

Supplementary Information for “Deficiency of GDF8 protects skeletal muscle cells from ischemia reperfusion injury”

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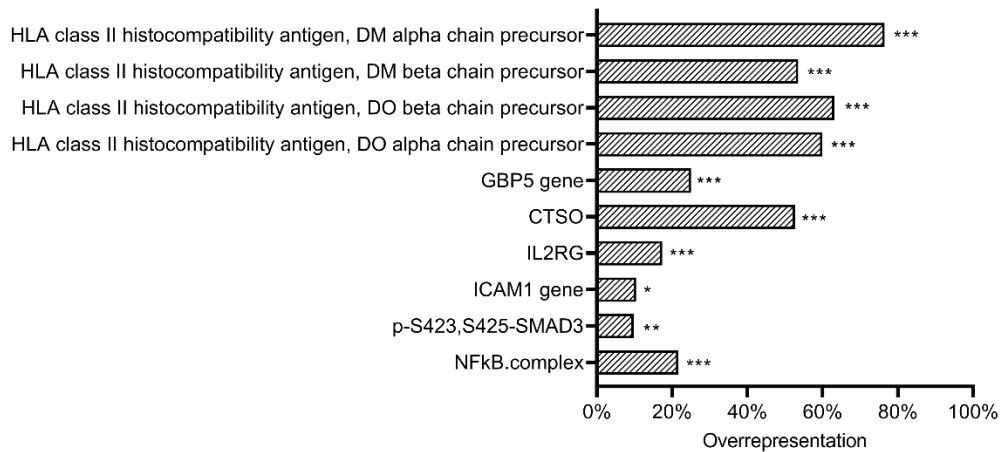
This PDF file includes:

Supplementary Figures S1 to S3

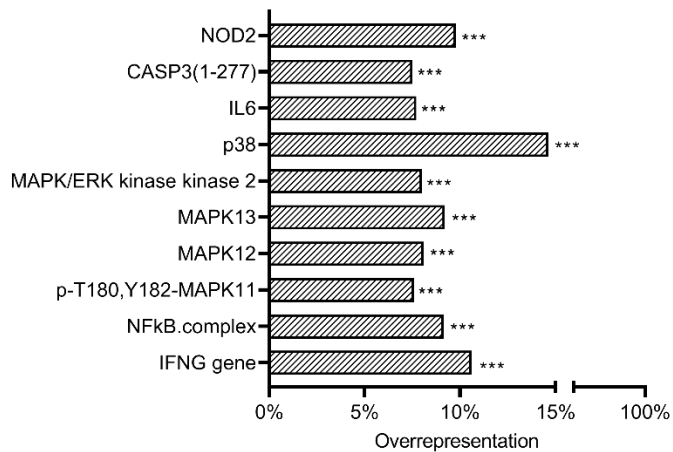
Other supplementary materials for this manuscript include the following:

