

Product datasheet for **RG221734**

C14orf68 (SLC25A47) (NM_207117) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf68 (SLC25A47) (NM_207117) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC25A47
Synonyms:	C14orf68; HDCMP; HDMCP; HMFN1655
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221734 representing NM_207117 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTGTCGCTGGAGCCATCGGAGGCGTCTGCGGTGTTGCTGTGGGCTACCCCTGGACACGGTGA
AGGTCAGGATCCAGACGGAGCCAAAGTACACAGGCATCTGGCACTGCGTCCGGGATACGTATCACCGAGA
GCGCGTGTGGGGCTTCTACCGGGGCTCTCGTGCCCGTGTGCACGGTGTCCCTGGTATCTCCGTGTCT
TTTGGCACCTACCGCCACTGCCTGGCGCACATCTGCCGGTCCGGTACGGCAACCCTGACGCCAAGCCCA
CCAAGGCCGACATCACGCTCTCGGGATGCGCCTCCGGCCTCGTCCGCGTGTTCCTGACGTGCCCCACTGA
GGTGGCCAAAGTCCGCTTGCAGACGCAGACACAGGCGCAGAAGCAGCAGCGGGCGGCTTTCGGCCTCGGGG
CCGTTGGCTGTGCCCCCATGTGTCCTGTGCCCCAGCCTGCCAGAGCCAAAGTACCGCGGGCCACTGC
ACTGCCTGGCCACGGTAGCCCGTGAGGAGGGGCTGTGCGGCTCTACAAGGGCAGCTCGGCCCTGGTCTT
ACGGGACGGCCACTCCTTTGCCACTACTTCTTTCTACGCGGTCTCTGCGAGTGGCTCAGCCCCGCT
GGCCACAGCCGGCCAGATGTCCCGGGCTGTGGTGGCCGGGGCTGTGCAGGAGTCTGGCCTGGGCTG
TGGCCACCCCATGGACGTGATCAAGTCGAGACTGCAGGCAGACGGCCAGGGCCAGAGGCCTACCGGGG
TCTCCTGCACTGTATGGTGACCAGCGTTCGAGAGGAGGGACCCCGGTCCTTTTCAAGGGGCTGGTACTC
AATTGTGCCGCGCCTTCCCTGTCAACATGGTGGTCTTCGTCGCCTATGAGGCAGTCTGAGGCTCGCCC
GGGTCTGCTACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221734 representing NM_207117
 Red=Cloning site Green=Tags(s)

MDFVAGAIIGGVCGVAVGVPLDVTVKVRIQTEPKYGTIWHCVRDTYHRERVWGFYRGLSLPVCTVSLVSSVS
 FGTYRHCLAHICRLRYGNPDAKPTKADITL SGCASGLVRVFLTSPTEVAKVRLQTQTQAQKQRRRLSASG
 PLAVPPMCPVPPACPEPKYRGPLHCLATVAREEGLCGLYKSSALVLRDGHSFATYFLSYAVLCEWLSPA
 GHSRPDVPGLVAGGCAGVLAWAVATPMDVIKSRLQADGGQRRYRGLLHCMVTSVREEGPRVLFKGLVL
 NCCRAFPMVMVVFVAYEAVLRLARGLLT

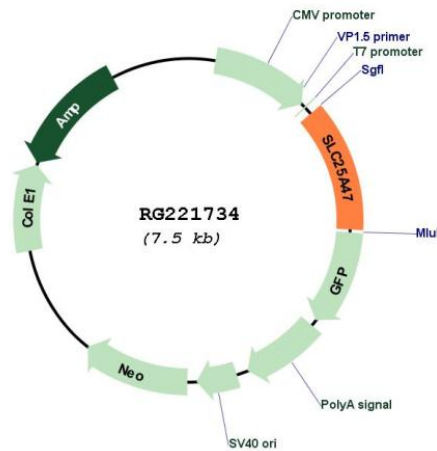
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_207117

ORF Size: 924 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:	<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_207117.4
RefSeq Size:	1733 bp
RefSeq ORF:	927 bp
Locus ID:	283600
UniProt ID:	Q6Q0C1
Cytogenetics:	14q32.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a member of a large family of mitochondrial transporters. The nuclear-encoded carrier protein is embedded in the inner mitochondrial membrane. This member of the family is thought to be an uncoupling protein that uncouples mitochondrial respiration from ATP synthesis by dissipating the transmembrane proton gradient. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2017]