

## Product datasheet for MR216562

### Slc25a21 (NM\_001167976) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Slc25a21 (NM\_001167976) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Slc25a21  
**Synonyms:** 9930033G19Rik; A630030I10; BB158148  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >MR216562 representing NM\_001167976  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTGGGCTTGTGTGAATACACATCATGATGTTGATACAAGTGAAGTACCCATTGTCTTCATCAGCTCTT  
ACCCCAATCAGGAATCCGGTCTGTAGAAATTTGCCTGATGCATCCTCTCGATGTGGTAAAACAGGTT  
CCAGGTGCAGAGAAGTGAACAGACCCACAAAGTTATAGAACTGAAGAGGCAGCTTCCAGATGATCTTC  
CGAACAGAGGGGTTGTTGGCTTTTACAAGGAATTATCCACCAATTTTAGCTGAAACACCAAAAAGAG  
CAGTCAAGTTTTCTACCTTTGAGCTGTACAAGAAATTTCTGGGATATATGCACTATCACCAGGGCTGAC  
ATTTCTCATCGCTGGCTTAGGATCGGGACTAACAGAAGCTGTCGTGGTTAACCTTTTCGAGGTGGTAAAA  
GTTGGCTTGAAGTCAATCGGAACTTGTCAAAGAGCAACCATCTACTTTTGCTTATGCAAGACAAATCA  
TTAAGAAGGAAGGCTTGGGGTCCAGGGCCTCAACAAAGGATTGACAGCAACTCTGGGACGTCACGGAA  
TTTCAACATGGTTATTTTGGCTTCTACCACAACGTCAAAAATATTATCCATCCAGTAAGGATCCAACC  
TTGGAGTTTTTGAGAAAATTTGGGATTGGTTTTGTCTCAGGACAATGGGCTCAGTGTAAACATCCCCT  
TTGATGTTGCAAAGAGTCGGATCCAAGGGCCCGCCAGTTCCTGGAGAGATCAAGTACCGAAGCTGCTT  
CAAAACAATGGAGATGATCTACCGGAAGAAGGATTTTAGCCTTATACAAAGGCCTGGTCCCTAAGGTG  
ATGAGACTTGACCAGGTGGTGGGTGATGTTGCTGGTGTATGAATACACCTATGCATGGCTGCAGGAAA  
ACTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR216562 representing NM\_001167976  
 Red=Cloning site Green=Tags(s)

MWACVNTHHDVDTSESPIVFISSYPNQESGLVEICLMHPLDVVKTRFQVQRSVTDPOQSYRTVVRGSGFQMIF  
 RTEGLFGFYKGIIPPILAETPKRAVKFSTFELYKKFLGYMSLSPGLTFLIAGLGSGLTEAVVVNPFVVK  
 VGLQVNRNLFKEQPSTFAYARQIIKKEGLGFQGLNKL TATLGRHGIFNMVYFGFYHNVKNIIPSSKDPT  
 LEFLRKFVIGFVSGTMSVFNIPFDVAKSRIQGPQVPVGEIKYRSCFKTMEMIYREEGILALYKGLVPKV  
 MRLGPGGGVMLLVYEITYAWLQENW

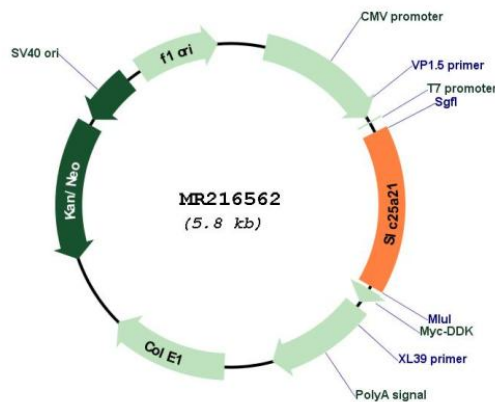
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001167976

**ORF Size:** 915 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001167976.1</a> , <a href="#">NP_001161448.1</a>
<b>RefSeq Size:</b>	2166 bp
<b>RefSeq ORF:</b>	918 bp
<b>Locus ID:</b>	217593
<b>Cytogenetics:</b>	12 C1
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	Transports C5-C7 oxodicarboxylates across the inner membranes of mitochondria. Can transport 2-oxoadipate, 2-oxoglutarate, adipate, glutarate, and to a lesser extent, pimelate, 2-oxopimelate, 2-aminoadipate, oxaloacetate, and citrate (By similarity).[UniProtKB/Swiss-Prot Function]