

Product datasheet for RC221734

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:	Myc-DDK
Symbol:	C14orf68
Synonyms:	C14orf68; HDCMP; HDMCP; HMFN1655
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221734 representing NM_207117 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCCGATCGCC

ATGGATTTTGTGCTGGAGCCATCGGAGGCGTCTGCGGTGTTGCTGTGGGCTACCCCTGGACACGGTGA
AGGTCAGGATCCAGACGGAGCCAAAGTACACAGGCATCTGGCACTGCGTCCGGGATACGTATCACCGAGA
GCGCGTGTGGGGCTTCTACCGGGGCTCTCGTGCCCGTGTGCACGGTGTCCCTGGTATCTCCGTGTCT
TTTGGCACCTACCGCCACTGCCTGGCGCACATCTGCCGGTCCGGTACGGCAACCCTGACGCCAAGCCCA
CCAAGGCCGACATCACGCTCTCGGGATGCGCCTCCGGCCTCGTCCGCGTGTTCCTGACGTGCCCCACTGA
GGTGGCCAAAGTCCGCTTGCAGACGCAGACACAGGCGCAGAAGCAGCAGCGGGCGGCTTTCGGCCTCGGGG
CCGTTGGCTGTGCCCCCATGTGTCCTGTGCCCCAGCCTGCCAGAGCCCAAGTACCGCGGGCCACTGC
ACTGCCTGGCCACGGTAGCCCGTGAGGAGGGGCTGTGCGGCTCTACAAGGGCAGCTCGGCCCTGGTCTT
ACGGGACGGCCACTCCTTTGCCACCTACTTCTTTCTACGCGGTCTCTGCGAGTGGCTCAGCCCCGCT
GGCCACAGCCGGCCAGATGTCCCGGGCTGTGGTGGCCGGGGCTGTGCAGGAGTCTGGCCTGGGCTG
TGGCCACCCCATGGACGTGATCAAGTCGAGACTGCAGGCAGACGGCCAGGGCCAGAGGCCTACCGGGG
TCTCCTGCACTGTATGGTGACCAGCGTTTCGAGAGGAGGGACCCCGGGTCTTTTCAAGGGGCTGGTACTC
AATTGTGCCGCGCTTCCCTGTCAACATGGTGGTCTTCGTCGCCATGAGGCAGTGTGAGGCTCGCCC
GGGTCTGCTACA

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221734 representing NM_207117
Red=Cloning site Green=Tags(s)

MDFVAGAIIGGVCGVAVGYPLDVKVRIQTEPKYGTIWHCVRDYHRRERVWGFYRGLSLPVCTVSLVSSVS
 FGTYRHCLAHICRLRYGNPDAKPTKADITL SGCASGLVRVFLTSPTEVAKVRLQTQTQAQKQRRRLSASG
 PLAVPPMCPVPPACPEPKYRGPLHCLATVAREEGLCGLYKSSALVLRDGHFATYFLSYAVLCEWLSA
 GHSRPDVPGLVAGGCAGVLAWAVATPMDVIKSRLQADGGQRRYRGLLHCMVTSVREEGPRVLFKGLVL
 NCCRAFPVNMVVFVAYEAVLRLARGLLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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](#)

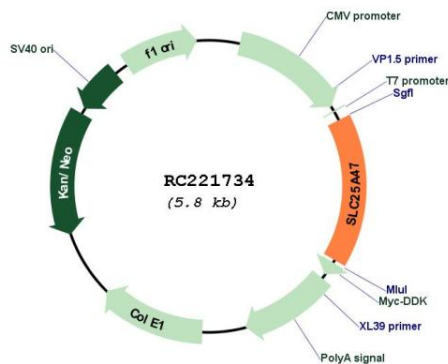
Cytogenetics: 14q32.2

Protein Families: Druggable Genome, Transmembrane

MW: 33.3 kDa

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]

Product images:



Circular map for RC221734