

Product datasheet for **RG222329**

EXOC7 (NM_015219) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC7 (NM_015219) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EXOC7
Synonyms:	2-5-3p; BLOM4; EX070; EXO70; Exo70p; EXOC1; NEDSEBA; YJL085W
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG22329 representing NM_015219
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCCCACAGGAGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGAGA
 CTCTGTCCCTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATC
 ATCCTTTGAGAGCCGCTTATGAAGCTGGAGAAGTCCATCATCCCTGTGACAAGCAGACGGAGAATCTG
 CAGCGGCTGCAGGAGAATGTTGAGAAGACGCTGTCTGCTGGACCATGTCATCAGCTACTACCATGTGG
 CCAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGCATGGC
 CAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAGCCAGACAGCCGGAAGTCAACAAAGTGAAA
 CTGCTCTTTGAGCGCGGAAGGAGGCCCTGGAGTCCGAATTTCCGAGCCTGATGACGCGGCACAGTAAGG
 TCGTCTCGCCCGTCTCATCTTGGATCTGATCAGTGGTACGATGATCTGGAGGCCAGGAGGACGTGAC
 CCTGGAGCACCTGCCCGAGAGCGTGTCCAGGATGTCATTCCGATCTCCCGCTGGCTGGTGAATATGGC
 CGCAACCAAGATTTTCATGAACGTCTACTACCAGATACGCTCCAGCCAGCTGGACCGCTCCATCAAAGGAC
 TGAAGGAGCATTTCATGAAGAGCAGTTCTCTCTGGGGTTCCCTACTCCCTGTCTATCCCCAACAAAGAG
 GAAAGACACACCTACCAAGAAGCCAGTCAAGCGGCCAGGGAGAGATGACATGCTGGACGTGGAGACCGAT
 GCCTACATCCACTGCGTCAAGTGCCTTTCGTAAGCTGGCGCAGAGCGAGTACCAGCTGCTGGCCGACATCA
 TCCCGGAGCACCACAGAAGAAGACCTTCGACTCCCTGATACAGGATGCCTGGATGGGCTGATGCTTGA
 AGGGGAGAACATCGTGTCTGTGCTGCCCGGAAGGCCATTGTGCGACACGACTTCTCCACGGTGTCCACGTC
 TCCCCATCCTGCGACACCTCAAGCAGACCAAGCCTGAGTTTGACCAGGTGTCCAGGCGCACGGCTGCCA
 GCACAAAGAACAAGCTGCCTGGCCTCATACATCCATGGAGACCATCGGTGCCAAAGCGCTGGAGGACTT
 CGCAGACAACATCAAGAATGACCCGGACAAGGAGTACAACATGCCGAAGGACGGCACCGTACACGAGCTC
 ACCAGCAATGCCATCCTCTTCTGTCAGCAGCTTTTGGACTTCCAGGAGAGCGCAGGCCATGCTGGCCT
 CCCAAGAGACCAGCTCTTCGGCCACCAGCTACAGCTCTGAGTTCCAGCAAGCGGCTGCTAAGCACCTATAT
 CTGTAAAGTGCTGGGCAACCTGCAGTTGAAGTGTGCTGAGCAAGTCCAAGGTGTACGAGGACCCAGCTCTG
 AGCGCCATCTTCTGCACAACAATAAATTACATCCTCAAGTCCCTGGAGAAGTCTGAAGTATCCAGC
 TGGTGGCAGTGACACAGAAGACTGCTGAGCGCTCCTACCGGGAGCACATTGAGCAGCAGATCCAGACCTA
 CCAGCGCAGCTGGTTAAAGGTGACTGATTACATCGCAGAGAAGAATCTACCTGTGTTCCAGCCGGGAGTC
 AAGCTCCGGGACAAGGAGCGGCAGATTATCAAGGAGCGTTTTAAGGGCTCAATGATGGCCTCGAAGAAC
 TGTGCAAAATCCAGAAGGCTGGGCTATTCCAGACACAGAGCAGAGGGACAGGATTTCGCCAGGCCAGAA
 GACCATTGTCAAGGAGACCTACGGGGCCTTTCTACAGAAGTTTGGCAGCGTGCCTTCCACCAAGAACCCG
 GAGAAGTACATCAAGTACGGGGTGGAGCAGGTGGGCGACATGATCGATCGCCTTTTCGACACCTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG22329 representing NM_015219
 Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLGQEEETLSFIRDSLEKSDQLTKNMVSISSSFESRLMKLENSIIPVHKQTENL
 QRLQENVEKTLSCLDHVISYHVASDTEKIIREGPTGRLEEYLGSMKIQKAVEYFQDNSPDPELNKVK
 LLFERGKEALESEFRSLMTRHRSKVVSPVLILDLSGDDLEAQEDVTLHLPEVLDVIRISRWLVEYG
 RNQDFMNVYQIRSSQLDRSIKGLKEHFHKSSTSSGVPYSPAIPNKRKDTPTKPKVPRGRDDMLDVETD
 AYIHCVSFAFKLAQSEYQLLADIIPHHQKKTDFSLIQDALDGLMLEGENIVSAARKAIVRHDFSTVLT
 FPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNDPDKKEYNMPKDGTVHEL
 TSNAILFLQQLDFQETAGAMLASQETSSSATSYSSEFSKRLSTYICKVLGNLQNLNLLSKSKVYEDPAL
 SAIFLHNNYNYILKSLEKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFPQGV
 KLRDKERQIIKERFKGFNDGLEELCKIQKAWAIPDTEQRDRIRQAQKTIKETYGAFLQKFGVSPFTKPN
 EKYIKYGVQVGMIDRLFDTS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_015219

ORF Size: 1959 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_015219.5](#)

RefSeq Size: 4687 bp

RefSeq ORF: 1962 bp

Locus ID: 23265

UniProt ID: [Q9UPT5](#)

Cytogenetics: 17q25.1

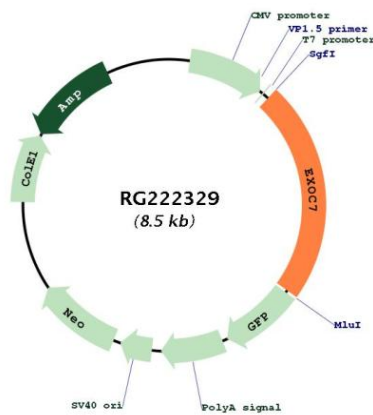
Domains: Exo70

Protein Families: Druggable Genome

Protein Pathways: Insulin signaling pathway

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 RG222329