

## Product datasheet for **RG203650**

### SLC25A22 (NM\_024698) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A22 (NM_024698) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A22
Synonyms:	DEE3; EIEE3; GC-1; GC1; NET44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203650 representing NM_024698 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGATAAGCAGATCAGCCTGCCAGCCAAGCTCATCAATGGCGGCATCGCCGGGCTGATCGGTGTCA  
CCTGCGTGTTCATCGACCTGGCCAAGACCAGGCTGCAGAACCAGCAGAACGGCCAGCGGTGTACAC  
GAGCATGCCGACTGCCTCATCAAGACCGTCCGCTCCGAGGGCTACTTCGGCATGTACCGGGGAGCTGCT  
GTGAACCTGACCCTCGTACCCCGAGAAGGCCATCAAGCTGGCAGCCAACGACTTCTCCGACATCAGC  
TCTCTAAGGACGGCAGAAGCTGACCCTGCTTAAAGAGATGCTGGCGGGCTGTGGGGCTGGCACCTGCCA  
GGTGATCGTGACCACGCCATGGAGATGCTGAAGATCCAGCTGCAGGATGCAGGGCGCATTGCCGCCAG  
AGGAAGATCCTGGCTGCCAGGGCCAGCTCTCGGCCAGGGGGTGCCAGCCCTCAGTGGAGGCTCCAG  
CTGCCCTCGGCCACGGCCACCCAGCTGACCCGCGACCTGCTGCGGAGCCGTGGCATTGCCGGTCTCTA  
CAAGGGACTCGGGGCCACGCTGCTCAGGGATGTCCCTTCTGTGGTGTACTTCCCGCTCTTGCCAAC  
CTGAACCAGCTGGGCCGCCCGCGTCCGAGGAGAAGTCGCTTCTACGTGCTCTTCCGGCCGGCTGTG  
TGGCTGGGAGTGCCCGCGCTGTGGCCGTAACCCCTGTGATGTGGTGAAGACGGCGCTCCAGTCACTTCA  
GCGAGGCGTCAACGAGGACACCTACTCTGGGATCCTGGACTGTGCCAGGAAGATCCTGCGGCACGAGGGC  
CCCTCGGCCTTCTGAAGGGCGCCTACTGCCGCGCGCTGGTATCGCGCCCTTTTCGGCATCGCACAGG  
TGGTCTACTTCTGGGCATCGCGGAGTCCCTGCTGGGGCTGCTGCAGGACCCCGAGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG203650 representing NM\_024698  
 Red=Cloning site Green=Tags(s)

MADKQISLPAKLINGGIAGLIGVTCVFPIDLAKTRLQNQQNGQRVYTSMSDCLIKTVRSEGYFGMYRGAA  
 VNLTLVTPKAIKLAANDFFRHQLSKDGQKLTLLKEMLAGCGAGTCQIVITTPMEMLKIQLDAGRIAAQ  
 RKILAAQQLSAQGGAQPSVEAPAAPRPTATQLTRDLLRSRGIAGLYKGLGATLLRDVPSVYVYFPLFAN  
 LNQLGRPASEEKSPFYVFLAGCVAGSAAAVAVNPCDVVKTRLQSLQRGVNEDTYSGILDCARKILRHG  
 PS AFLK GAYCRALVIAPLFGIAQVYVYFLGIAESLLGLLQDPQA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_024698

**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\\_024698.6](#)

**RefSeq Size:** 2780 bp

**RefSeq ORF:** 972 bp

**Locus ID:** 79751

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

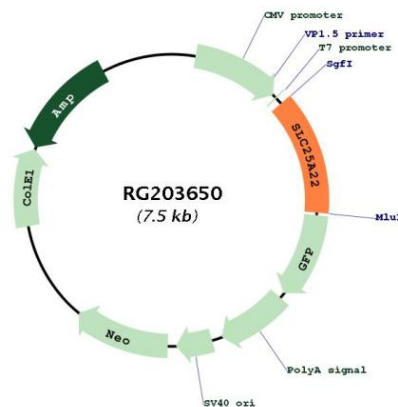
**Cytogenetics:** 11p15.5

**Domains:** mito\_carr

**Protein Families:** Transmembrane

**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 RG203650