Supplementary Datasets S1 to S10

A



B



C

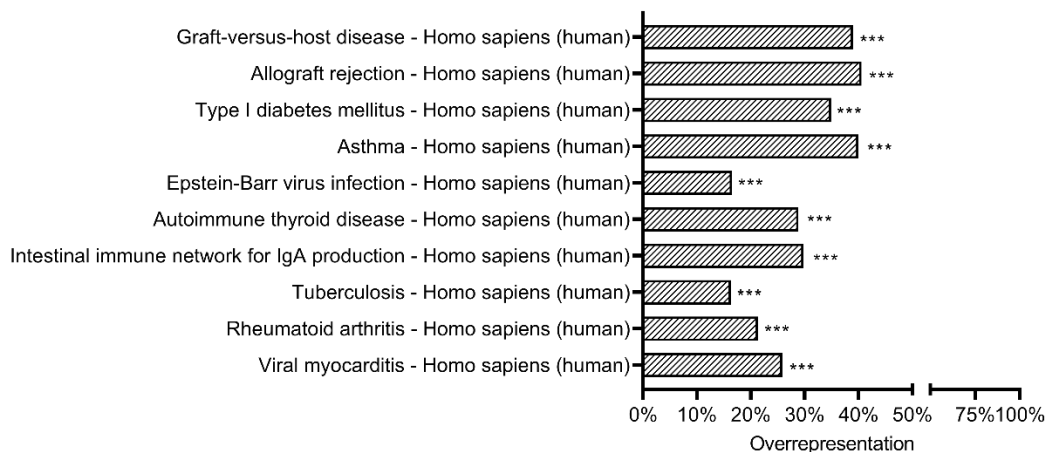
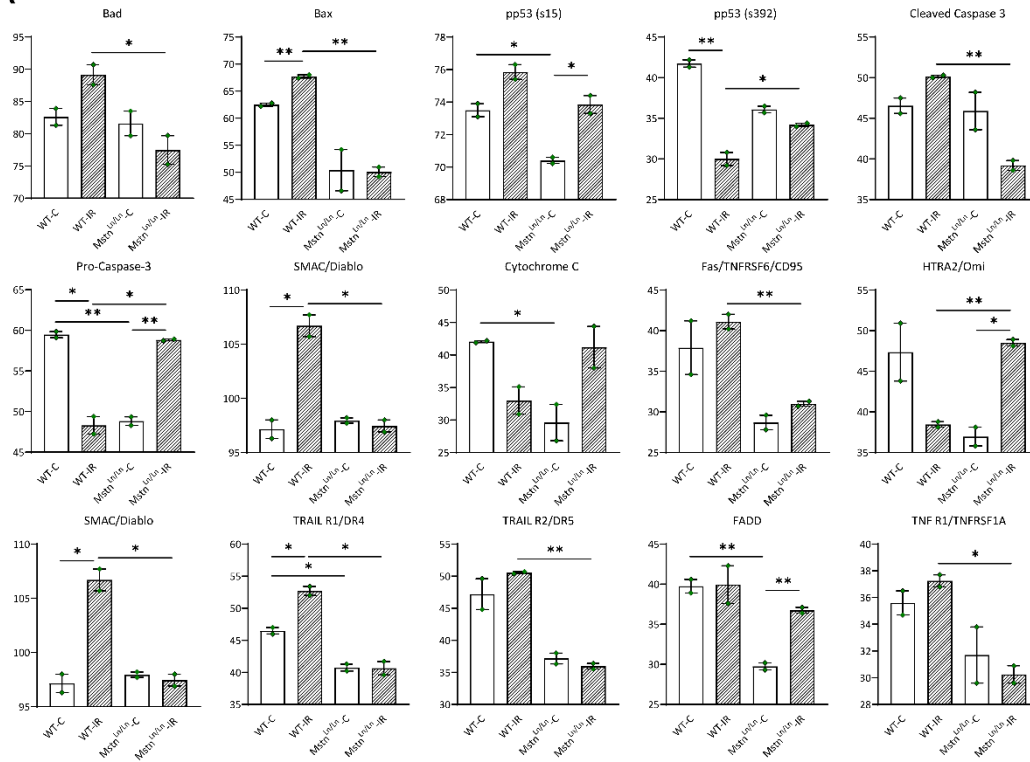
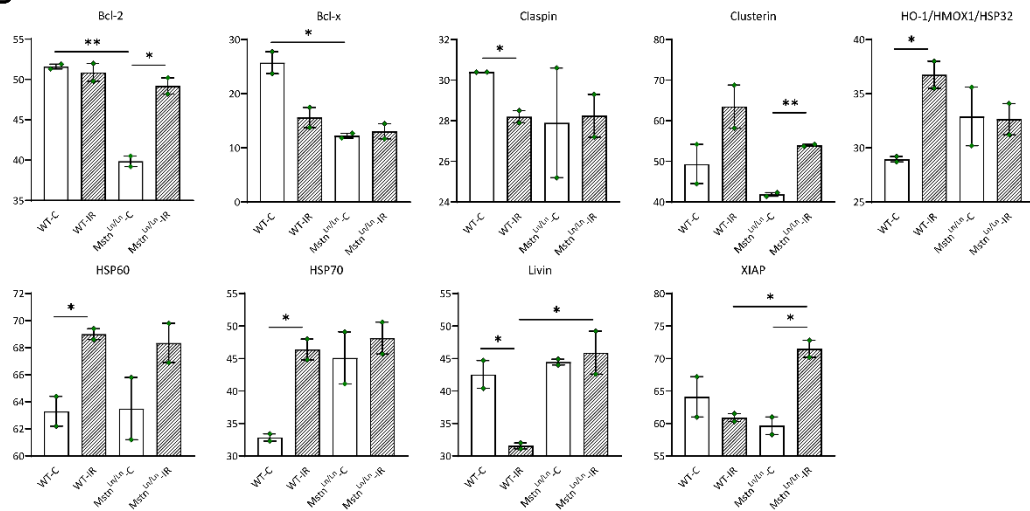


Fig. S1: Transcriptional analysis of human skeletal muscle IR. ConsensusPathDB overrepresentation analysis of DEGs in human skeletal muscle specimen harvested during free flap surgery based on (A) Network neighbourhood-based entity sets (NESTs) with radius 1, NESTs with radius 2 (B), and Kyoto Encyclopedia of Genes and Genomes (KEGG) pathway database (C). P-values were calculated using a hypergeometric distribution; * < 0.05, ** < 0.01, *** < 0.001.

