

Product datasheet for MR201755

Slc25a37 (BC040399) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a37 (BC040399) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a37
Synonyms:	1700020E22Rik; 4930513O14Rik; 4930526G11Rik; AI848481; C330015G08Rik; frascati; Mfrn; Mfrn1; mitoferrin; Mscp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR201755 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCCACCCTACTCCACGATGCAGTAATGAATCCAGCAGAAGTGGTGAAACAGCGCTTACAGATGTACA
 ACTCCCAGCACCAGTCAGCCTTCAGTTGTATCCGGACAGTGTGGCGGACCGAGGGTTGGGGCCTTCTA
 CAGGAGTTACACCACACAGCTGACCATGAATATCCCCTCCAGTCAATCACTTCATCACCTATGAGTTT
 CTGCAGGAGCAAGTCAACCCTCGCCGGGACTACAACCCACAGTCTCACATCATCTCAGGAGGCTGGCCG
 GGGCACTGGCCGAGCTGCCACCACCCGCTGGACGTCTGCAAAACCCTCCTCAACACGCAGGAGAACAT
 GGCTCTCTCCCTGGCCAACGTACGCGGCCGGCTGTGGGCATGGCCAATGCCTTCCGACGGTGTACCAG
 CTCAACGGCCTTGCCGGCTATTTCAAAGGCATCCAGGCTCGAGTCATCTACCAGATGCCTTCCACCGCCA
 TCTCCTGGTCCGTTTATGAGTTCTTCAAGTACATCCTTACAAAGAGGCAGCTGGAGAATCGAACTCTGTA
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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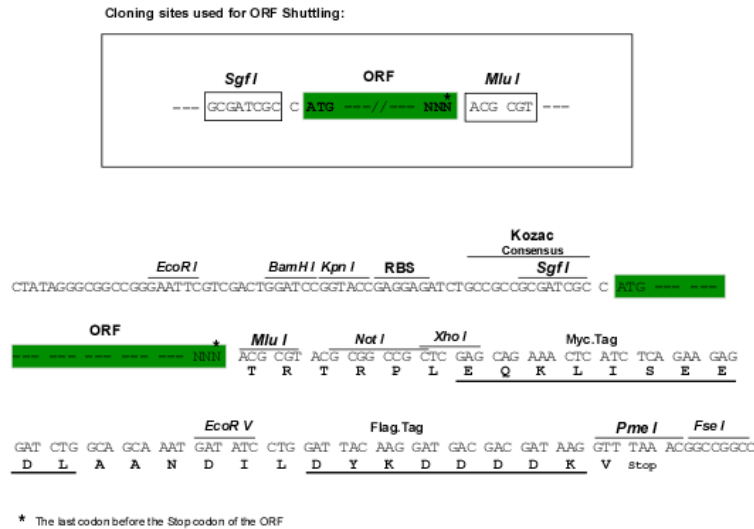
Protein Sequence: >MR201755 protein sequence
 Red=Cloning site Green=Tags(s)

MATLLHDAVMNPAEVVKQRLQMYNSQHQSAFSCIRTVWRTEGLGAFYRSYTTQLTMNIPFQSIHFITYEF
 LQEQVNPRRDYNPQSHIISGGLAGALAAAATPLDVCKTLLNTQENMALSLANVSGRLSGMANAFRTVYQ
 LNLAGYFKGIQARVIYQMPSTAISWSVYEFFKYILTKRQLENRTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC040399

ORF Size: 561 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC040399](#), [AAH40399](#)

RefSeq Size: 4000 bp

RefSeq ORF: 563 bp

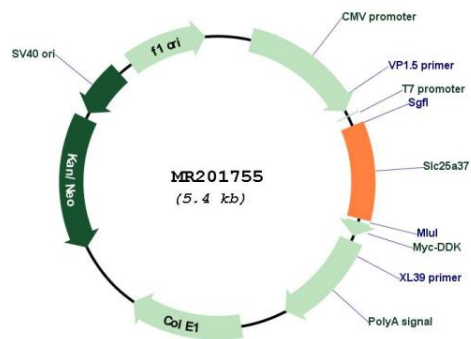
Locus ID: 67712

Cytogenetics: 14 D2

MW: 21.2 kDa

Gene Summary: 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]

Product images:



Circular map for MR201755