

## Product datasheet for **RC236720**

### **SLC25A45 (NM\_001300820) Human Tagged ORF Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: SLC25A45 (NM\_001300820) 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: >RC236720 representing NM\_001300820  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGTGGAGGAATTTGTGGCTGGCTGGATCTCTGGCGCTCTGGGCTTGGTCCTGGGACACCCGTTTG  
ACACTGTAAGGTGAGGCTGCAGACCCAGACCACCTACCGGGGCATCGTTGATTGCATGGTCAAGATTTA  
CGCCATGAGTCCGCTACTGTCTGGCTCCTTTTGACCTCATCAAAGTCCGGCTACAAAACAGACAGAG  
CCAAGGGCCAGCCAGGAGCCCCACCCCGGTACCAGGGGCCCGTGCATGTGCAGCCTCCATCTTCC  
GGGAGGAGGGGCCCGGGGCTGTTCCGAGGAGCCTGGGCCCTGACGCTGAGGGACACCCACCGTGGG  
GATCTACTTCATCACCTATGAAGGGCTCTGTCGCCAGTACACACCAGAAGGCCAGAATCCAGCTCAGCC  
ACGGTGTGGTGGCAGGGGGCTTTCAGGCATTGCTTCTGGGTGGCAGCCACGCCCTTAGACGTGATCA  
AGTCCCGGATGCAGATGGATGGACTGAGACGCAGAGTGTACCAGGGGATGCTGGACTGCATGGTGGAGCAG  
CATCCGGCAGGAAGGACTGGGAGTCTTCTCCGGGGGTACCATCAACAGTGCCCGGCCCTTCCCGTC  
AATGCTGTACCTTCTCAGCTACGAATATCTCCTCCGCTGGTGGGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236720 representing NM\_001300820  
Red=Cloning site Green=Tags(s)

MPVEEFVAGWISGALGLVLGHPFDTVKVRQLQTQTTYRGI VDCMVKIYRHESAYCLAPFDLIKVRLQNQTE  
PRAQPGSPPPRYQGPVHCAASIFREEGPRGLFRGAWALTLRDTPTVGIYFITYEGLCRQYTPGQNPSSA  
TVLVAGGFAGIASWVAATPLDVIKSRMQMDGLRRRVYQGMDCMVSSIRQEGLGVFFRGVTINSARAFPV  
NAVTFLSYEYLLRWG

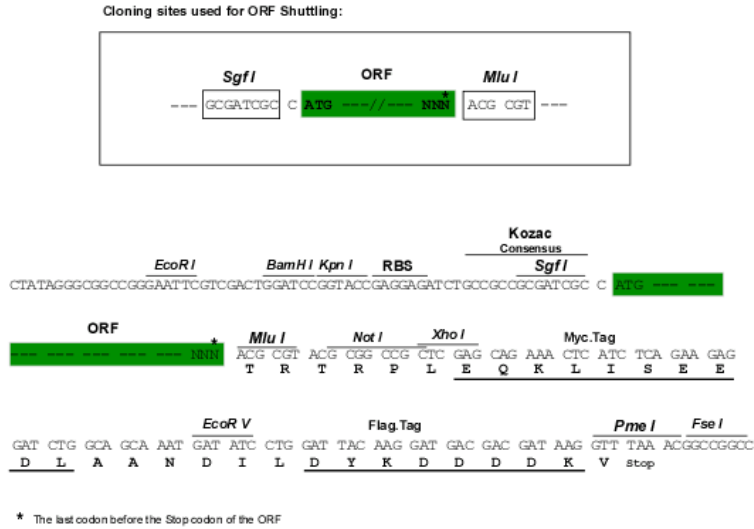
**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV



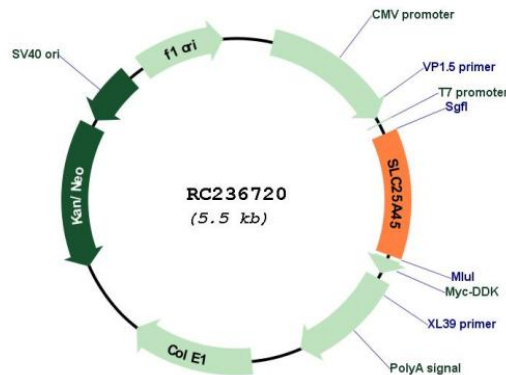
[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001300820

ORF Size: 678 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001300820.1, NP_001287749.1</u>
<b>RefSeq Size:</b>	2349 bp
<b>RefSeq ORF:</b>	681 bp
<b>Locus ID:</b>	283130
<b>UniProt ID:</b>	<u>Q8N413</u>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>MW:</b>	25.6 kDa
<b>Gene Summary:</b>	SLC25A45 belongs to the SLC25 family of mitochondrial carrier proteins (Haitina et al., 2006 [PubMed 16949250]).[supplied by OMIM, Mar 2008]