

Metallomics – Supporting Information

Prion Protein Expression Level Alters Regional Copper, Iron and Zinc Content in the Mouse Brain

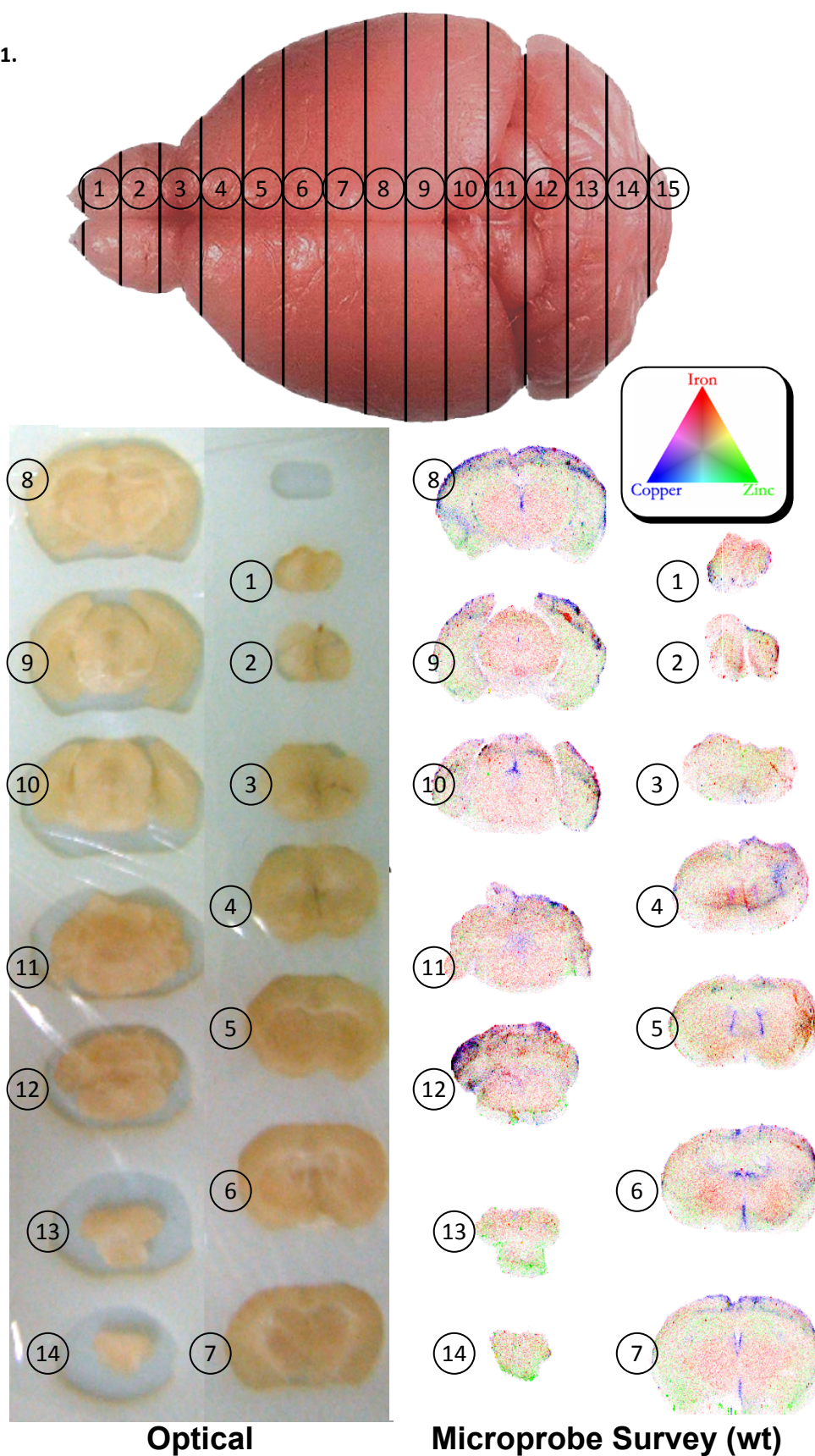
