

## **Supplemental Data Inventory**

**Figure S1.** Additional Experiments Related to Figure 1

**Figure S2.** Additional Experiments Related to Figure 2

**Figure S3.** Requirement of BDH2 for Intracellular Iron Homeostasis in Mouse mIMCD Kidney Cells (Related to Figures 4, 5 and 6)

**Figure S4.** A Putative Yeast Homologue of Bacterial EntA has Functional Similarities to Mammalian BDH2 (Related to Figures 4 and 7)

**Figure S5.** Assessment of the Purity of Mitochondrial Preparations (Related to Figure 6)

**Figure S6.** Additional Experiments Related to Figure 7

**Figure S7.** Model for Siderophore- and 24p3-Mediated Iron Trafficking (Related to the Discussion section)

**Table S1.** Sequences for shRNAs, RT-PCR Primers and Morpholino Oligonucleotides (Related to Experimental Procedures and Supplemental Experimental Procedures)

**Table S1. Sequences for shRNAs, RT-PCR Primers and Morpholino Oligonucleotides**

<b>shRNAs</b>	<b>Sequence (5' → 3')</b>	<b>Notes</b>
Bdh2-1	ACGAGAGTGTGACTCTTTAATA	
Bdh2-2	ACTGAAAACCTTCCTAACAGA	
<b>RT-PCR primers</b>		
murine <i>Bdh2</i>	GAGAACAGATGTGTGTACAGTGCTACC	Forward
	CTAGGAAGGGCCTGTCTTCCCAGC	Reverse
<i>Gapdh</i>	ACCACAGTCCATGCCATCAC	Forward
	TCCACCACCCTGTTGCTGTA	Reverse
$\alpha$ -globin	CTCTCTGGGGAAGACAAAAGCAAC	Forward
	GGTGGCTAGCCAAGGTCACCAGCA	Reverse
$\beta$ -globin	CACAACCCAGAACAGACA	Forward
	CTGACAGATGCTCTCTTGGG	Reverse
zebrafish <i>bdh2</i>	CGTGTGTTGTTTTCACTAGTTGTC	Forward
	CCGTAGCAGTGACTTGAGCA	Reverse
<i>hbae1</i>	GGACACGATGCTCTCTCCAG	Forward
	GAGGATGTTGTGGGACAGAA	Reverse
<i>hbae3</i>	AGATCGGCCGTGAGACTCTT	Forward
	TTAGCGGTACTTCTCGGACAG	Reverse
<b>Primers for cloning riboprobes</b>		
<i>hbae1</i>	GGACACGATGCTCTCTCCAG	Forward
	GAGGATGTTGTGGGACAGAA	Reverse
<i>hbae3</i>	AGATCGGCCGTGAGACTCTT	Forward
	TTAGCGGTACTTCTCGGACAG	Reverse
<i>bdh2</i>	TATTGAAGACTATGGGTCGTCTGGA	Forward
	TGTTTGCCATTAATAAAGAAAA	Reverse
<b>Morpholino oligos</b>	<b>Sequence (5' → 3')</b>	
<i>bdh2</i>	GAAGAACTTACTGACAAGTGACAAC	Designed against the first intron to induce a mis-splice
	ACTTCCCCTCCAGACGACCCATAG	Designed against the start codon to block translation
<i>control</i>	CCTCTTACCTCAGTTACAATTTATA	