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Product datasheet for RC227527

EXOC7 (NM_001145299) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC7 (NM_001145299) 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)

ORF Nucleotide Sequence:

>RC227527 representing NM_001145299
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCCCCCACAGGAGGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGGAGA
CTCTGTCCTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATC
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CCAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGCATGGC
CAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAGCCCAGACAGCCCGGAACTCAACAAAGTGAAA
CTGCTCTTTGAGCGCGGGAAGGAGGCCCTGGAGTCCGAATTTCGCAGCCTGATGACGCGGCACAGTAAGG
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CCTGGAGCACCTGCCCGAGAGCGTGCTCCAGGATGTCATTCGCATCTCCCGCTGGCTGGTGGAATATGGC
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TGAAGGAGCATTTCCATAAGAGCAGTTCTTCCTCTGGGGTTCCCTACTCCCCTGCTATCCCCAACAAGAG
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TACCAGCTGCTGGCCGACATCATCCCCGAGCACCACCAGAAGAAGACCTTCGACTCCCTGATACAGGATG
CCCTGGATGGGCTGATGCTTGAAGGGGAGAACATCGTGTCTGCTGCCCGGAAGGCCATTGTGCGACACGA
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CGTGCCCTTCACCAAGAACCCGGAGAAGTACATCAAGTACGGGGTGGAGCAGGTGGGCGACATGATCGAT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227527 representing NM_001145299
Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLKQEEETLSFIRDSLEKSDQLTKNMVSILSSFESRLMKLENSIIPVHKQTENL
QRLQENVEKTLSCLDHVISYYHVASDTEKIIREGPTGRLEEYLGSMAKIQKAVEYFQDNSPDSPELNKVK
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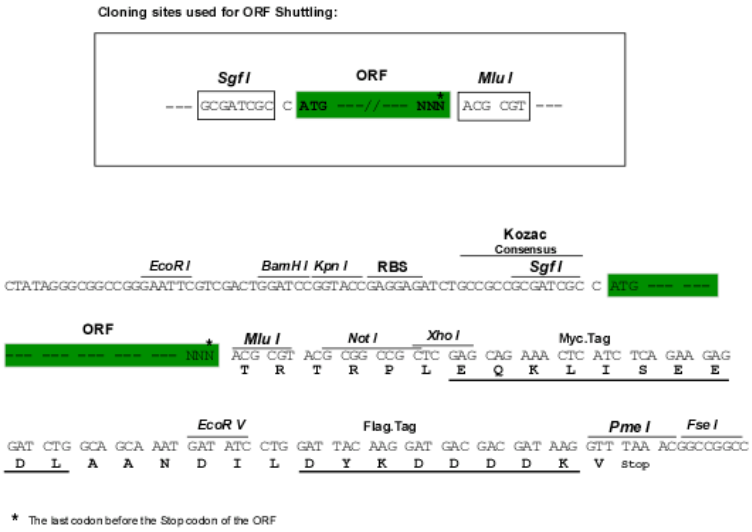
RNQDFMNVYYQIRSSQLDRSIKGLKEHFHKSSSSSGVPYSPAIPNKRKDTPTKKPVKRPGTIRKAQNLLK
QYSQHGLDGKKGGSNLIPLEGHEHDFRVKHLSEALNDKHGPLAGRDDMLDVETDAYIHCVSAFVKLAQSE
YQLLADIIPEHHQKKTFDSLIQDALDGLMLEGENIVSAARKAIVRHDFSTVLTVFPILRHLKQTKPEFDQ
VLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNDPDKEYNMPKDGTVHELTSNAILFLQQLLDFQE
TAGAMLASQETSSSATSYSSEFSKRLLSTYICKVLGNLQLNLLSKSKVYEDPALSAIFLHNNYNYILKSL
EKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFQPGVKLRDKERQIIKERFKG
FNDGLEELCKIQKAWAIPDTEQRDRIRQAQKTIVKETYGAFLQKFGSVPFTKNPEKYIKYGVEQVGDMID
RLFDTSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8037_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001145299

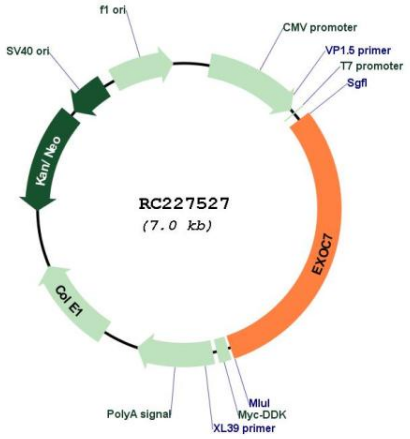
ORF Size: 2121 bp

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

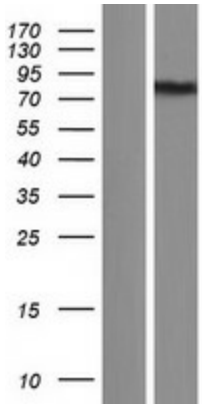
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001145299.4
RefSeq ORF:	2124 bp
Locus ID:	23265
UniProt ID:	Q9UPT5
Cytogenetics:	17q25.1
Protein Families:	Druggable Genome
Protein Pathways:	Insulin signaling pathway
MW:	80.5 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]

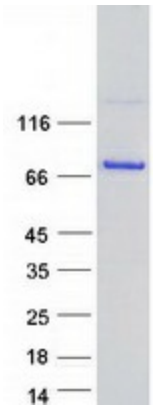
Product images:



Circular map for RC227527



Western blot validation of overexpression lysate (Cat# [LY428803]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227527 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EXOC7 protein (Cat# [TP327527]). The protein was produced from HEK293T cells transfected with EXOC7 cDNA clone (Cat# RC227527) using MegaTran 2.0 (Cat# [TT210002]).