

## Product datasheet for **RG227527**

### **EXOC7 (NM\_001145299) Human Tagged ORF Clone**

#### **Product data:**

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

>RG227527 representing NM\_001145299  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTCCCCACAGGAGGCATCCGCTCGACGGCGGGAGATTGAGGACAAGCTGAAGCAGGAGGAGAGA  
 CTCTGTCTTCATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAAGAACATGGTGTCTATCTTATC  
 ATCCTTTGAGAGCCGCTTATGAAGCTGGAGAAGTCCATCATCCCTGTGACAAGCAGACGGAGAATCTG  
 CAGCGGCTGCAGGAGAATGTTGAGAAGACGCTGTCTGCCTGGACCATGTCATCAGCTACTACCATGTGG  
 CCAGTGACACTGAGAAGATCATCAGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGCATGGC  
 CAAGATTCAGAAGGCAGTGGAGTATTTCCAGGACAACAGCCAGACAGCCCGGAAGTCAACAAAGTGAAA  
 CTGCTCTTTGAGCGGGGAAGGAGGCCCTGGAGTCCGAATTTGCGAGCCTGATGACGCGGCACAGTAAGG  
 TCGTCTCGCCCGTCTCATCTTGGATCTGATCAGTGGTACGATGATCTGGAGGCCAGGAGGACGTGAC  
 CCTGGAGCACCTGCCCGAGAGCGTGTCCAGGATGTCATTGCGATCTCCCGCTGGCTGGTGAATATGGC  
 CGCAACCAAGATTTTCATGAACGTCTACTACCAGATACGCTCCAGCCAGCTGGACCCTCCATCAAAGGAC  
 TGAAGGAGCATTTCCATAAGAGCAGTTCTTCTCTGGGGTTCCCTACTCCCTGCTATCCCCAACAGAG  
 GAAAGACACACCTACCAAGAAGCCAGTCAAGCGGCCAGGGACGATCCGTAAGGCTCAGAACCTTCTGAAA  
 CAGTATTTCCAGCATGGTCTAGATGGGAAAAAGGGGGCTCTAACCTCATTCTCTGGAAGGTCACGAGC  
 ATGATTTCCGAGTTAAGCACCTGTCCGAGGCCCTGAACGACAAGCACGGGCCGCTGGCCGGGAGAGATGA  
 CATGCTGGACGTGGAGACCGATGCTACATCCACTGCGTCAGTGCCTTCGTCAGCTGGCGCAGAGCGAG  
 TACCAGCTGCTGGCCGACATCATCCCGAGCACCACCAGAAGAAGACCTTCGACTCCCTGATACAGGATG  
 CCCTGGATGGGCTGATGCTTGAAGGGGAGAACATCGTGTCTGCTGCCCGGAAGGCCATTGTGCGACACGA  
 CTCTCCACGGTGTCTACCGTCTTCCCATCCTGCGACACCTCAAGCAGACCAAGCCTGAGTTTGACCAG  
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 GTGCCAAAGCGCTGGAGGACTTCGCAGACAACATCAAGAATGACCCGGACAAGGAGTACAACATGCCGAA  
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 AGCGGCTGCTAAGCACCTATATCTGTAAGTGCTGGGCAACCTGCAGTTGAACTTGCTGAGCAAGTCCAA  
 GGTGTACGAGGACCCAGCTCTGAGCGCCATCTTCTGCACAACAACATAATTACATCCTCAAGTCCCTG  
 GAGAAGTCTGAACTGATCCAGCTGGTGGCAGTGACACAGAAGACTGCTGAGCGCTCTACGGGAGCACA  
 TTGAGCAGCAGATCCAGACCTACCAGCGCAGCTGGTTAAAGGTGACTGATTACATCGCAGAGAAGAATCT  
 ACCTGTGTTCCAGCCGGGAGTCAAGCTCCGGGACAAGGAGCGGCAGATTATCAAGGAGCGTTTTAAAGGGC  
 TTCAATGATGGCCTCGAAGAAGTGTGCAAAATCCAGAAGGCTGGGCTATTCCAGACACAGAGCAGAGGG  
 ACAGGATTCGCCAGGCCAGAAGACCATTTGTCAGGAGACCTACGGGGCCTTTCTACAGAAGTTTGGCAG  
 CGTGCCCTTACCAAGAACCCGGAGAAGTACATCAAGTACGGGGTGGAGCAGGTGGGCGACATGATCGAT  
 CGCCTTTTCGACACCTCTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG227527 representing NM\_001145299  
 Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLKQEEETLSFIRDSLEKSDQLTKNMVSISSSFESRLMKLENSIIPVHKQTENL  
 QRLQENVEKTLSCLDHVISYYHVASDTEKIIREGPTGRLEEYLGSMAIQKAVEYFQDNPSPELNKVK  
 LLFERGKEALESEFRSLMTRHSHKVVSPVLIDLISGDDLEAQEDVTLLEHLPESVLQDVIRISRWLVEYG  
 RNQDFMNVYYQIRSSQLDRSIKGLKEHFHKSSSSSGVPSAIPNKRKDTPTKKPVKRPGTIRKAQNLLK  
 QYSQHGLDGKKGGSNLIPLEGHEHDFRVKHLSEALNDKHGPLAGRDDMLDVETDAYIHCVSFAVKLAQSE  
 YQLLADIPEHHQKKTFDLSLIQDALDGLMLEGENIVSAARKAIVRHDFSTVLTVPILRHLKQTKPEFDQ  
 VLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNPDKEYNMPKDGTVHELTSNAILFLQQLLDFQE  
 TAGAMLASQETSSSATSYSSEFSKRLSTYICKVLGNLQLNLLSKSKVYEDPALSAIFLHNNYNYILKSL  
 EKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLVFPQPGVKLRDKERQIIKERFKG  
 FNDGLEELCKIQAWAIPDTEQRDRIRQAQKTI VKETYGAFLQKFGSVPFTKNPEKYIKYGVQVGMID  
 RLFDTSA

