

Product datasheet for **MG224237**

Slc25a13 (NM_015829) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a13 (NM_015829) 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:

>MG224237 representing NM_015829
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCCGATCCAGCTGAGCTTAAAGCAATATTTTTGAAGT
 ATGCGAGCATTGAAAAAATGGTGAATTTTTATGTCTCCTCATGACTTTGTCACCTCGGTATTTGAATAT
 TTTTGGAGAAAGCCAGCCCAACCCGAAAACCTGTGGAACTTTTAAGTGGTGTAGTGGATCAGACCAAAGAT
 GGGTTAATATCCTTCCAAGATTTGTAGCCTTTGAGTCTGTCTGTGCTCCGGATGCCTTGTTTATGG
 TGGCGTTCCAGCTGTTTGACAAAGCTGGCAAAGGAGAGGTTACTTTTGGAGATGTCAAGCAAATTTTTGG
 ACAGACTACAATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAGCTACATTTGGAAAA
 GAAAGAAAAGGCACCTTACATATGCGGAGTTCACCTCAGTTTTTGTGGAAATACAGTTGGAGCACGCGA
 AGCAAGCCTTTGTCAACGAGACAATGCCAAGACAGGCAAAGTCTCAGCCATTGACTTCCGGGACATCAT
 GGTCCCATCCGTCCCCATGTCTGACGCCTTTTGTGGGAATGTCTAGTAGCTGCTGCTGGAGGCACT
 AGGTCCCATCAAGTTAGCTTCTCCTATTTAATGGATTTAATTCGCTCCTTAAACAACATGGAACCTATTA
 GGAAGATCTACAGTACTCTGGCTGGCAACAGGAAAGACGTTGGAGGTGACTAAGGAGGAGTTCGCTTTGGC
 AGCCCAGAAGTTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTTATATGAG
 CCGAGGGGGCGCATGACCTTAGCAGACATTGAGCGGATCGCCCCCTAGAGGAAGGAATGTTACCCCTTCA
 ACTTGGCCGAGGCCAGAGGCAGAGAAGGCCCTCGGGTGTGCTGCTCGGCCCTTTCTTCTGCAGCTCGC
 AGAGTCAGCCTACAGTTTGGACTGGGTCTATTGCTGGAGCTGTGCGAGCCACTGCCGTGTATCCTATC
 GATCTTGTAAAGACTCGAATGCAGAACCAGAGATCAACCGCTCTTTTGTGGCGAGCTCATGTAAAAA
 ACAGCTTTGACTGCTTTAAGAAGGTGCTCCGCTACGAAGGCTTCTTTGGACTGTACCGAGGTTTGTCTGCC
 ACAGTTACTGGGAGTCGCCCGGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGAGATAAATTT
 ATGCACAAAGATGGCTCCGTCCTTCTTGGCAGAGATTTTGTGGAGGCTGTGCTGGAGGCTCCCAAG
 TGATTTTCAAAAATCCTTTAGAGATTGTGAAAATCCGCTTACAAGTGGCCGGAGAGATCACCCTGGCCC
 CCGAGTCAGCGCCCTGTGCGGTGTACGAGACCTGGGGTCTTTGGCATCTACAAGGGCGCCAAAGCATGC
 TTCCTGAGGGACATTCCTTCTCAGCCATCTACTTCCCGTGTATGCCACGTTGAAGGCTTCTTTTGCAA
 ATGAAGACGGGCAGGTCAGCCCCGAAGCCTGCTTTAGCCGGTGTATTGCTGGTATGCCTGCGGCATC
 TTTAGTGACCCCTGCTGATGTTATCAAGACTAGATTACAGGTGGCTGCCCGGCTGGCCAAACCACTTAC
 AACGGTGTGACCGACTGCTTCAAGAAAGATACTTCGAGAAGAGGGCCCAAAGCATTGTGGAAAGGAGTTG
 CTGCTCGTGTCTCCGCTCCTCGCCCAGTTTGGTGTACCTTGTACGTATGAATTGCTGCAGCGGTG
 GTTCTATGTGATTTTGGAGGCGTGAAGCCCGTGGGATCTGAGCCGGTTCCTAAATCCCGGATTACTCTG
 CCCGCTCCCAATCCTGACCACGTAGGGGGCTACAACTGGCCGTTGCCACATTCGAGGGATTGAGAAACA
 AATTTGGACTTTACCTACCTCTCTTTAAGCCATCAGCATCTACCTCAAAAGTGACTGCTGGGGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224237 representing NM_015829
 Red=Cloning site Green=Tags(s)

MAAAKVALTKRADPAELKAIIFLKYASIEKNGEFFMSPHDFVTRYLNIFGESQPMPKTVELLSGVVDQTKD
 GLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQIFGQTTIHQHIFPNWDFVQLHFGK
 ERKRHLTYAEFTQFLLEIQLEHAKQAFVQRDNKTGKVSADFRDIMVTIRPHVLPFVEECLVAAAGGT
 RSHQVSFSYFNGFNSSLNMMELIRKIYSTLAGNRKDVEVTKEEFALAAQKFGQVTPMEVDILFQLADLYE
 PRGRMTLADIERIAPLEEGMLPFNLAEARQQKASGDAARPFLLQLAESAYRFLGSIAGAVGATAVYPI
 DLVKTRMQNRSTGSFVGMELMYKNSFDCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDVFVRDKF
 MHKDGSVPLLAEIFAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAAC
 FLRDIPFSAIYPCYAHVKASFANEDGQVSPGSLLAGAIAGMPAASLVTPADVIKTRLQVAARAGQTTY
 NGVTDCFRKILREEGPKALWKGVAARVFRSSPQFGVTLTYELLQRWFYVDFGGVKPVGSEPVPKSRITL
 PAPANPDHVGGYKLAVATFAGIENKFGLYLPLFKPSASTSKVTAGDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015829

ORF Size: 2028 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_015829.3](#), [NP_056644.1](#)

RefSeq Size: 3133 bp

RefSeq ORF: 2031 bp

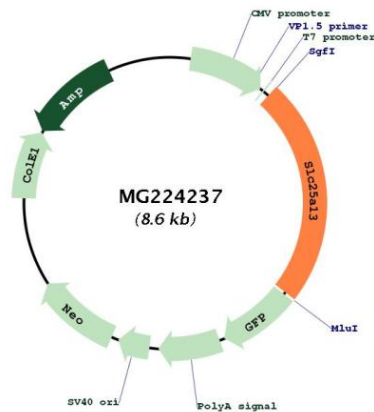
Locus ID: 50799

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 MG224237