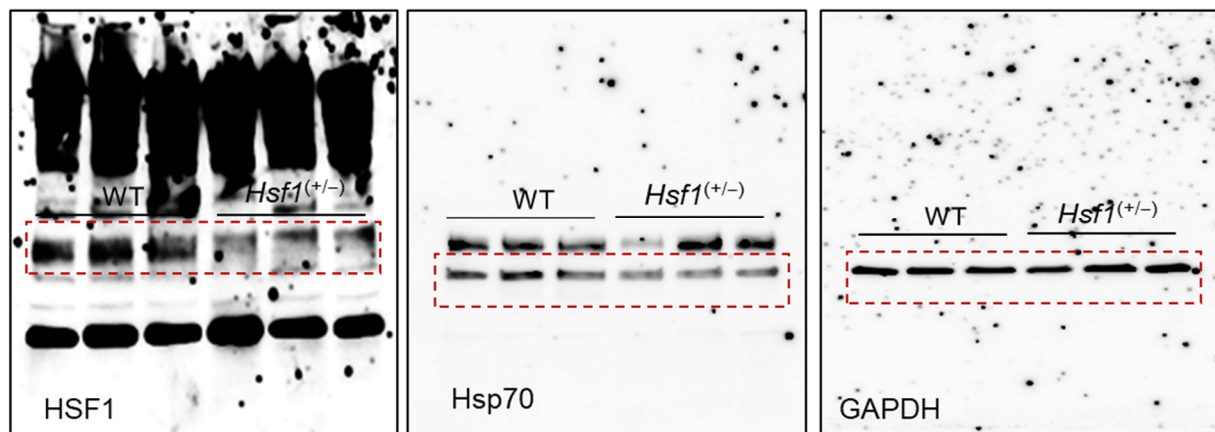


Figure S5. Uncropped blots of Figure 3A.