

Product datasheet for **MG225065**

Slc25a13 (NM_001177572) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a13 (NM_001177572) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc25a13
Synonyms:	A1785475; Ctrn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG225065 representing NM_001177572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCCGATCCAGCTGAGCTTAAAGCAATATTTTTGAAGT
 ATGCGAGCATTGAAAAAATGGTGAATTTTTATGTCTCCTCATGACTTTGTCACTCGGTATTTGAATAT
 TTTTGGAGAAAGCCAGCCCAACCCGAAAACCTGTGGAACTTTTAAGTGGTGTAGTGGATCAGACCAAAGAT
 GGGTTAATATCCTTCCAAGATTTGTAGCCTTTGAGTCTGTCTGTGTGCTCCGGATGCCTTGTTTATGG
 TGGCGTTCCAGCTGTTTGACAAAGCTGGCAAAGGAGAGGTTACTTTTGAGGATGTCAAGCAAATTTTTGG
 ACAGACTACAATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAGCTACATTTGGAAAA
 GAAAGAAAAGGCACCTTACATATGCGGAGTTCCTCAGTTTTTTGTTGGAATACAGTTGGAGCACGCGA
 AGCAAGCCTTTGTCAACGAGACAATGCCAAGACAGGCAAAGTCTCAGCCATTGACTTCCGGGACATCAT
 GGTCCCATCCGTCCCCATGTCTGACGCCTTTTGTGAGGAATGTCTAGTAGCTGCTGCTGGAGGCACT
 AGGTCCCATCAAGTTAGCTTCTCCTATTTAATGGATTTAATTCGCTCCTTAAACAACATGGAACCTATTA
 GGAAGATCTACAGTACTCTGGCTGGCAACAGGAAAGACGTGGAGGTGACTAAGGAGGAGTTCGCTTTGGC
 AGCCCAGAAGTTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTTATATGAG
 CCGAGGGGGCGCATGACCTTAGCAGACATTGAGCGGATCGCCCTCTAGAGGAAGGAATGTTACCCTTCA
 ACTTGGCCGAGGCCAGAGGCAGAAGGCCCTCGGGTGTGCTGCTCGGCCCTTTCTTCTGCAGCTCGCAGA
 GTCAGCCTACAGTTTGGACTGGGTTCTATTGCTGGAGCTGTGCGAGCCACTGCCGTGTATCCTATCGAT
 CTTGTAAGACTCGAATGCAGAACCAGAGATCAACCGCTCTTTTGTGGCGAGCTCATGTATAAAAAACA
 GTTTTGACTGCTTTAAGAAGGTGCTCCGCTACGAAGGCTTCTTTGGACTGTACCGAGTTTGTGCCACA
 GTTACTGGGAGTCGCCCCGGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGAGATAAATTTATG
 CACAAAGATGGCTCCGTCCCCTTTTGGCAGAGATTTTGTGGAGGCTGTGCTGGAGGCTCCCAAGTGA
 TTTTACAAAATCCTTTAGAGATTGTGAAAATCCGCTTACAAGTGGCCGGAGAGATCACCCTGGCCCCCG
 AGTCAGCGCCCTGTCCGTGGTACGAGACCTGGGGTTCTTTGGCATCTACAAGGGCGCCAAAGCATGCTTC
 CTGAGGGACATTCCTTTCTCAGCCATCTACTTCCCGTGTATGCCACGTGAAGGCTTCTTTGCAAATG
 AAGACGGGCAGGTGAGCCCCGGAAGCCTGCTCTTAGCCGGTGTATTGCTGGTATGCCTGCGGCATCTTT
 AGTGACCCCTGTGATGTTATCAAGACTAGATTACAGGTGGCTGCCCGGGCTGGCCAAACCACTTACAAC
 GGTGTGACCGACTGCTTCAGAAAGATACTTCGAGAAGAGGGCCCCAAAGCATTGTGAAAGGAGTTGCTG
 CTCGTGCTTCCGCTCCTCGCCCCAGTTTGGTGTACCTTGTTCAGTATGAATTGCTGCAGCGGTGGTT
 CTATGTCGATTTTGGAGGCGTGAAGCCCGTGGGATCTGAGCCGGTTCCTAAATCCCGGATTACTCTGCC
 GCTCCCAATCCTGACCACGTAGGGGGCTACAACTGGCCGTTGCCACATTCGAGGGATTGAGAACAAAT
 TTGGACTTTACCTACCTCTTTAAGCCATCAGCATCTACCTCAAAAGTACTGCTGGGGACTCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225065 representing NM_001177572
 Red=Cloning site Green=Tags(s)

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MAAAKVALTKRADPAELKAIIFLKYASIEKNGEFFMSPHDFVTRYLNIFGESQPMPKTVELLSGVVDQTKD
GLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQIFGQTTIHQHIFPNWSEFVQLHFGK
ERKRHLTYAFTQFLLEIQLEHAKQAFVQRDNKTKGKVSADFRDIMVTIRPHVLPFVEECLVAAAGGT
RSHQVSFSYFNGFNSSLNMMELIRKIYSTLAGNRKDVEVTKEEFALAAQKFGQVTPMEVDILFQLADLYE
PRGRMTLADIERIAPLEEGMLPFNLAEARQKASGDAARPFLLQLAESAYRFGLSIAGAVGATAVYPID
LVKTRMQNRSTGSFVGELMYKNSFDCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDVFRDKFM
HKDGSVPLLAEIFAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAACF
LRDIPFSAIYFPCYAHVKASFANEDGQVSPGSLLLAGAIAGMPAASLVTPADVIKTRLQVAARAGQTTYN
GVTDCFRKILREEGPKALWKGAARVFRSSPQFGVTLTYELLQRWFYVDFGGVKPVGSEPVKSRITLP
APNPDHVGYYKLAVATFAGIENKFGLYLPLFKPSASTSKVTAGDS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001177572

ORF Size: 2025 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.

RefSeq: [NM_001177572.1](#), [NP_001171043.1](#)

RefSeq Size: 3130 bp

RefSeq ORF: 2028 bp

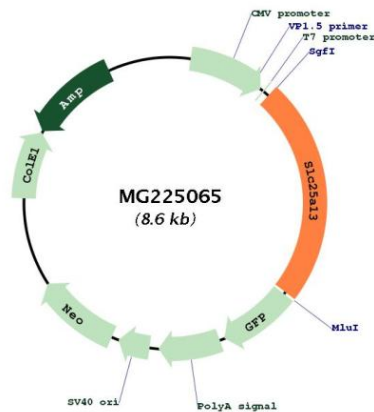
Locus ID: 50799

UniProt ID: [Q9QXX4](#)

Cytogenetics: 6 A1

Gene Summary: Mitochondrial and calcium-binding carrier that catalyzes the calcium-dependent exchange of cytoplasmic glutamate with mitochondrial aspartate across the mitochondrial inner membrane. May have a function in the urea cycle.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225065