

## Product datasheet for **MR224237**

### **Slc25a13 (NM\_015829) Mouse Tagged ORF Clone**

#### **Product data:**

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

>MR224237 representing NM\_015829  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGCCGCCAAGGTGGCTTTAACCAAGAGAGCCGATCCAGCTGAGCTTAAAGCAATATTTTTGAAGT  
 ATGCGAGCATTGAAAAAATGGTGAATTTTTATGTCTCCTCATGACTTTGTCACTCGGTATTTGAATAT  
 TTTTGGAGAAAGCCAGCCCAACCCGAAAACCTGTGGAACTTTTAAGTGGTGTAGTGGATCAGACCAAAGAT  
 GGGTTAATATCCTTCCAAGATTTGTAGCCTTTGAGTCTGTCTGTGCTCCGGATGCCTTGTTTATGG  
 TGGCGTTCCAGCTGTTTGACAAAGCTGGCAAAGGAGAGGTTACTTTTGAGGATGTCAAGCAAATTTTTGG  
 ACAGACTACAATTCATCAACATATTCCATTTAACTGGGATTGAGAATTTGTGCAGCTACATTTGGAAAA  
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 GGTCAACATCCGTCCCCATGTCTGACGCCTTTTGTGAGGAATGTCTAGTAGCTGCTGCTGGAGGCACT  
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 GGAAGATCTACAGTACTCTGGCTGGCAACAGGAAAGACGTGGAGGTGACTAAGGAGGAGTTCGCTTTGGC  
 AGCCCAGAAGTTTGGTCAGGTTACACCCATGGAAGTTGACATCTTGTTTCAGTTAGCAGATTTATATGAG  
 CCGAGGGGGCGCATGACCTTAGCAGACATTGAGCGGATCGCCCCCTAGAGGAAGGAATGTTACCCCTTCA  
 ACTTGGCCGAGGCCAGAGGCAGAGAAGGCCCTCGGGTGTGCTGCTCGGCCCTTTCTTCTGCAGCTCGC  
 AGAGTCAGCCTACAGTTTGGACTGGGTCTATTGCTGGAGCTGTGCGAGCCACTGCCGTGTATCCTATC  
 GATCTTGTAAAGACTCGAATGCAGAACCAGAGATCAACCGGCTCTTTTGTGGCGAGCTCATGTAAAA  
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 ACAGTTACTGGGAGTCGCCCGGAGAAGGCCATAAACTTACAGTGAACGATTTTGTGAGAGATAAATTT  
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 TGATTTTCAAAATCCTTTAGAGATTGTGAAAATCCGCTTACAAGTGGCCGGAGAGATCACCCTGGCCC  
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 TTCCTGAGGGACATTCCTTCTCAGCCATCTACTTCCCGTGTATGCCACGTGAAGGCTTCCTTTGCAA  
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 AACGGTGTGACCGACTGCTTCAGAAAGATACTTCGAGAAGAGGGCCCAAAGCATTGTGGAAGGAGTTG  
 CTGCTCGTGTCTCCGCTCCTCGCCCAGTTTGGTGTACCTTGTACGTATGAATTGCTGCAGCGGTG  
 GTTCTATGTCGATTTTGGAGCGTGAAGCCGTGGGATCTGAGCCGGTTCCTAAATCCCGGATTACTCTG  
 CCCGCTCCAATCCTGACCACGTAGGGGGCTACAACTGGCCGTTGCCACATTCGAGGGATTGAGAACA  
 AATTTGGACTTTACCTACCTCTCTTTAAGCCATCAGCATCTACCTCAAAAGTGACTGCTGGGGACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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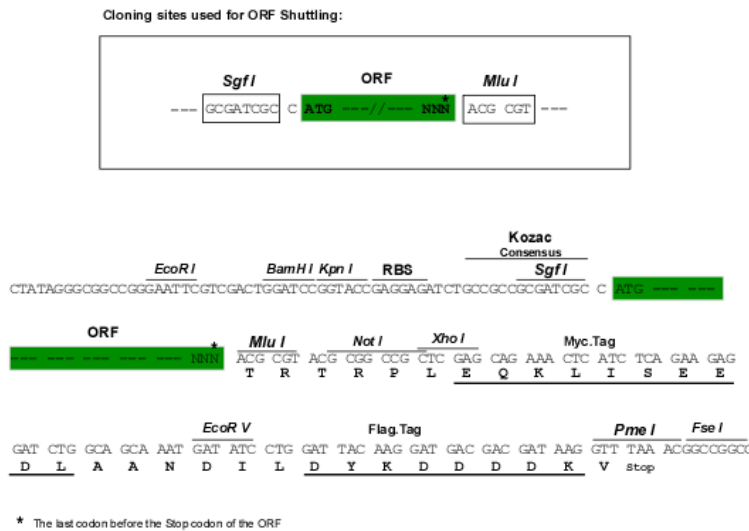
**Protein Sequence:** >MR224237 representing NM\_015829  
 Red=Cloning site Green=Tags(s)

MAAAKVALTKRADPAELKAIIFLKYASIEKNGEFFMSPHDFVTRYLNIFGESQPNPKTVELLSGVVDQTKD  
 GLISFQEFVAFESVLCAPDALFMVAFQLFDKAGKGEVTFEDVKQIFGQTTIHQHIFPNWSEFVQLHFGK  
 ERKRHLTYAFTQFLLEIQLEHAKQAFVQRDNAKTGKVSVIDFRDIMVTIRPHVLTFFVEECLVAAAGGT  
 RSHQVFSYFNGFNSSLNLMELIRKIYSTLAGNRKDVEVTKEEFALAAQKFGQVTPMEVDILFQLADLYE  
 PRGRMTLADIERIAPLEEGMLPFNLAEARQQKASGDAARPFLLQLAESAYRFLGSIAGAVGATAVYPI  
 DLVKTRMQNQRSTGSFVGELEMYKNSFDCFKKVLRYEGFFGLYRGLLPQLLGVAPEKAIKLTVNDFVRDKF  
 MHKDGSVPLLAEIFAGGCAGGSQVIFTNPLEIVKIRLQVAGEITTGPRVSALSVVRDLGFFGIYKGAAC  
 FLRDIPFSAIYPCYAHVKASFANEDGQVSPGSLLLAGAIAGMPAASLVTPADVIKTRLQVAARAGQTTY  
 NGVTDRCFRKILREEGPKALWKGVAARVFRSSPQFGVTLTYELLQRWFYVDFGGVKPVGSEPVPKSRITL  
 PAPNPDHVGGYKLAVATFAGIENKFGLYLPLFKPSASTSKVTAGDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**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

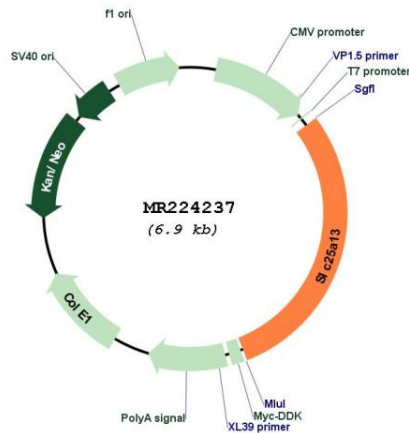
**UniProt ID:** [Q9QXX4](#)

**Cytogenetics:** 6 A1

**MW:** 74.9 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 MR224237