A



B



C

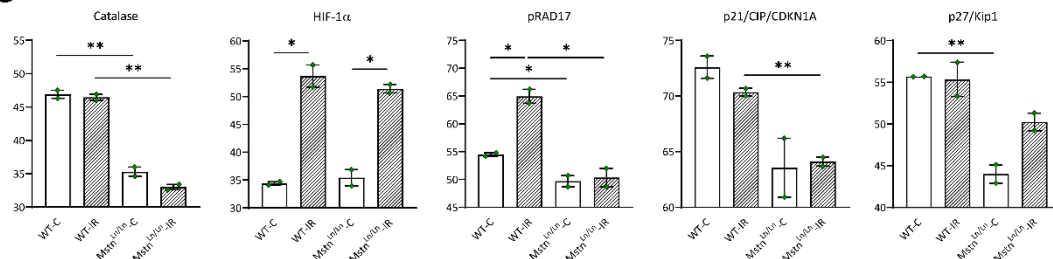


Fig. S2: Quantification of apoptotic activity in skeletal muscle specimens from C57BL/6J and C57BL/6J-*Mstn*^{Ln/Ln} mice before and after IR. (A) Proteins mainly associated with pro-apoptotic (A) or anti-apoptotic (B) activity. (C) Proteins related to cell cycle regulation and oxygenation. P-values were calculated by ANOVA followed by multiple test comparison via Tukey's post-hoc test; * < 0.05, ** < 0.01, * < 0.001.**

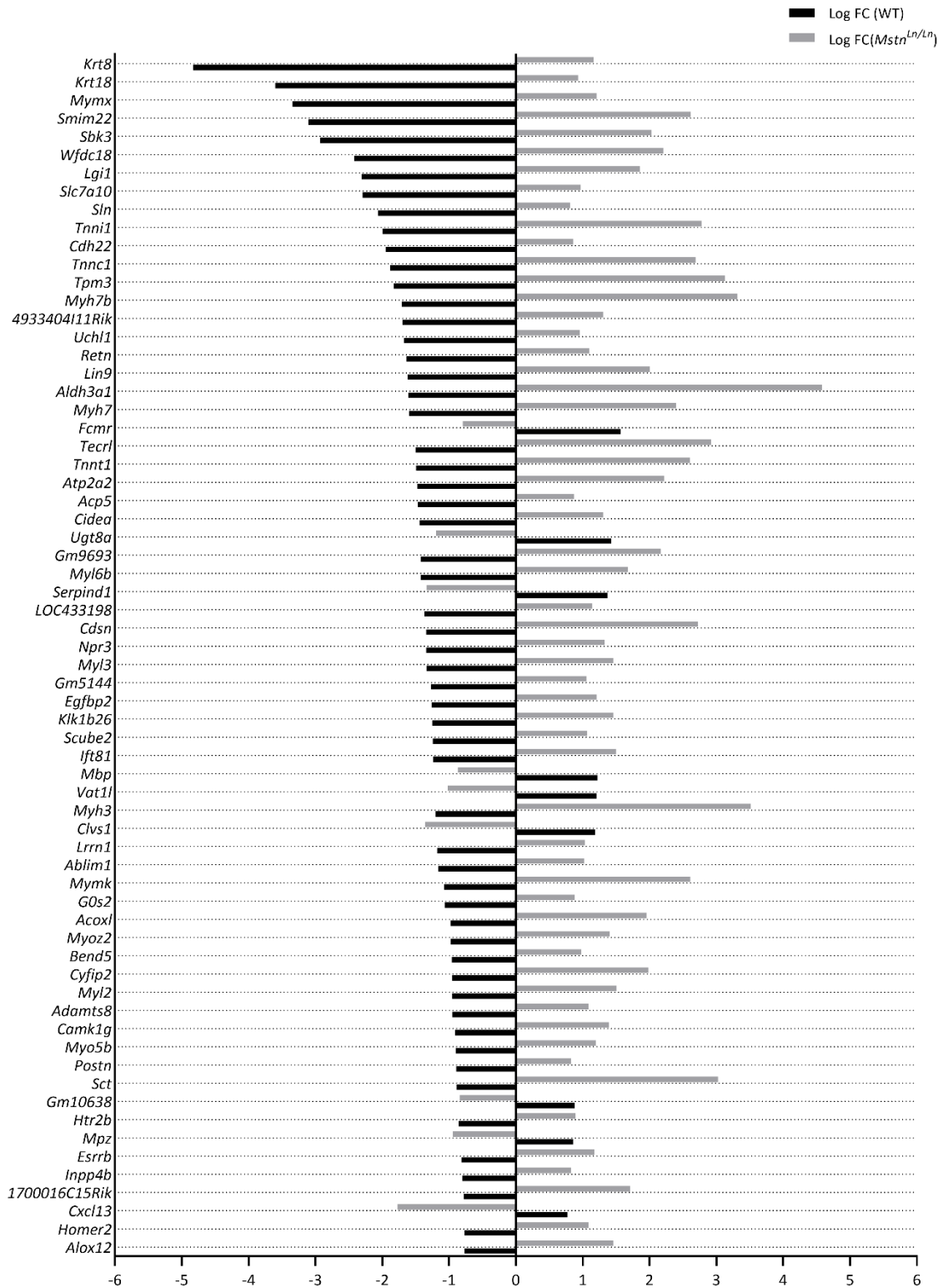


Fig. S3: Potential target proteins mediating GDF8 deficiency related IR protection in murine skeletal muscle. DEGs that are regulated differently when comparing transcriptional activity before and after IR in C57BL/6J and C57BL/6J-*Mstn*^{Ln/Ln} mice, respectively. X-Axis depicts log fold-change. FDR < 0.05 for all depicted genes (Benjamini-Hochberg).