SUPPORTING INFORMATION

Table S1. Mutant Fet3p-supported ^{59}Fe-Uptake

	Fe^{59} Uptake (% of WT)	
Fet3p species	0 mM Citrate	20 mM Citrate
WT	100	100
D283A	100	3
E185A	0	0
D409A	100	7
E185A/D409A	0	0

Iron uptake phenotypes for each mutant were examined for citrate sensitivity relative to yeast expressing the wild type ferroxidase by monitoring cellular ^{59}Fe incorporation. All of the mutant enzymes were present at the yeast plasma membrane as viewed by the positive localization of a partner Ftr1:GFP fusion.

FIGURE S1

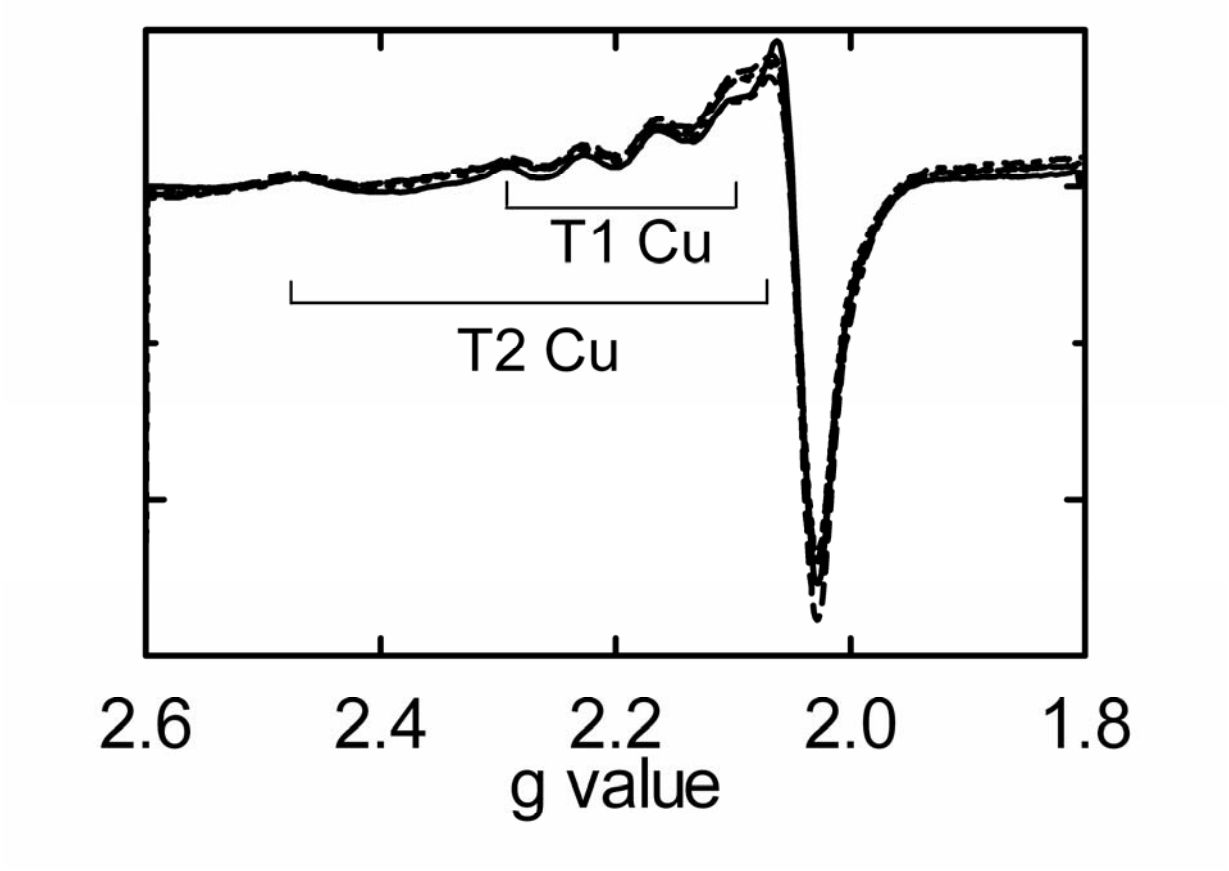

FIGURE S1. EPR spectra of Fet3 wild-type and mutant proteins. EPR spectra at 77 K for Fet3p WT (——), E185A (– – –), D283A (• • •), D409A (–• –), E185A/D409A (• • –). The $^{63/65}$Cu splitting in $g_{||}$ is indicated for the T1 and T2 Cu^{II} sites. EPR spectra were recorded under the following conditions: 9.41 GHz microwave frequency, 10 mW microwave power, 20 G modulation amplitude, 100 kHz modulation frequency, 327 ms time constant. At least 6 scans were averaged to obtain the spectra presented.