

Product datasheet for **MR217182**

Slc25a25 (NM_001164358) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a25 (NM_001164358) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a25
Synonyms:	1110030N17Rik; MCSC; mKIAA1896
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR217182 representing NM_001164358
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTACAGACTGTGGCACTTTCTGTCTAGCTTTCTCCCTAGAGCTGAGTGCCAGGACTCCAGAGAGG
 GCATCGACCATGGAGTCAGAGGTAAGTCTAGGCCCTGCTCGGGGAGACCAGATGTCCACCTTTTTGGGGAA
 AAAAAACGGAAGGGCTGAGGCCACGAAAAAGACCCACCATCTTGCTGGTGGTCCGACCTGCAGAACAG
 TTTCTAAGAAAAATTGTGCAAGCAGGTGACAAGGACCTTGATGGGCAACTGGACTTTGAAGATTTGTAC
 ATTACCTCAAGATCATGAGAAAAACTGAGGCTGGTGTCAAGAGTCTGGACAAAAAGAATGATGGTGC
 AATCGATGCTCAGGAGATCATGCAGTCCCTGCGGGACCTGGGTGTCAAGATCTCGAACAGCAGGCGGAG
 AAGATTCTTAAGAGAATACGGACGGGCCACTTCTGGGGCCCTGTCACCTACATGGATAAAGATGGCAGCA
 TGACCATCGACTGGAACGAGTGGAGGGACTACCACCTCCTGCACCCTGTGGAGAACATCCCGGAGATCAT
 CCTGTACTGGAAGCACTCGACGATCTTCGATGTCGGTGAAGTCTGACAGTCCCAGATGAGTTCACAGTG
 GAGGAGAGGCAGACGGGGATGTGGTGGAGGCACCTGGTGGCAGGAGGTGGGGCAGGGGCAGTTCCAGAA
 CCTGCACTGCCCCCTGGACAGACTGAAGGTGCTCATGCAGGTCCATGCCTCCCGCAGCAACAACATGTG
 CATCGTAGGTGGATTACACAGATGATTCGAGAAGGGGGAGCCAAGTCACTCTGGCGGGCAACGGCATC
 AATGTCCTCAAAATTGCCCTGAGTCGGCCATCAAAATTCATGGCATAAGAGCAGATGAAACGGCTTGTGC
 GTAGTGATCAGGAGACGCTGAGGATCCACGAAAGGCTTGTGGCAGGCTCCTTGGCCGGAGCCATTGCCCA
 GAGTAGCATCTACCAATGGAGGTTCTGAAGACCCGAATGGCCCTGCGGAAAACAGGACAGTACTCCGGC
 ATGCTGGACTGTCCAGGAGGATCTTGGCTAAAGAGGGTGTAGCTGCCTTCTACAAGGCTACATCCCA
 CCAGCGCTACGCAGTAAACAGTGCAGACCCGGTGTTCGTGCTCCTGGCCTGTGGTACTATCTCCAGT
 ACTTGTGGCCAGCTGGCCAGCTACCCACTAGCCCTGGTCAAGACCCGGATGCAGGCACAAGCCTCCATTG
 AGGGCGCACCTGAGGTAACCATGAGCAGCCTCTTCAAACAGATTCTGCGGACTGAGGGGGCCTTTGGGCT
 CTACCGGGGGCTGGCCCCAACTTCATGAAGGTGATCCCGGCTGTGAGCATCAGCTACGTGGTCTACGAA
 AACCTGAAGATCACCTGGGCGTGCAGTCTCGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217182 representing NM_001164358
 Red=Cloning site Green=Tags(s)

MLQTLWHFLSSFLLPRAECQDSREGIDHGVGRGTQAPARGDQMSTFLGKQNGRAEATEKRPTILLVVGPAEQ
 FPKKIVQAGDKLDGQLDFEEFVHYLQDHEKKLRLVFKSLDKKNDGRIDAQEIMQSLRDLGVKISEQQA
 KILKIRITGHFWGPVYMDKNGTMTIDWNEWRDYHLLHPVENIPEIILYWKHSTIFDVGENLTPDEFTV
 EERQTGMWWRHLVAGGGAGAVSRTCTAPLDRLKVLQVHASRSNNMCIVGGFTQMIREGGAKSLWRNGI
 NVLKIAPESAIFMAYEQMKRLVGSQDETLEIHERLVAGSLAGIAQSSIYPMEVLKTRMALRKTGGQYSG
 MLDCARRILAKEGVAAFYKGYIPNMLGIIPYAGIDLAVYETLKNTWLQRYAVNSADPGVFLLACGTISS
 TCGQLASYPLALVRTRMQAASIEGAPEVTMSSLFKQILRTEGAFGLYRGLAPNFMKVIPAVSISYVYVE
 NLKITLVQSR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

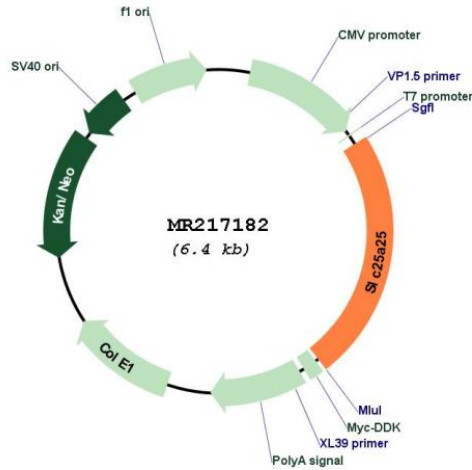
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001164358

ORF Size: 1503 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:	<u>NM_001164358.1, NP_001157830.1</u>
RefSeq Size:	3581 bp
RefSeq ORF:	1506 bp
Locus ID:	227731
UniProt ID:	<u>A2ASZ8</u>
Cytogenetics:	2 B
MW:	56.5 kDa
Gene Summary:	Calcium-dependent mitochondrial solute carrier. Mitochondrial solute carriers shuttle metabolites, nucleotides, and cofactors through the mitochondrial inner membrane. May act as a ATP-Mg/Pi exchanger that mediates the transport of Mg-ATP in exchange for phosphate, catalyzing the net uptake or efflux of adenine nucleotides into or from the mitochondria (By similarity).[UniProtKB/Swiss-Prot Function]