

## Product datasheet for **MR225065**

### Slc25a13 (NM\_001177572) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc25a13 (NM_001177572) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc25a13
Synonyms:	A1785475; Ctrn
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR225065 representing NM\_001177572  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCCGATCCAGCTGAGCTTAAAGCAATATTTTTGAAGT  
 ATGCGAGCATTGAAAAAATGGTGAATTTTTATGTCTCCTCATGACTTTGTCACTCGGTATTTGAATAT  
 TTTTGGAGAAAGCCAGCCCAACCCGAAAACCTGTGGAACTTTTAAGTGGTGTAGTGGATCAGACCAAAGAT  
 GGGTTAATATCCTTCCAAGATTTGTAGCCTTTGAGTCTGTCTGTGTGCTCCGGATGCCTTGTTTATGG  
 TGGCGTTCCAGCTGTTTGACAAAGCTGGCAAAGGAGAGGTTACTTTTGAGGATGTCAAGCAAATTTTTGG  
 ACAGACTACAATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAGCTACATTTGGAAAA  
 GAAAGAAAAGGCACCTTACATATGCGGAGTTCCTCAGTTTTTTGTTGGAATACAGTTGGAGCACGCGA  
 AGCAAGCCTTTGTCAACGAGACAATGCCAAGACAGGCAAAGTCTCAGCCATTGACTTCCGGGACATCAT  
 GGTCAACATCCGTCCTTGTCTGACGCCTTTGTTGAGGAATGTCTAGTAGCTGCTGCTGGAGGCACT  
 AGGTCCCATCAAGTTAGCTTCTCCTATTTAATGGATTTAATTCGCTCCTTAACAACATGGAACCTATTA  
 GGAAGATCTACAGTACTCTGGCTGGCAACAGGAAAGACGTGGAGGTGACTAAGGAGGAGTTCGCTTTGGC  
 AGCCCAGAAGTTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTTATATGAG  
 CCGAGGGGGCGCATGACCTTAGCAGACATTGAGCGGATCGCCCTCTAGAGGAAGGAATGTTACCCTTCA  
 ACTTGGCCGAGGCCAGAGGCAGAAGGCCTCGGGTGTGCTGCTCGGCCCTTTCTTCTGCAGCTCGCAGA  
 GTCAGCCTACAGTTTGGACTGGGTTCTATTGCTGGAGCTGTGCGAGCCACTGCCGTGTATCCTATCGAT  
 CTTTGAAGACTCGAATGCAGAACCAGAGATCAACCGGCTCTTTTGTGGCGAGCTCATGTATAAAAAACA  
 GTTTGACTGCTTTAAGAAGGTGCTCCGCTACGAAGGCTTCTTTGGACTGTACCGAGGTTTGTGCCACA  
 GTTACTGGGAGTCGCCCGGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGAGATAAATTTATG  
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 CTGAGGGACATTCCTTCTCAGCCATCTACTTCCCGTGTATGCCACGTGAAGGCTTCTTTGCAAATG  
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 AGTGACCCCTGTGATGTTATCAAGACTAGATTACAGGTGGCTGCCCGGGCTGGCCAAACCACTTACAAC  
 GGTGTGACCGACTGCTTCAGAAAGATACTTCGAGAAGAGGGCCCCAAAGCATTGTGAAAGGAGTTGCTG  
 CTCGTGCTTCCGCTCCTCGCCCCAGTTTGGTGTACCTTGTTCAGTATGAATTGCTGCAGCGGTGGTT  
 CTATGTCGATTTTGGAGGCGTGAAGCCCGTGGGATCTGAGCCGGTTCCTAAATCCCGGATTACTCTGCC  
 GCTCCCAATCCTGACCACGTAGGGGGCTACAACTGGCCGTTGCCACATTCGAGGGATTGAGAACAAAT  
 TTGGACTTTACCTACCTCTTTAAGCCATCAGCATCTACCTCAAAAGTACTGCTGGGGACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR225065 representing NM\_001177572  
Red=Cloning site Green=Tags(s)

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MAAAKVALTKRADPAELKAIIFLKYASIEKNGEFFMSPHDFVTRYLNIFGESQPNPKTVELLSGVVDQTKD
GLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQIFGQTTIHQHIIPFNWSEFVQLHFGK
ERKRHLTYAETFQFLLEIQLEHAKQAFVQRDNAKTGKVSADFRDIMVTIRPHVLTFFVEECLVAAAGGT
RSHQVFSYFNGFNSSLNMMELIRKIYSTLAGNRKDVEVTKEEFALAAQKFGQVTPMEVDILFQLADLYE
PRGRMTLADIERIAPLEEGMLPFNLAEARQKASGDAARPFLLQLAESAYRFGLSIAGAVGATAVYPID
LVKTRMQNRSTGSFVGELMYKNSFDCFKVLRVEGFFGLYRGLLPQLLGVAPEKAIKLTVNDVFRDKFM
HKDGSVPLLAEIFAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAACAF
LRDIPFSAIYFPCYAHVKASFANEDGQVSPGSLLLAGAIAGMPAASLVTPADVIKTRLQVAARAGQTTYN
GVTDCFRKILREEGPKALWKGVAARVFRSSPQFGVTLLTYELLQRWFYVDFGGVKPVGSEPVPKSRITLP
APNPDHVGGYKLAVATFAGIENKFGLYLPLFKPSASTSKVVTAGDS
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-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

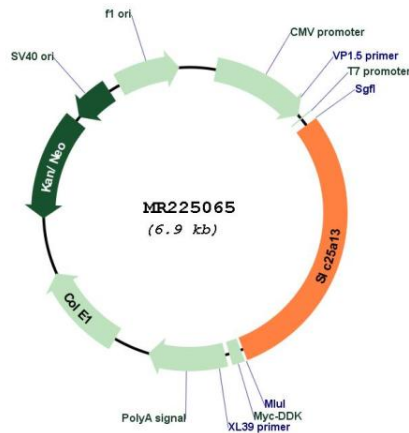
**UniProt ID:** [Q9QXX4](#)

**Cytogenetics:** 6 A1

**MW:** 74.8 kDa

**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 MR225065