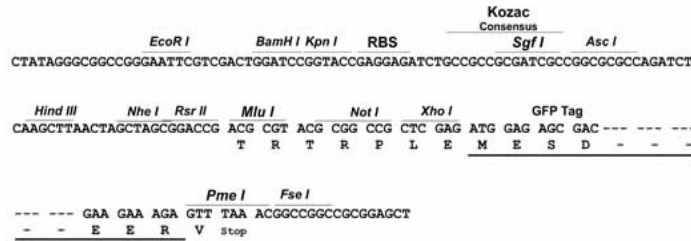
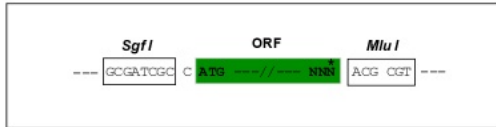
TRTRPLE - GFP Tag - V

**Restriction Sites:**

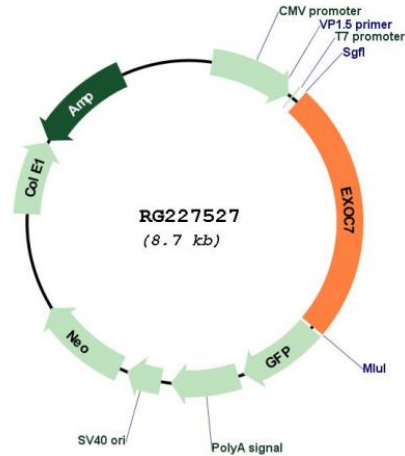
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



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 Size: 4856 bp

RefSeq ORF: 2124 bp

<b>Locus ID:</b>	23265
<b>UniProt ID:</b>	<a href="#">Q9UPT5</a>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Insulin signaling pathway
<b>Gene Summary:</b>	<p>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]</p>