

## Product datasheet for SC313057

### SLC25A37 (NM\_016612) Human Untagged Clone

#### Product data:

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                     |
| Product Name:             | SLC25A37 (NM_016612) Human Untagged Clone                                               |
| Tag:                      | Tag Free                                                                                |
| Symbol:                   | SLC25A37                                                                                |
| Synonyms:                 | HT015; MFRN; MFRN1; MSC; MSCP; PRO1278; PRO1584; PRO2217                                |
| Mammalian Cell Selection: | Neomycin                                                                                |
| Vector:                   | pCMV6-Entry (PS100001)                                                                  |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                    |
| Fully Sequenced ORF:      | >SC313057 representing NM_016612.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGGAGCTGCGCAGCGGGAGCGTGGGCAGCCAGCGGTGGCGCGGAGGATGGATGGGGACAGCCGAGAT  
 GGCGGGCGCGGCAAGGACGCCACCGGTTCGGAGGACTACGAGAACCTGCCGACTAGCGCTCCGTGTCC  
 ACCCACATGACAGCAGGAGCGATGGCCGGGATCCTGGAGCACTCGGTATGTACCCGGTGGACTCGGTG  
 AAGACACGAATGCAGAGTTTGTGTCAGATCCCAAAGCCAGTACACAAGTATCTACGGAGCCCTCAAG  
 AAAATCATGCGGACCGAAGGCTTCTGGAGGCCCTTGCAGGCGTCAACGTCATGATCATGGGTGCAGGG  
 CCGGCCCATGCCATGTATTTGCCTGCTATGAAAACATGAAAAGGACTTTAAATGACGTTTTCCACCAC  
 CAAGGAAACAGCCACCTAGCCAACGGGATAGCTGGGAGTATGGCCACCCTGCTCCACGATGCGGTAATG  
 AATCCAGCAGAAGTGGTGAAGCAGCGCTTGAGATGTACAACCTCGCAGCACCGGTGAGCAATCAGCTGC  
 ATCCGGACGGTGTGGAGGACCGAGGGGTGGGGGCCCTTCTACCGGAGCTACACCACGCAGCTGACCATG  
 AACATCCCCTTCCAGTCCATCCACTTCATCACCTATGAGTTCTGCAGGAGCAGGTCAACCCCCACCGG  
 ACCTACAACCCGAGTCCCATCATCTCAGGCGGGCTGGCCGGGGCCCTCGCCGCGGCCGCCACGACC  
 CCCCTGGACGCTGTGAAGACCCTTCTGAACACTCAGGAGAACGTGGCCCTCTCGCTGGCCAACATCAGC  
 GGCCGGCTGTGGGTATGGCCAATGCCTTCCGGACGGTGTACCAGCTCAACGGCCTGGCCGGCTACTTC  
 AAAGGCATCCAGGCGGTGTCTATCTACCAGATGCCCTCCACCGCATTTCTTGGTCTGTCTATGAGTTC  
 TTCAAGTACTTTCTACCAAGCGCCAGCTGGAATCGAGCTCCATACTAA  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |           |
|--------------------|-----------|
| Restriction Sites: | SgfI-MluI |
| ACCN:              | NM_016612 |
| Insert Size:       | 1017 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>OTI Annotation:</b>        | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.                                                                                                                                                                                                                                                      |
| <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>                | <a href="#">NM_016612.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq Size:</b>           | 4857 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1017 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 51312                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q9NYZ2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 8p21.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | mito_carr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>MW:</b>                    | 37.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>SLC25A37 is a solute carrier localized in the mitochondrial inner membrane. It functions as an essential iron importer for the synthesis of mitochondrial heme and iron-sulfur clusters (summary by Chen et al., 2009 [PubMed 19805291]).[supplied by OMIM, Jan 2011]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript and encodes the longest isoform (1).</p>                                                                                                                        |