

Product datasheet for **RG206966**

SLC25A16 (NM_152707) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC25A16 (NM_152707) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A16
Synonyms:	D10S105E; GDA; GDC; HGT.1; hML7; ML7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206966 representing NM_152707 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGCGGCGACGGCCGCGGCAGCCCTGGCGGCGGCCGATCCCCCTCCGCAATGCCGAGGCGGCAG
 GGGCCGGAGGGCCACAACCCGAGAGACTTCTACTGGCTGCGCTCTTTCTGGCCGGAGGTATTGCTGG
 ATGCTGTGCCAAAACAACAGTTGCTCCATTGGATCGAGTAAAGGTTTTATTACAAGCTCACAAATCACCAT
 TACAAGCATTTAGGAGTATTTCTGCATTGCGTGTCTCCTCAAAAAGAAGGATTCCTTGGATTGTATA
 AAGGAAATGGTGCAATGATGATTGCAATCTTCCCTATGGTGCAATCCAGTTTATGGCATTGAGCATT
 TAAAACGTTAATTACTACGAAGCTGGGAATTTACGGTCATGTGCACAGATTAATGGCTGGATCCATGGCA
 GGTATGACAGCAGTTATCTGTACTTACCCTCTTGACATGGTTAGGGTCCGCCTAGCATTCCAGGTGAAAG
 GGGAACACAGCTATACAGGAATTATTCATGCTTTCAAAACAATTTATGCAAAGGAAGGTGGTTTCTTTGG
 ATTTTACAGAGGTCTGATGCCTACTATTTAGGAATGGCTCCATATGCAGGTGTTTCATTTTTTACTTTT
 GGTACCTTGAAGAGTGTGGGCTTTCCCATGCTCCTACCTTCTTGCCAGACCTTCATCAGACAATCCTA
 ATGTCTTAGTTTTGAAAACATGTAACTTACTTTGTGGTGGTGTGCTGGAGCAATAGCGCAGACAAT
 ATCCTACCCATTTGATGTGACTCGTCGGCAATGCAATTAGGAAGTGTCTGCCGGAATTTGAAAAGTGC
 CTTACCATGCGGGATACTATGAAGTATGTCTATGGACACCATGGAATTCGAAAAGGACTCTATCGTGGTT
 TATCTCTTAATTACATTCGCTGTATTCCTCTCAAGCAGTGGCTTTTACAACATACGAACCTATGAAGCA
 GTTTTTTCACCTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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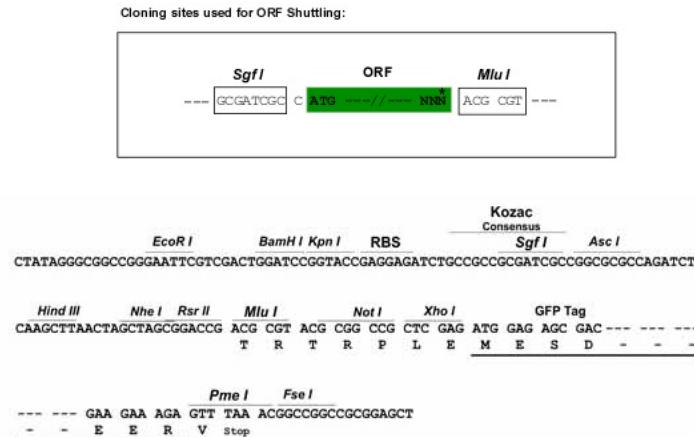
Protein Sequence: >RG206966 representing NM_152707
 Red=Cloning site Green=Tags(s)

MAAATAAAALAADPPPAMPQAAGAGGPTTRDFYWLRSFLAGGIAGCCAATTVAPLDRVKVLQAHNHH
 YKHLGVFSALRAVPQKEGFLGLYKGNAMMIRIFPYGAIQFMAFEHYKTLITTKLGISGHVHRLMAGSMA
 GMTAVICTYPLDMVRVRLAFQVKGEHSYTGIIHAFKTIYAKEGGFFGFYRGLMPTILGMAPYAGVSFFTF
 GTLKSVGLSHAPTLLGRPSSDNPVNLVKTHVNLLCGGVAGIAQTISYPFDVTRRRMQLGTVLPEFEKC
 LTMRDTMKYVYGHGIRKGLYRGLSLNYIRCIPSQAVAFTTYELMKQFFHLN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152707

ORF Size: 996 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: [NM_152707.4](#)

RefSeq Size: 2560 bp

RefSeq ORF: 999 bp

Locus ID: 8034

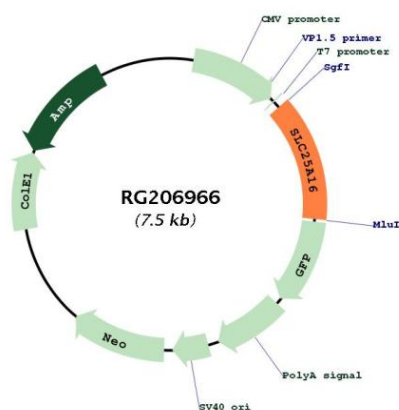
UniProt ID: [P16260](#)

Cytogenetics: 10q21.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes a protein that contains three tandemly repeated mitochondrial carrier protein domains. The encoded protein is localized in the inner membrane and facilitates the rapid transport and exchange of molecules between the cytosol and the mitochondrial matrix space. This gene has a possible role in Graves' disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG206966