

## Product datasheet for **RG227511**

### **EXOC7 (NM\_001145298) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EXOC7 (NM_001145298) 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:**

>RG227511 representing NM\_001145298  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCCCCACAGGAGGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGAGA  
 CTCTGTCTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATC  
 ATCCTTTGAGAGCCGCTTATGAAGCTGGAGAACTCCATCATCCCTGTGACAAGCAGACGGAGAATCTG  
 CAGCGGCTGCAGGAGAATGTTGAGAAGACGCTGTCTGCCTGGACCATGTCATCAGCTACTACCATGTGG  
 CCAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGCATGGC  
 CAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAGCCCAGACAGCCCGGAAGTCAACAAAGTGAAA  
 CTGCTCTTTGAGCGGGGAAGGAGGCCCTGGAGTCCGAATTTCCGAGCCTGATGACGCGGCACAGTAAGG  
 TCGTCTCGCCCGTCTCATCTTGGATCTGATCAGTGGTGACGATGATCTGGAGGCCAGGAGGACGTGAC  
 CCTGGAGCACCTGCCCGAGAGCGTGTCCAGGATGTCATTCCGATCTCCCGCTGGCTGGTGAATATGGC  
 CGCAACCAAGATTCATGAACGTCTACTACCAGATACGCTCCAGCCAGCTGGACCCTCCATCAAAGGAC  
 TGAAGGAGCATTTCATGAAGAGCAGTTCTTCTCTGGGGTTCCCTACTCCCTGTCTATCCCCAACAGAG  
 GAAAGACACACCTACCAAGAAGCCAGTCAAGCGGCCAGGTACGAGCATGATTTCCGAGTTAAGCACCTG  
 TCCGAGGCCTTGAACGACAAGCAGGGCCGCTGGCCGGGAGAGATGACATGCTGGACGTGGAGACCAGT  
 CCTACATCCACTGCGTCAGTGCCTTCGTCAGCTGGCGCAGAGCGAGTACCAGCTGCTGGCCGACATCAT  
 CCCCAGCACCACCAGAAGAAGACCTTCGACTCCCTGATACAGGATGCCCTGGATGGGCTGATGCTTGAA  
 GGGGAGAACATCGTGTCTGCTGCCCGGAAGGCCATTGTGCGACACGACTTCTCCACGGTGTCCACCGTCT  
 TCCCCATCCTGCGACACCTCAAGCAGACCAAGCCTGAGTTTGACCAGGTGCTCCAGGGCACGGCTGCCAG  
 CACAAAGAACAAGCTGCCTGGCCTCATCACATCCATGGAGACCATCGGTGCCAAAGCGCTGGAGGACTTC  
 GCAGACAACATCAAGAATGACCCGGACAAGGAGTACAACATGCCGAAGGACGGCACCGTACACGAGCTCA  
 CCAGCAATGCCATCCTCTTCTGACGACGCTTTTGGACTTCCAGGAGACGGCAGGCGCCATGCTGGCCTC  
 CCAAGAGACCAGCTCTTCGGCCACCAGCTACAGCTCTGAGTTCAGCAAGCGGCTGCTAAGCACCTATATC  
 TGTAAAGTGTGGGCAACCTGCAGTTGAACTTGTGAGCAAGTCCAAGGTGTACGAGGACCCAGCTCTGA  
 GCGCCATCTTCTGCACAACAATAAATTACATCCTCAAGTCCCTGGAGAAGTCTGAACTGATCCAGCT  
 GGTGGCAGTGACACAGAAGACTGCTGAGCGCTCCTACCGGAGCACATTGAGCAGCAGATCCAGACCTAC  
 CAGCGCAGCTGGTTAAAGGTGACTGATTACATCGCAGAGAAGAATCTACCTGTGTTCCAGCCGGGAGTCA  
 AGCTCCGGGACAAGGAGCGGCAGATTATCAAGGAGCGTTTTAAGGGCTTCAATGATGGCCTCGAAGAAT  
 GTGCAAAATCCAGAAGGCTGGGCTATTCCAGACACAGAGCAGAGGGACAGGATTCCGCCAGGCCAGAA  
 ACCATTGTCAAGGAGACCTACGGGGCTTTCTACAGAAGTTTGGCAGCGTGCCCTTACCAAGAACCCGG  
 AGAAGTACATCAAGTACGGGGTGGAGCAGGTGGGCGACATGATCGATCGCTTTTCGACACCTCTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227511 representing NM\_001145298  
 Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLKQEEETLSFIRDSLEKSDQLTKNMVSISSSFESRLMKLENSIIPVHKQTENL  
 QRLQENVEKTLSCLDHVISYYHVASDTEKIIREGPTGRLEEYLGSMKIQKAVEYFQDNPSDPELNKVK  
 LLFERGKEALESEFRSLMTRHSHKVVSPVILDLISGDDLEAQEDVTLEHLPESVLQDVIRISRWLVEYG  
 RNQDFMNVYYQIRSSQLDRSIKGLKEHFHKSSSSSGVPYSPAIPNKRKDTPTKKPVKRPGHEHDFRVKHL  
 SEALNDKHGPLAGRDDMLDVETDAYIHCVSFAFKLAQSEYQLLADIPEHHQKKTFDLSLIQDALDGLMLE  
 GENIVSAARKAIVRHDFSTVLTVFPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDF  
 ADNIKNDPKKEYNMPKDGTVHELTSNAILFLQQLLDFQETAGAMLASQETSSSATSYSSEFSKRLLSTYI  
 CKVYGLNLQLNLLSKSKVYEDPALSAIFLHNNYNYILKSLEKSEL IQLVAVTQKTAERSYREHIEQQIQTY  
 QRSWLKVTDYIAEKNLPVFPQPGVKLRDKERQIIKERFKGFNDGLEELCKIQKAWAIPDTEQRDRIRQAQK  
 TIVKETYGAFLQKFGSVPFTKNPEKYIKYGVEQVGMIDRLFD TSA

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001145298

**ORF Size:** 2028 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\\_001145298.4](#)

**RefSeq Size:** 4763 bp

**RefSeq ORF:** 2031 bp

**Locus ID:** 23265

**UniProt ID:** [Q9UPT5](#)

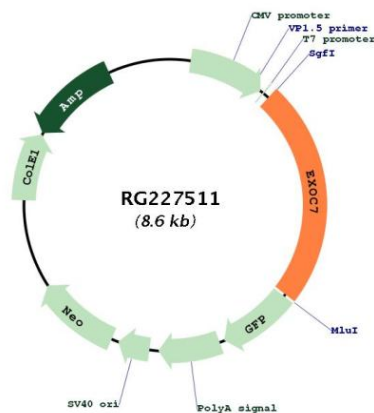
**Cytogenetics:** 17q25.1

**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 RG227511