

Product datasheet for **MG201755**

Slc25a37 (BC040399) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a37 (BC040399) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc25a37
Synonyms:	1700020E22Rik; 4930513O14Rik; 4930526G11Rik; A1848481; C330015G08Rik; frascati; Mfrn; Mfrn1; mitoferrin; Mscp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG201755 representing BC040399 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGCCACCCTACTCCACGATGCAGTAATGAATCCAGCAGAAGTGGTGAAACAGCGCTTACAGATGTACA
ACTCCCAGCACCAGTCAGCCTTCAGTTGTATCCGGACAGTGTGGCGGACCGAGGGTTGGGGCCTTCTA
CAGGAGTTACACCACACAGCTGACCATGAATATCCCTTCCAGTCAATCACTTCATCACCTATGAGTTT
CTGCAGGAGCAAGTCAACCCTCGCCGGGACTACAACCCACAGTCTCACATCATCTCAGGAGGCTGGCCG
GGGCACTGGCCGAGCTGCCACCACCCCGCTGGACGTCTGCAAAACCTCCTCAACACGCAGGAGAACAT
GGCTCTCTCCCTGGCCAACGTCAAGCGCCGGCTGTGGGCATGGCCAATGCCTTCCGACGGTGTACCAG
CTCAACGGCCTTGCCGGCTATTTCAAAGGCATCCAGGCTCGAGTCATCTACCAGATGCCTTCCACCGCCA
TCTCTGGTCCGTTTATGAGTTCTCAAGTACATCCTTACAAAGAGGCAGCTGGAGAATCGAACTCTGTA
C

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:	>MG201755 representing BC040399 Red=Cloning site Green=Tags(s)
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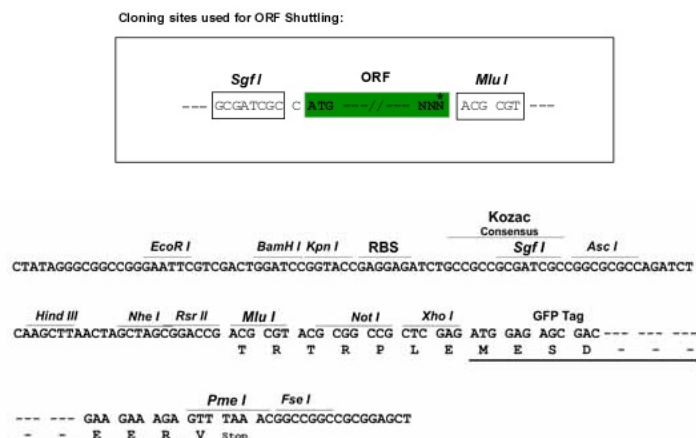
MATLLHDAVMNPAEVVKQRLQMYNSQHQSAFSCIRTVWRTEGLGAFYRSYTTQLTMNIPFQSIHFITYEF
LQEQVNPRRDYNPQSHIISGGLAGALAAAATPLDVCKTLLNTQENMALSLANVSGRLSGMANAFRTVYQ
LNLAGYFKGIQARVIYQMPSTAISWSVYEFFKYILTKRQLENRTLY

TRTRPLE - GFP Tag - V


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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

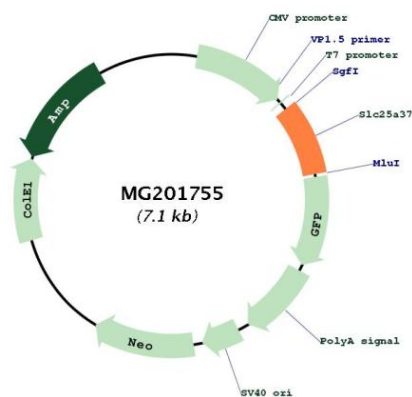
RefSeq ORF: 563 bp

Locus ID: 67712

Cytogenetics: 14 D2

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 MG201755