

## Product datasheet for **RG209413**

### **EXOC3 (NM\_007277) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EXOC3 (NM_007277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EXOC3
Synonyms:	SEC6; SEC6L1; Sec6p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG209413 representing NM\_007277  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAGGAGACAGACCGGGAGGCCGTTGCGACAGCAGTGCAAAGGTTGCTGGGATGCTCCAGCGCCGG  
 ACCAGCTGGACAAGGTGGAGCAGTATCGCAGGAGAGAAGCGCGGAAGAAGGCCTCCGTGGAGGCCAGATT  
 GAAGGCCGCCATCCAGTACAGTTGGACGGGTGCGCACAGGCCCTCAGCCAGCTCCACAACGCCCTGAAT  
 GACGTCAAAGACATCCAGCAGTCGCTGGCAGACGTGAGCAAGGACTGGAGGCAGAGCATCAACACCATTG  
 AGAGCCTCAAGGACGTCAAAGACGCCGTGGTGCAGCACAGCCAGCTCGCCGACGCCGTGGAGAACCTCAA  
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 GGTCTCCACTCTGGTCAAGTATCCAGACATCAGGGATGACCACATCGGTGCGCTGCTGGCTGTGCGT  
 GGGGACGCCAGCCGTGACATGAAGCAGACCATCATGGAGACCTGGAGCAGGGCCAGCACAGGCCAGCC  
 CCAGCTACGTGCCCTCTTCAAGGACATTGTGGTGCCAGCCTGAACGTGGCCAAGCTGCTCAAG

AGCG**ACCG**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG209413 representing NM\_007277  
 Red=Cloning site Green=Tags(s)

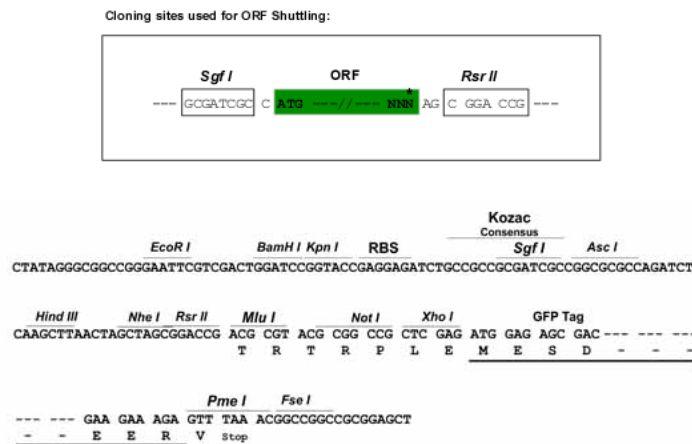
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MKETDREAVATAVQRVAGMLQRPDQLDKVEQYRRREARKKASVEARLKAATQSQLDGVRTGLSQLHNALN
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AHRKLMDLCECSRDLMEYQYRMDSGNTRDRTLHGYFGSTQGLSDELAKQLWMVLQSRSLVTVRRDPTLLV
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IIRKYVLLDGLIVAKNLMVQCFFPHYEIFKNLLNMYHQALSTRMQDLASEDLEANEIVSLLTWVLTNTYST
EMMRNVELAPEVDVGTLEPLLSPHVSELLDITYMSTLTSNIIAWLRKALETDKKDWVKETEPEADQDGY
QTTLPPIVFMFEQNLQVAAQISEDLTKVLVLCQMMNSFLSRYKDEAQLYKEEHLNRNQHPCYVQYM
IAIINNQTQFKESIVSLKRKYLKNEVEEGVSPSQPSMDGILDAIAKEGCSGLLEEVFLDLEQHLNELMTK
KWL LGSNAVDIICVTVEDYFNDFAKIKKPYKKRMTAEARRRVVEYLRAVMQKRISFRSPEERKEGAEKM
VREAEQLRFLFRKLASGFEDVDGYCDTIVAVAEVIKLTDPSSLYLEVSTLVSKYPDIRDDHIGALLAVR
GDASRDMKQTIMETLEQGAQASPSYVPLFKDIVVPSLNVAKLLK
  
```

SGPTRRRLE - GFP Tag - V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_007277

**ORF Size:** 2235 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\\_007277.4](#), [NP\\_009208.2](#)

**RefSeq Size:** 2774 bp

**RefSeq ORF:** 2238 bp

**Locus ID:** 11336

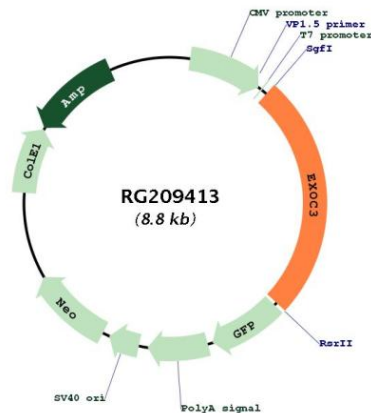
**UniProt ID:** [O60645](#)

**Cytogenetics:** 5p15.33

**Protein Pathways:** Tight junction

**Gene Summary:** The protein encoded by this gene is a component of the exocyst complex, a multiple protein complex essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Though best characterized in yeast, the component proteins and functions of exocyst complex have been demonstrated to be highly conserved in higher eukaryotes. At least eight components of the exocyst complex, including this protein, are found to interact with the actin cytoskeletal remodeling and vesicle transport machinery. The complex is also essential for the biogenesis of epithelial cell surface polarity. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG209413