

Product datasheet for **RC227494**

EXOC7 (NM_001145297) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC7 (NM_001145297) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXOC7
Synonyms:	2-5-3p; BLOM4; EX070; EXO70; Exo70p; EXOC1; NEDSEBA; YJL085W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC227494 representing NM_001145297
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGATTCCCCACAGGAGGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGGAGA
CTCTGTCCTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATC
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CAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAGCCCAGACAGCCCGGAAGTCAACAAAGTGAAA
CTGCTCTTTGAGCGCGGAAGGAGGCCCTGGAGTCCGAATTTCCGAGCCTGATGACGCGGCACAGTAAGG
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CCTGGAGCACCTGCCCGAGAGCGTCTCCAGGATGTCATTCCGATCTCCCGCTGGCTGGTGAATATGGC
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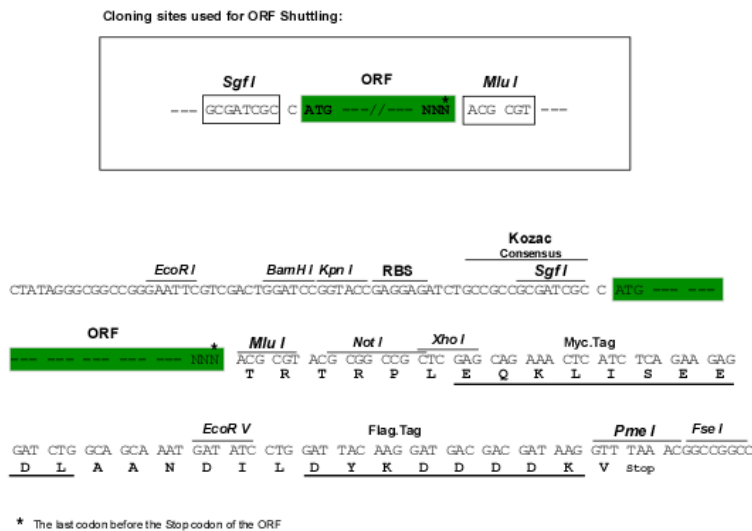
Protein Sequence: >RC227494 representing NM_001145297
Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLKQEEETLSFIRDSLEKSDQLTKNMVSISSSFESRLMKLENSIIPVHKQTENL
 QRLQENVEKTLSCLDHVISYYHVASDTEKIIREGPTGRLEEYLGSMAIQKAVEYFQDNPSDPELNKVK
 LLLFERGKEALESEFRSLMTRHSHKVVSPVILDLISGDDLEAQEDVTLLEHLPESVLQDVIRISRWLVEYG
 RNQDFMNVYYQIRSSQLDRSIKGLKEHFHKSSSSSGVPYSPAIPNKRKDTPTKKPVKRPGTIRKAQNLK
 QYSQHGLDGKKGGSNLIPLEGLLPCTPRGGLPGPWINAACVCAADISPGHEHDFRVKHLSEALNDKHGPL
 AGRDDMLDVETDAYIHCVSFAVKLAQSEYQLLADIPEHHQKKTDFSLIQDALDGLMLEGENIVSAARKA
 IVRHDFSTVLTVPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNDPDK
 YNMPKDGTVHELTSNAILFLQQLDFQETAGAMLASQETSSSATSYSSEFSKRLSTYICKVLGNLQNL
 LSKSKVYEDPALSAIFLHNNYNYILKSLEKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYI
 AEKNLPVFQPGVKLRDKERQIIKERFKGFNDGLEELCKIQKAWAIPDTEQRDRIRQAQKTIKETYGAFL
 QKFGSVPFTKNPEKYIKYGVEQVGMIDRLFD TSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145297

ORF Size: 2205 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_001145297.4](#)

RefSeq Size: 4952 bp

RefSeq ORF: 2208 bp

Locus ID: 23265

UniProt ID: [Q9UPT5](#)

Cytogenetics: 17q25.1

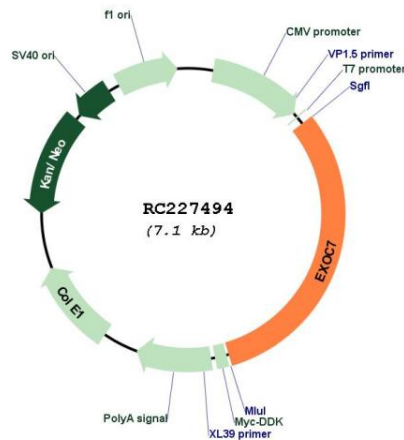
Protein Families: Druggable Genome

Protein Pathways: Insulin signaling pathway

MW: 83.4 kDa

Gene Summary: The protein encoded by this gene is a component of the exocyst complex. The exocyst complex plays a critical role in vesicular trafficking and the secretory pathway by targeting post-Golgi vesicles to the plasma membrane. The encoded protein is required for assembly of the exocyst complex and docking of the complex to the plasma membrane. The encoded protein may also play a role in pre-mRNA splicing through interactions with pre-mRNA-processing factor 19. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 4. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RC227494