

## Product datasheet for **MC207102**

### **Slc25a37 (BC040399) Mouse Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a37 (BC040399) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc25a37
Synonyms:	1700020E22Rik; 4930513O14Rik; 4930526G11Rik; AI848481; C330015G08Rik; frascati; Mfrn; Mfrn1; mitoferrin; Mscp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC040399 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCACCCTACTCCACGATGCAGTAATGAATCCAGCAGAAGTGGTGAACAGCGCTTACAGATGTACA  
ACTCCCAGCACCAGTCAGCCTTCAGTTGTATCCGGACAGTGTGGCGGACCGAGGGTTGGGGCCTTCTA  
CAGGAGTTACACCACACAGCTGACCATGAATATCCCTCCAGTCAATCACTTCATCACCTATGAGTTT  
CTGCAGGAGCAAGTCAACCCTCGCCGGGACTACAACCCACAGTCTCACATCATCTCAGGAGGCTGGCCG  
GGGCACTGGCCGAGCTGCCACCACCCGCTGGACGTCTGCAAAACCTCCTCAACACGCAGGAGAACAT  
GGCTCTCTCCCTGGCCAACGTCAGCGGCCGGCTGTCCGGCATGGCCAATGCCTTCCGGACGGTGTACCAG  
CTCAACGGCCTTGCCGGCTATTTCAAAGGCATCCAGGCTCGAGTCATCTACCAGATGCCTTCCACCGCCA  
TCTCCTGGTCCGTTTATGAGTCTTCAAGTACATCCTTACAAAGAGGCAGCTGGAGAATCGAACTGTGA  
CTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	BC040399
Insert Size:	564 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u>BC040399</u> , <u>AAH40399</u>
<b>RefSeq Size:</b>	4000 bp
<b>RefSeq ORF:</b>	563 bp
<b>Locus ID:</b>	67712
<b>Cytogenetics:</b>	14 D2
<b>Gene Summary:</b>	Mitochondrial iron transporter that specifically mediates iron uptake in developing erythroid cells, thereby playing an essential role in heme biosynthesis. The iron delivered into the mitochondria, presumably as Fe(2+), is then probably delivered to ferrochelatase to catalyze Fe(2+) incorporation into protoporphyrin IX to make heme.[UniProtKB/Swiss-Prot Function]