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Contributions: N.S.C, S.G., J.W.H., A.C.K., and J.D.M. conceived the study and designed experiments. N.S.C and S.G performed all experiments. B.M. performed bioinformatics analysis of proteomic data. M.Q.R. assisted in mouse necropsies and tissue collection. M.P.J. provided support for mass spectrometry and quantitative proteomics experiments. D.E.B assisted with mouse colony establishment. P.J.S provided technical support for mouse work and iron determinations. M.D.F., W.F., J.W.H., A.C.K., and J.D.M. supervised all aspects of the project. N.S.C, S.G, and J.D.M wrote the manuscript with input from all authors. All authors read, revised, and approved the manuscript.