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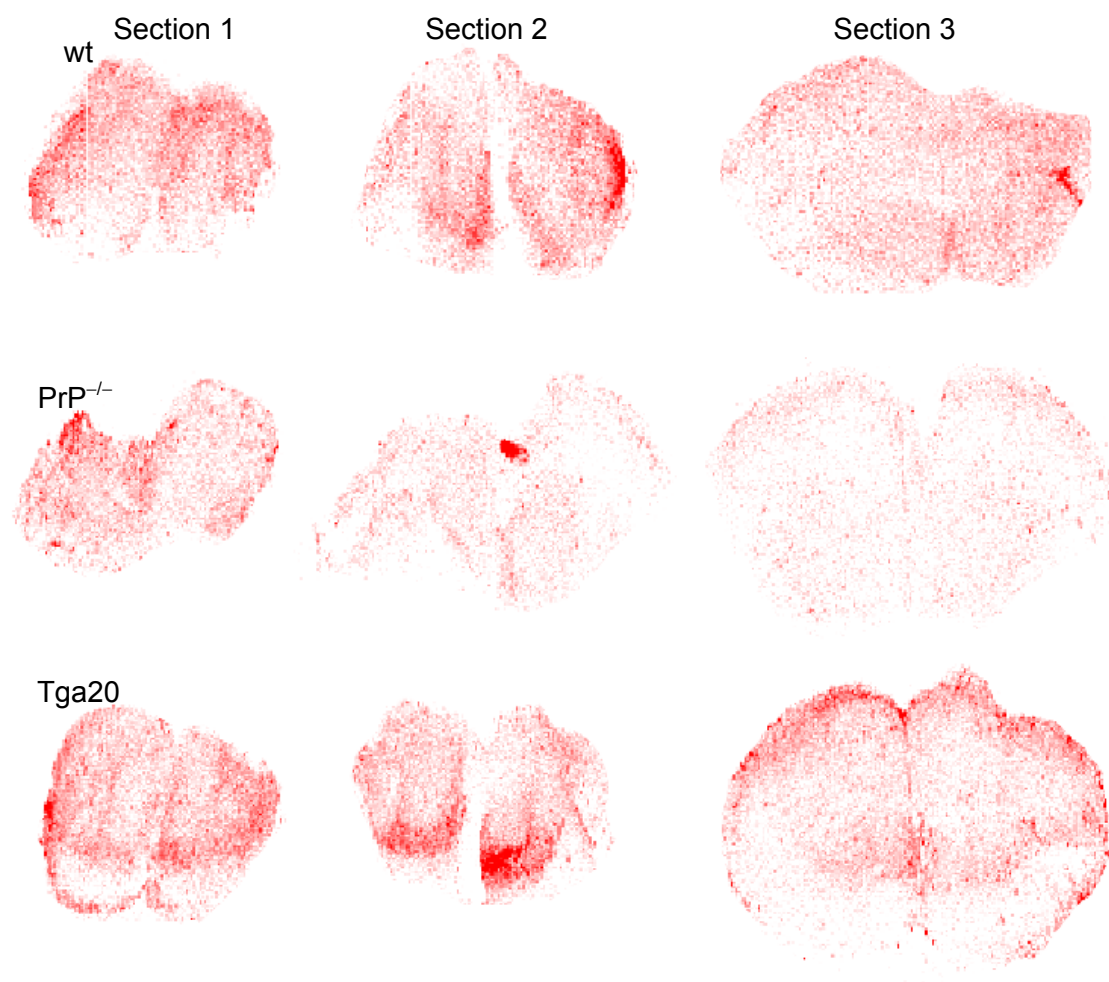
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Figure S1.



