

Product datasheet for RC221994

SLC25A45 (NM_182556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A45 (NM_182556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC25A45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221994 representing NM_182556 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTGGAGGAATTTGTGGCTGGCTGGATCTCTGGCGCTCTGGGCTTGGTCCTGGGACACCCGTTTG
ACACTGTAAGGTGAGGCTGCAGACCCAGACCACCTACCGGGGCATCGTTGATTGCATGGTCAAGATTTA
CCGCCATGAGTCCCTCCTGGGCTTCTTCAAGGAATGAGCTTCCCATTGCCAGCATAGCTGTGGTCAAC
TCTGTCCCTGTTTGGGGTCTATAGCAACACCCTGCTGGTGTCTCACGGCCACCTCCCACCAGGAGCGGGCGG
CCCAGCCGCCAGCTACATGCACATCTTCTAGCGGGCTGCACCGGGGGTTTCTGCAGGCCTACTGTCT
GGCTCCTTTTGACCTCATCAAAGTCCGGCTACAAAACCAGACAGAGCCAAGGGCCAGCCAGGGAGCCCC
CCACCCCGGTACCAGGGGCCCGTGCACCTGTGCAGCCTCCATCTTCCGGGAGGAGGGGCCCGGGGCTGT
TCCGAGGAGCCTGGGCCCTGACGCTGAGGGACACCCACCGTGGGGATCTACTTCATCACCTATGAAGG
GCTCTGTGCGCAGTACACACCAGAAGGCCAGAATCCCAGCTCAGCCACGGTGTGGTGGCAGGGGCTTT
GCAGGCATTGCTTCTGGGTGGCAGCCACGCCCTTAGACATGATCAAGTCCCGGATGCAGATGGATGGAC
TGAGACGCAGAGTGTACCAGGGGATGCTGGACTGCATGGTGAAGCAGCATCCGGCAGGAAGGACTGGGAGT
CTTCTTCCGGGGGTACCATCAACAGTGCCCGCCCTTCCCGTCAATGCTGTACCTTCTCAGCTAC
GAATATCTCCTCCGCTGGTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC221994 representing NM_182556
Red=Cloning site Green=Tags(s)

MPVEEFVAGWISGALGLVLGHPFDTVKVRQLQTQTTYRGI VDCMVKIYRHESLLGFFKGMSPFIASIAVVN
 SVLFGVYSNTLLVLTATSHQERRAQPPSYMHIFLAGCTGGFLQAYCLAPFDLIKVRQLQNQTEPRAQPGSP
 PPRYQGPVHCAASIFREEGPRGLFRGAWALTLRDTPTVGIYFITYEGLCRQYTPAQNPSSATVLVAGGF
 AGIASWVAATPLDMIKSRMQMDGLRRRVYQGM LDCMVSSIRQEGLGVFFRGVTINSARAFPVNAVTFLSY
 EYLLRWGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8053_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_182556

ORF Size: 864 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_182556.2](#)

RefSeq Size: 2539 bp

RefSeq ORF: 867 bp

Locus ID: 283130

UniProt ID: [Q8N413](#)

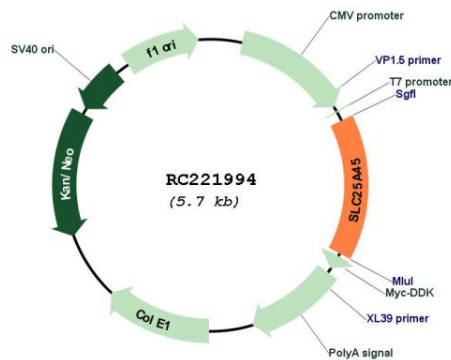
Cytogenetics: 11q13.1

Protein Families: Druggable Genome, Transmembrane

MW: 31.7 kDa

Gene Summary: SLC25A45 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC221994