

Product datasheet for **MG216562**

Slc25a21 (NM_001167976) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slc25a21 (NM_001167976) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slc25a21
Synonyms: 9930033G19Rik; A630030I10; BB158148
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG216562 representing NM_001167976
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGCTTGTGTGAATACACATCATGATGTTGATACAAGTGAGTCACCCATTGTCTTCATCAGCTCTT
ACCCCAATCAGGAATCCGGTCTGTAGAAATTTGCCTGATGCATCCTCTCGATGTGGTAAAACAGGTT
CCAGGTGCAGAGAAGTGAACAGACCCACAAAGTTATAGAACTGAAGAGGCAGCTTCCAGATGATCTTC
CGAACAGAGGGGTTGTTGGCTTTTACAAGGGAATTATCCACCAATTTAGCTGAAACACCAAAAAGAG
CAGTCAAGTTTTCTACCTTTGAGCTGTACAAGAAATTTCTGGGATATATGCACTATCACCAGGGCTGAC
ATTTCTCATCGCTGGCTTAGGATCGGGACTAACAGAAGCTGTCGTGGTTAACCCTTTCGAGGTGGTAAAA
GTTGGCTTGCAAGTCAATCGGAACCTGTTCAAAGAGCAACCATCTACTTTTGCTTATGCAAGACAAATCA
TTAAGAAGGAAGGCTTGGGGTCCAGGGCCTCAACAAAGGATTGACAGCAACTCTGGGACGTACCGGAAT
TTTCAACATGGTTTATTTGGCTTCTACCACAACGTCAAAAATATTATCCATCCAGTAAGGATCCAACC
TTGGAGTTTTTGAGAAAATTTGGGATTGGTTTTGTCTCAGGGACAATGGGCTCAGTGTAAACATCCCCT
TTGATGTTGCAAAGAGTCGGATCCAAGGGCCCCAGCCAGTTCCTGGAGAGATCAAGTACCGAAGCTGCTT
CAAAAATGGAGATGATCTACCGGAAGAAGGGATTTTAGCCTTATACAAAGGCCTGGTCCCTAAGGTG
ATGAGACTTGGACCAGGTGGTGGGTGATGTTGCTGGTGTATGAATACACCTATGCATGGCTGCAGGAAA
ACTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216562 representing NM_001167976
 Red=Cloning site Green=Tags(s)

MWACVNTHHDDVTSESPIVFISSYPNQESGLVEICLMHPLDVVKTRFQVQRSVTDPOQSYRTVIRGSGFQMIF
 RTEGLFGFYKGIIPPILAETPKRAVKFSTFELYKKFLGYMSLSPGLTFLIAGLGSGLTEAVVVNPFVVK
 VGLQVNRNLFKEQPSTFAYARQIIKKEGLGFQGLNKL TATLGRHGIFNMVYFGFYHNVKNIIPSSKDPT
 LEFLRKFVIGFVSGTMSVFNIPFDVAKSRIQGPQVPVGEIKYRSCFKTMEMIYREEGILALYKGLVPKV
 MRLGPGGGVMLLVYEITYAWLQENW

TRTRPLE - GFP Tag - V

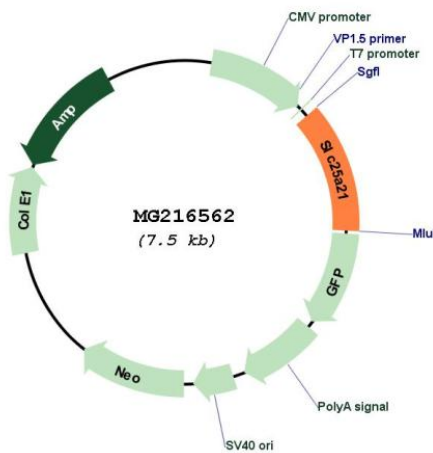
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001167976

ORF Size: 915 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:	<ol style="list-style-type: none">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.
RefSeq:	NM_001167976.1 , NP_001161448.1
RefSeq Size:	2166 bp
RefSeq ORF:	918 bp
Locus ID:	217593
Cytogenetics:	12 C1
Gene Summary:	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]