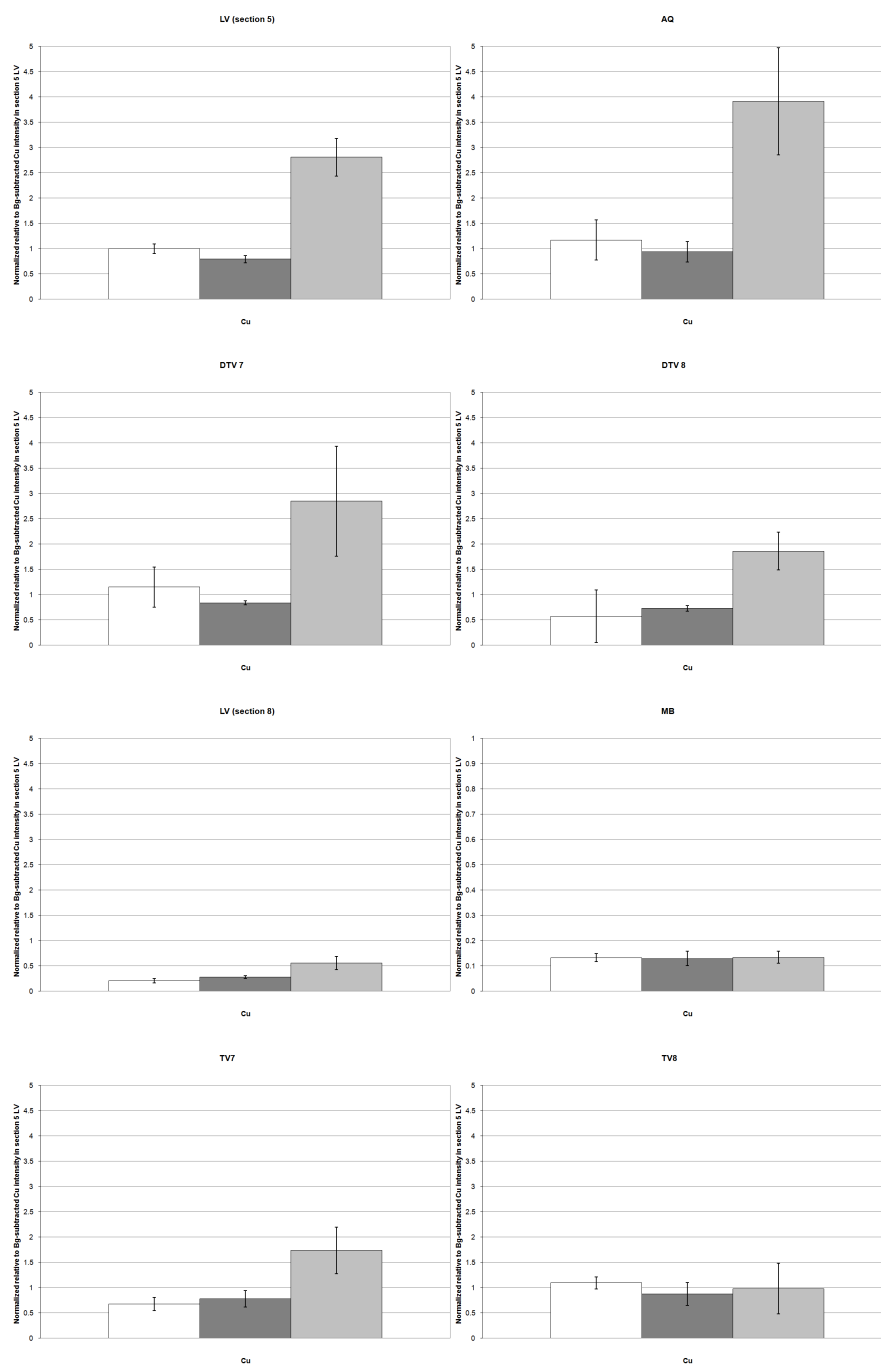
Positions and numbering of brain sections from anterior to posterior of wild-type brain (A); optical image of coronal sections (B); tri-color XRF map (C). Fe (red), Cu (blue), Zn (green).

