

## **Iron-sulfur cluster biogenesis in mammalian cells**

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We have previously demonstrated that mammalian cells generate both mitochondrial and cytosolic isoforms of IscS, IscU, and Nfu. These cytosolic enzymes are less abundant than the mitochondrial forms. However, these enzymes form functional complexes in cytosol, and we can demonstrate that they function to rebuild cytosolic iron-sulfur clusters. Cell culture assays and enzymatic function studies of over-expressed purified proteins that demonstrate function in multiple cell compartments will be presented, and the implications for mammalian iron homeostasis will be discussed.

### **References:**

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