

Product datasheet for **RC239229**

EXOC7 (NM_001282313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC7 (NM_001282313) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXOC7
Synonyms:	2-5-3p; BLOM4; EX070; EXO70; Exo70p; EXOC1; NEDSEBA; YJL085W
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239229 representing NM_001282313
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTCTATCTTATCATCCTTTGAGAGCCGCTTATGAAGCTGGAGAACTCCATCATCCCTGTGCACA
AGCAGACGGAGAATCTGCAGCGCTGCAGGAGAATGTTGAGAAGACGCTGTCTGCCTGGACCATGTCAT
CAGCTACTACCATGTGGCCAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAG
TACCTGGGAAGCATGGCCAAGATTGAGAAGGAGTGGAGTATTTCCAGGACAACAGCCCAGACAGCCGG
AACTCAACAAAGTGAAACTGCTCTTTGAGCGCGGGAAGGAGGCCCTGGAGTCCGAATTTGCGAGCCTGAT
GACGCGGCACAGTAAGGTCGTCTCGCCGTGCTCATCTTGGATCTGATCAGTGGTGACGATGATCTGGAG
GCCAGGAGGACGTGACCCTGGAGCACCTGCCGAGAGCGTGTCCAGGATGTCATTGCGATCTCCCGCT
GGCTGGTGAATATGGCCGAACCAAGATTTTCATGAACGTCTACTACCAGATACGCTCCAGCCAGCTGGA
CCGCTCCATCAAAGGACTGAAGGAGCATTTCATGAAGCAGTCTTCTCTGGGGTTCCCTACTCCCT
GCTATCCCAACAAGAGGAAAGACACACCTACCAAGAAGCCAGTCAAGCGCCAGGGACGATCCGTAAAG
CTCAGAACCTTCTGAAACAGTATTTCCAGCATGGTCTAGATGGGAAAAAGGGGGCTCTAACCTCATTCC
TCTGGAAGGGAGAGATGACATGCTGGACGTGGAGACCGATGCCTACATCCACTGCGTCAGTGCCTTCGTC
AAGCTGGCGCAGAGCGAGTACCAGCTGTGGCCGACATCATCCCCGAGCACCACCAGAAGAAGACCTTCG
ACTCCCTGATACAGGATGCCCTGGATGGCTGATGCTTGAAGGGGAGAACATCGTGTCTGCTGCCGGAA
GGCCATTGTGCGACAGACTTCTCCACGGTGTACCGTCTTCCCATCCTGCGACACCTCAAGCAGACC
AAGCCTGAGTTTGACCAGGTGCTCCAGGGCAGGCTGCCAGCACAAGAACAAGCTGCCTGGCCTCATCA
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CCGGGAGTCAAGTCCGGGACAAGGAGCGGAGATTATCAAGGAGCGTTTTAAGGGCTTCAATGATGGCC
TCGAAGAAGTGTGCAAAATCCAGAAGGCCTGGGCTATTCCAGACACAGAGCAGAGGGACAGGATTCGCCA
GGCCAGAAAGACCATTGTCAAGGAGACCTACGGGGCTTTCTACAGAAGTTTGGCAGCGTGCCCTTACC
AAGAACCAGGAGAAGTACATCAAGTACGGGGTGGAGCAGGTGGGCGACATGATCGATCGCCTTTTCGACA
CCTCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239229 representing NM_001282313
 Red=Cloning site Green=Tags(s)

MVSI LSS FES RLM KLE NSI I PVHK QTEN LQRL QEN VEK TLS CLDH V I SYHV AS DTE KI I REG PTGR LEE
 YLGS MAKI QK AVE YFQ DNSP DSP ELNKVKLL FER GKE ALE SEFR SLM TRH SKV VSPV L I LD L ISG DDD LE
 AQED VTL EHL PES VLQ DVIR I SRWL VEYGR NQDFMNVYYQIRSSQLDRS I KGLKEHFH KSSSSSGVPYSP
 AIPNKRKDTPTKKPVKRPGTIRKAQNLLKQYSQHGLDGKKGGSNLIPL EGRDDMLDVETDAYIHCVSAFV
 KLAQSEYQLLADIPEHHQKTFDSL IQDALDGLMLEGENIVSAARKAIVRHDFSTVLTVPILRHLKQT
 KP EFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNPDPKEYNMPKDGTVHELTSNAILFLQQ
 LLD FQETAGAMLASQVLGDTYNIPLDPRETSSSATSY SSEFSKRLLSTYICKVLGNLQNLNLSKSKYVED
 PALSAIFLHNNYNYILKSLEKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLVVFQ
 PGVKLRDKERQIIKERFKGFNDGLEELCKIQKAWAIPDTEQRDRIRQAQKTIVKETYGAFLQKFGSPVPT
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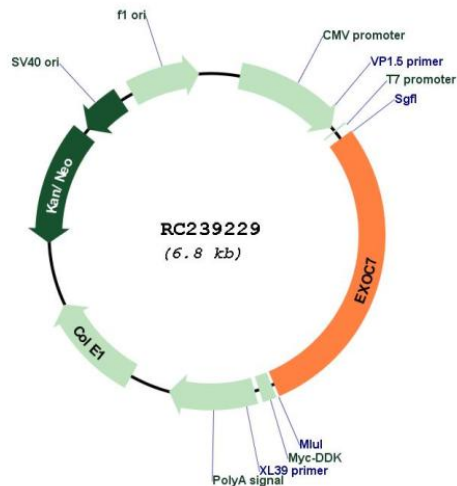
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282313

ORF Size: 1968 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_001282313.1](#), [NP_001269242.1](#)

RefSeq Size: 4834 bp

RefSeq ORF: 1971 bp

Locus ID: 23265

UniProt ID: [Q9UPT5](#)

Cytogenetics: 17q25.1

Protein Families: Druggable Genome

Protein Pathways: Insulin signaling pathway

MW: 75.1 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]