Figure S2.



XRF maps of sections 1, 2 and 3 of the olfactory bulb and anterior olfactory nucleus showing Fe distribution (red) from wild-type (A), *Prnp*^{-/-} showing decreased Fe content overall (B) and Tga20 (C).

Figure S3.



Normalized Cu levels for selected brain regions. White column = wild-type, dark grey column = *Prnp*^{-/-}, light grey column = Tga20. Error bars indicate standard deviation of the mean.

Figure S3 (continued).

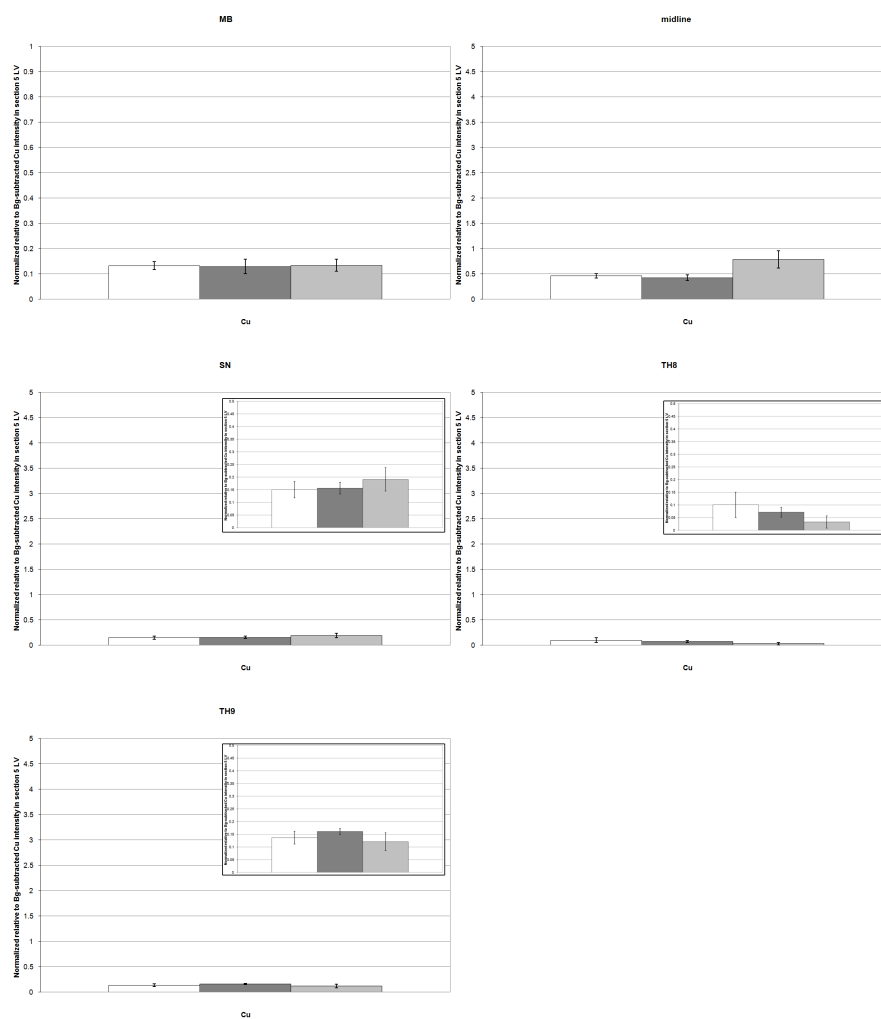
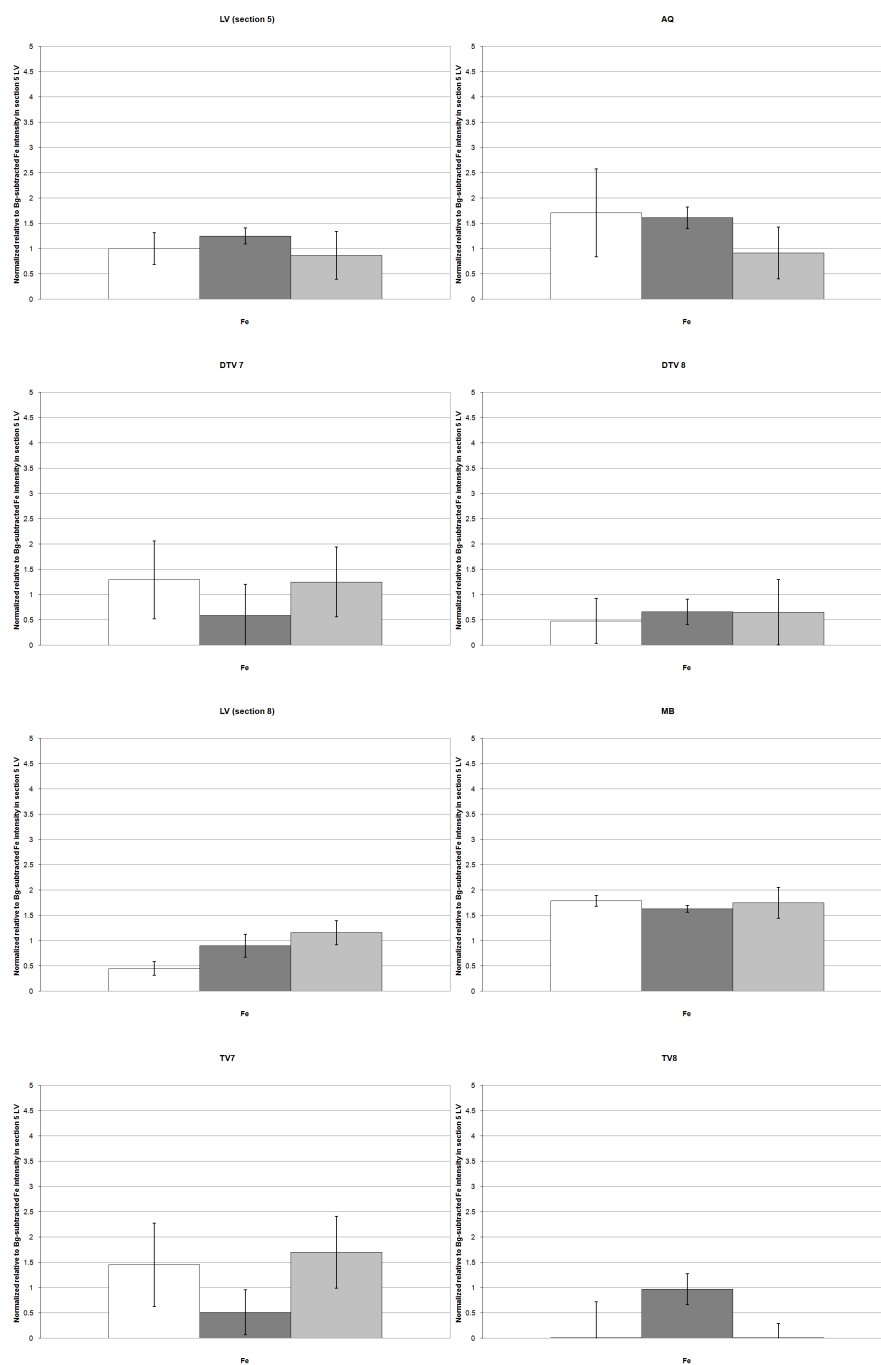


