

The Belgrade Rat



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- Has a G185R mutation in DMT1/DCT1/Nramp2/SLC11A2
- Has hypochromic, microcytic anemia (like *mk* mouse)
- Resembles iron deficiency closely
- Inherited as an autosomal recessive
- Gene symbol is *b*; (normal = +); so above we have a *+/b* & a *b/b* in each photo
- GI iron uptake severely decreased
- Iron trafficking also severely depressed
- The *b/b* is on the bottom & left, respectively