

Product datasheet for **RC237024**

SLC25A45 (NM_001278250) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: SLC25A45 (NM_001278250) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: SLC25A45
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC237024 representing NM_001278250
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCGGTGGAGGAATTTGTGGCTGGCTGGATCTCTGGCGCTCTGGGCTTGGTCCTGGGACACCCGTTT
 AACTGTAAAGCTCCTGGGCTTCTCAAGGGAATGAGCTTCCCATTGCCAGCATAGCTGTGGTCAACTC
 TGTCTGTTTGGGTCTATAGCAACACCCTGCTGGTGTACGGCCACCTCCCACCAGGAGCGGGGCC
 CAGCCGCCAGCTACATGCACATCTTCTAGCGGCTGCACCGGGGTTCTGCAGGCCTACTGTCTGG
 CTCTTTTGACCTCATCAAAGTCCGGCTACAAAACCAGACAGAGCCAAGGGCCAGCCAGGGAGCCCCC
 ACCCCGGTACCAGGGGCCGTGCACTGTGACGCTCCATCTTCCGGGAGGAGGGCCCGGGGGCTGTT
 CGAGGAGCCTGGGCCCTGACGCTGAGGGACACCCACGGTGGGATCTACTTCATCACCTATGAAGGGC
 TCTGTCCAGTACACACCAGAAGGCCAGAATCCAGCTCAGCCACGGTGTGGTGGCAGGGGGCTTTGC
 AGCATTGCTTCTGGTGGCAGCCACGCCCTTAGACGTGATCAAGTCCCGGATGCAGATGGATGGACTG
 AGACGCAGAGTGTACCAGGGATGCTGGACTGCATGGTGAGCAGCATCCGGCAGGAAGGACTGGGAGTCT
 TCTTCCGGGGGTCAACATCAACAGTCCCCGCGCCTTCCCGTCAATGCTGTACCTTCTCAGCTACGA
 ATATCTCCTCCGCTGGTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC237024 representing NM_001278250
 Red=Cloning site Green=Tags(s)

MPVEEFVAGWISGALGLVLGHPFDTVKLLGFFKGMSPFIASIAVNSVLFVGVSNLTLVL TATSHQERRA
 QPPSYMHIFLAGCTGGFLQAYCLAPFDLIKVRLQNQTEPRAQPGSPPPRYQGPVHCAASIFREEGPRGLF
 RGAWALTLRDTPTVGIYFITYEGLCRQYTPAQNPSSATVLVAGGFAGIASWVAATPLDVIKSRMQMDGL
 RRRVYQGM LDCMVSSIRQEGLGVFFRGVTINSARAFPVNAVTFLSYEYLLRWWG

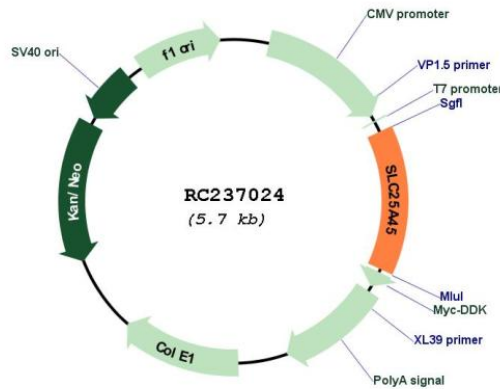
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278250

ORF Size: 792 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_001278250.2 , NP_001265179.2 |
| RefSeq Size: | 2463 bp |
| RefSeq ORF: | 795 bp |
| Locus ID: | 283130 |
| UniProt ID: | Q8N413 |
| Cytogenetics: | 11q13.1 |
| Protein Families: | Druggable Genome, Transmembrane |
| MW: | 29.4 kDa |
| Gene Summary: | SLC25A45 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[supplied by OMIM, Mar 2008] |