

## Product datasheet for RC233756

### SLC25A22 (NM\_001191060) Human Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | SLC25A22 (NM_001191060) Human Tagged ORF Clone                    |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | SLC25A22                                                          |
| Synonyms:                 | DEE3; EIEE3; GC-1; GC1; NET44                                     |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC233756 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATAAGCAGATCAGCCTGCCAGCCAAGCTCATCAATGGCGGCATCGCCGGGCTGATCGGTGTCA  
CCTGCGTGTTTCCCATCGACCTGGCCAAGACCAGGCTGCAGAACCAGCAGAACGGCCAGCGGTGTACAC  
GAGCATGCCGACTGCCTCATCAAGACCGTCCGCTCCGAGGGCTACTTCGGCATGTACCGGGGAGCTGCT  
GTGAACCTTGACCCTCGTACCCCGAGAAGGCCATCAAGCTGGCAGCCAACGACTTCTCCGACATCAGC  
TCTCTAAGGACGGCAGAAGCTGACCCTGCTTAAAGAGATGCTGGCGGGCTGTGGGGCTGGCACCTGCCA  
GGTGATCGTGACCACGCCATGGAGATGCTGAAGATCCAGCTGCAGGATGCAGGGCGCATTGCCGCCAG  
AGGAAGATCCTGGCTGCCAGGGCCAGCTCTCGGCCAGGGGGTGGCCAGCCCTCAGTGGAGGCTCCAG  
CTGCCCTCGGCCACGGCCACCCAGCTGACCCGCGACCTGCTGCGGAGCCGTGGCATTGCCGGTCTCTA  
CAAGGGACTCGGGGCCACGCTGCTCAGGGATGTCCCTTCTGTGGTGTACTTCCCGCTCTTGCCAAC  
CTGAACCAGCTGGGCCGCCCGCGTCCGAGGAGAAGTGCCTTTCTACGTGCTCTTCCGGCCGGCTGTG  
TGGCTGGGAGTGCCCGCGCTGTGGCCGTCAACCCTGTGATGTGGTGAAGACGGCTCCAGTCACTTCA  
GCGAGGCGTCAACGAGGACACCTACTCTGGGATCCTGGACTGTGCCAGGAAGATCCTGCGGCACGAGGGC  
CCCTCGGCCTTCTGAAGGGCGCCTACTGCCGCGCGTGGTATCGGCCCTTTTCGGCATCGCACAGG  
TGGTCTACTTCTGGGCATCGCGGAGTCCCTGCTGGGGCTGCTGCAGGACCCCGAGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233756 protein sequence  
Red=Cloning site Green=Tags(s)

MADKQISLPAKLINGGIAGLIGVTCVFPIDLAKTRLQNQQNGQRVYTSMSDCLIKTVRSEGYFGMYRGAA  
 VNLTLVTPEKAIKLAANDFFRHQLSKDGQKLTLLKEMLAGCGAGTCQIVITTPMELKIQLDAGRIAAQ  
 RKILAAQQLSAQGGAQPSVEAPAAPRPTATQLTRDLLRSRGIAGLYKGLGATLLRDVPFVSVYFPLFAN  
 LNQLGRPASEEKSPFYVSFLAGCVAGSAAAVAVNPCDVVKTRLQSLQRGVNEDTYSGILDCARKILRHEG  
 PSAFLKGAYCRALVIAPLFGIAQVYVYFLGIAESLLGLLQDPQA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6065\\_d05.zip](https://cdn.origene.com/chromatograms/mk6065_d05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001191060

**ORF Size:** 969 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\\_001191060.1](#), [NP\\_001177989.1](#)

**RefSeq Size:** 2968 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 79751

**UniProt ID:** [Q9H936](#)

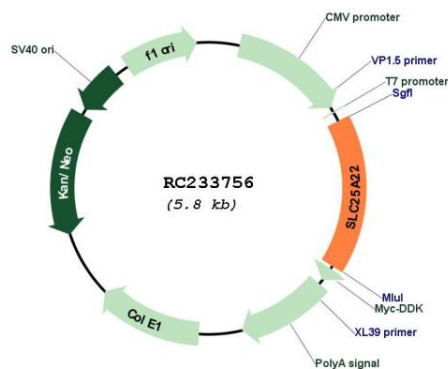
**Cytogenetics:** 11p15.5

**Protein Families:** Transmembrane

**MW:** 34.5 kDa

**Gene Summary:** This gene encodes a mitochondrial glutamate carrier. Mutations in this gene are associated with early infantile epileptic encephalopathy. Multiple alternatively spliced variants, encoding the same protein, have been identified.[provided by RefSeq, Jul 2010]

### Product images:



Circular map for RC233756