

Product datasheet for **RG206647**

SLC25A41 (NM_173637) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SLC25A41
Synonyms:	APC4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206647 representing NM_173637
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCAGGTCTACTCCTCCAAGACGAACTTCACCAACCTGCTGGGGGGCTACAGAGCATGGTCCAGGAGG
GCGGCTTCCGCTCCCTGTGGCGGGGCAACGGCATCAACGTGCTCAAGATTGCTCCTGAGTATGCCATCAA
GTTCTCCGTATTCGAGCAGTGCAAGAATTACTTCTGTGGAATACAAGGGTCCCCGCCCTTCAGGAGCGT
CTCCTTGCTGGCTCCCTGGCTGTGGCCATCTCCAGACCCTCATCAACCCATGGAGGTGCTGAAGACGC
GGTTGACCTTGCGTCGGACGGGCCAGTACAAGGGGCTGCTGGACTGCGCCAGGCAGATCTTGCAGCGAGA
GGGCACCCGCGCCCTTTACCGCGGCTACCTGCCCAATATGCTCGGCATCATCCCTATGCCTGCACCGAC
CTGGCTGTCTATGAGATGCTCCAGTGCTTCTGGTGAAGTCAGGCAGGGATATGGGGACCCAGTGCC
TGGTCACTGTCTGTGTGACGCTATCCACGACCTGTGGCCAGATGGCCAGCTACCACTGACTCTGGT
GCGCACCAGGATGCAGGCCAAGATACCGTGGAGGGCTCAAATCCCACCATGCGCGGAGTCTCCAGCGG
ATCCTGGCCAGCAGGGCTGGCTAGGGCTGTACCGAGGCATGACCCCCACGCTACTGAAGGTCTTACCAG
CAGGTGGCATCAGCTATGTGGTGTACGAAGCCATGAAGAAAACCTGGGCATA

AG**GCGACCG**ACGCGTACGCGCGCTCGAG - GFP Tag - GTTTAA



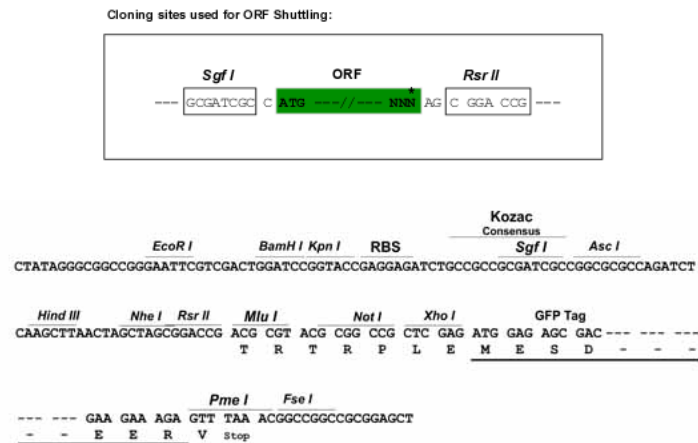
Protein Sequence: >RG206647 representing NM_173637
 Red=Cloning site Green=Tags(s)

MQVYSSKTNFTNLLGGLQSMVQEGGFRSLWRNGINVLKIAPEYAIKFSVFEQCKNYFCGIQGSPPFQER
 LLAGSLAVAIQSQTINPMEVLKTRLTLRRTGQYKGLDCARQILQREGTRALYRGYLPNMLGIIPYACTD
 LAVYEMLCQFVWVSGRDMGDPVSLSSVTLSSTCGQMASYPLTLVRTRMQAQDTVEGSNPTMRGVLQR
 ILAQQGWLGLYRGMTPTLLKVLPAAGISYVVYEAMKKTGLI

SGPTRRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_173637

ORF Size: 753 bp

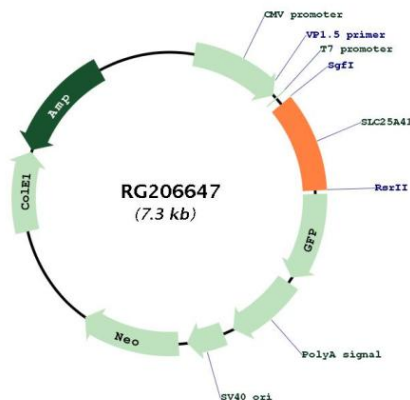
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173637.3, NP_775908.2</u>
RefSeq Size:	1571 bp
RefSeq ORF:	1113 bp
Locus ID:	284427
UniProt ID:	<u>Q8N5S1</u>
Cytogenetics:	19p13.3
Protein Families:	Druggable Genome
Gene Summary:	SLC25A41 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 RG206647