

Product datasheet for **RG207906**

EXOC5 (NM_006544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	EXOC5
Synonyms:	HSEC10; PRO1912; SEC10; SEC10L1; SEC10P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG207906 representing NM_006544
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTACCACGGCCGAGCTCTTCGAGGAGCCTTTTGTGGCAGATGAATATATTGAACGTCTTGATGGA
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 TTGATACTCTGCATGCTCTTTGCAATCTTCTGGTAGTTGCCCCAGATAATTTAAAGCAAGTCTGCTCAGG
 AGAACCACTTGCTAATCTGGACAAGAATACTTCACTCCTTCGTACAACCTTCGTGCTGATTATAGATCT
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

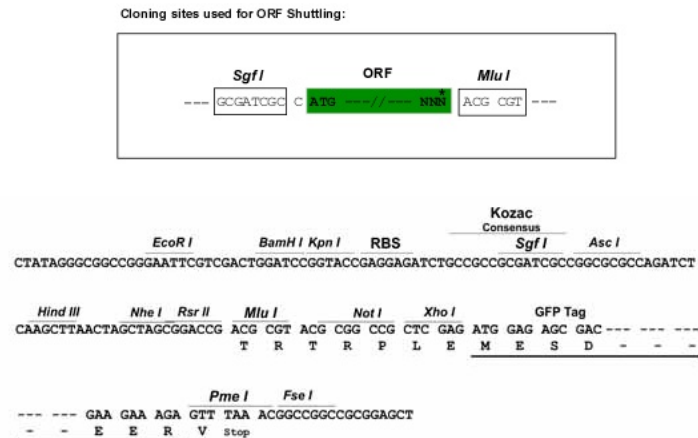
Protein Sequence: >RG207906 representing NM_006544
 Red=Cloning site Green=Tags(s)

MATTAELFEFPVADEYIERLVWRTPGGSGRGPEAFDPKRLLLEFVNHIQELQIMDERIQRKVEKLEQQ
 CQKEAKEFAKKVQELQKSNQVAFQHFQELDEHISYVATKVCHLGDQLEGVNTPRQRAVEAQKLMKYFNEF
 LDGELKSDVFTNSEKIKEAADIIQKLHLIAQELPDRFSEVSKIASKYHDLQELIQEFTSAQRRGEIS
 RMREVAAVLLHFKGYSHCVVYIKQCQEGAYLRNDFEDAGILCQRVNKQVGDIFSNPETVLAKLIQNVF
 EIKLQSFVKEQLEECRKSDAEQYLKNLYDLYTRTTNLSKLMFNLGTDKQTFLSKLKISIFISYLENYI
 EVETGYLKSRSAMILQRYYDSKNHQKRSIGTGGIQLKERIRQRTNPLGPSIDTHGETFLSQEVVNNLL
 QETKQAFERCHRLSDPSDLPRNAFRIFTILVEFLCIEHIDYALETGLAGIPSSDSRNANLYFLDVVQQAN
 TIFHLFDKQFNDHLMPLISSPKLSECLQKKKEIEQMEMKLDTGIDRTLNCMIRQMKHILAAEQKKTDF
 KPEDENNVLIQYTNACVKVCAYVRKQVEKIKNSMDGKNVDVLMELGVRFHRLIYEHLQQYSYSCMGGM
 AICDVAEYRKCAKDFKIPMLHLFDLHALCNLLVVAPDNLKQVCSGEQLANLDKNILHSFVQLRADYRS
 ARLARHFS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006544

ORF Size: 2124 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.

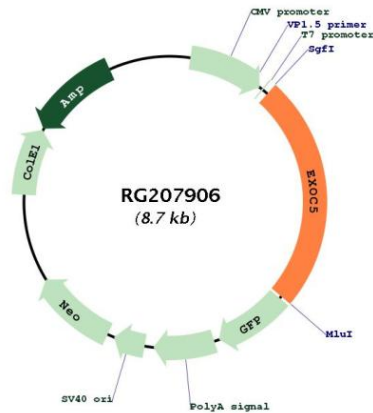
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006544.3](#), [NP_006535.1](#)

RefSeq Size: 8522 bp
 RefSeq ORF: 2127 bp
 Locus ID: 10640
 UniProt ID: [O00471](#)
 Cytogenetics: 14q22.3

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 RG207906