Figure S4.



Normalized Fe levels for selected brain regions. White column = wild-type, dark grey column = *Prnp*^{-/-}, light grey column = Tga20. Error bars indicate standard deviation of the mean.

Figure S4 (continued).

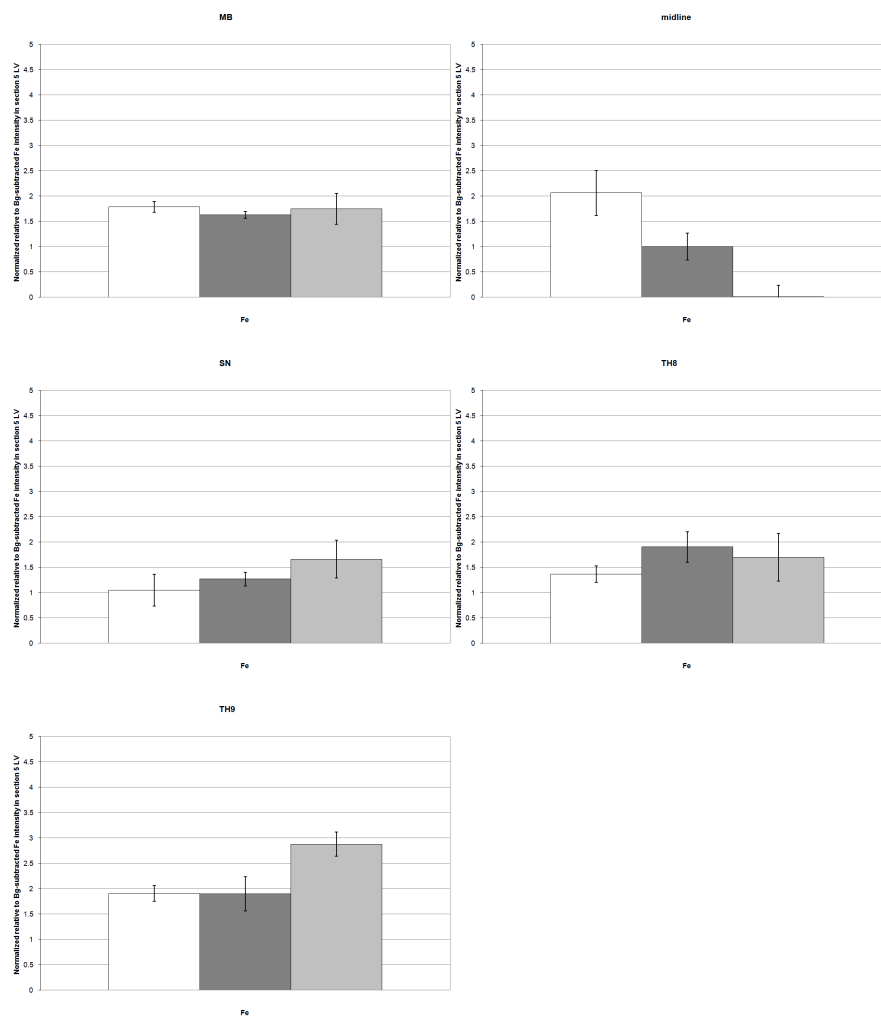
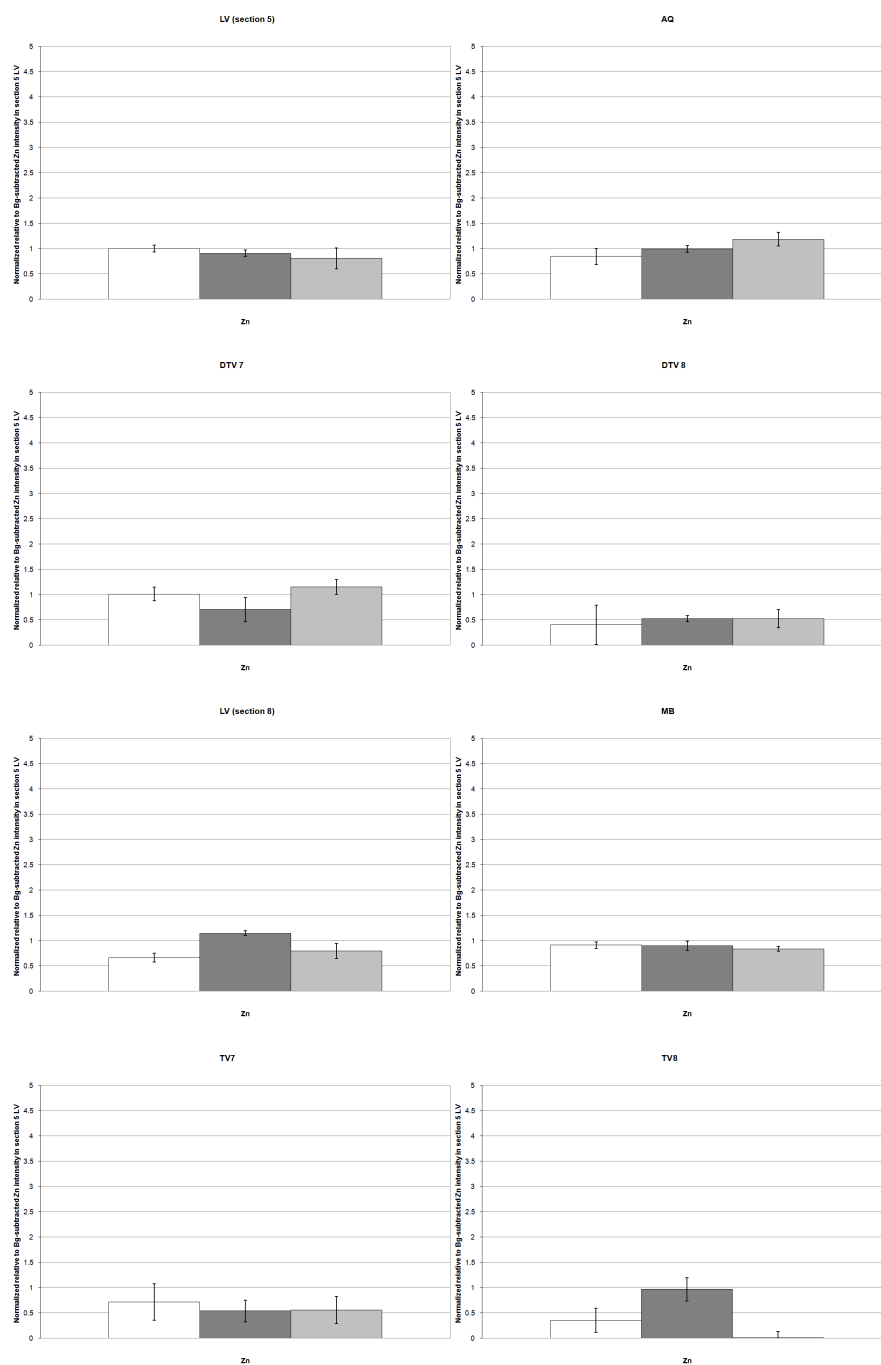


Figure S5.



Normalized Zn levels for selected brain regions. White column = wild-type, dark grey column = *Prnp*^{-/-}, light grey column = Tga20. Error bars indicate standard deviation of the mean.

Figure S5 (continued).

