

Product datasheet for **RG204452**

SEC62 (NM_003262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC62 (NM_003262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEC62
Synonyms:	Dtrp1; HTP1; TLOC1; TP-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204452 representing NM_003262 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGCGGAACGCAGGAGACACAAGAAGCGGATCCAGGAAGTTGGTGAACCATCTAAAGAAGAGAAGGCTG
 TGGCCAAGTATCTTCGATTCAACTGTCCAACAAAGTCCACCAATATGATGGGTACCGGGTTGATTATTT
 TATTGCTTCAAAGCAGTGGACTGTCTTTGGATTCAAAGTGGGCAAAGGCCAAGAAAGGAGAGGAAGCT
 TTATTTACAACCGGGAGTCTGTGGTTGACTACTGCAACAGGCTTTTAAAGAAGCAGTTTTTTCACCGAG
 CCCTAAAAGTAATGAAAATGAAATATGATAAAGACATAAAGAAAGAAAAAGATAAAGGAAAAGCTGAAAG
 TGGAAAAGAAGAAGATAAAAAGAGCAAGAAAGAAATATAAAGGATGAGAAGACAAAAAGAAAAAGAG
 AAAAAAAGATGGTGAAGGAAGAATCCAAAAAGGAGGAACTCCAGGAACTCCTAAAAAGAAGGAAA
 CTAAGAAAAAATCAAACCTTGAGCCACATGATGATCAGGTTTTCTGGATGGAAATGAGGTGTATGTATG
 GATCTATGACCCAGTTCACCTTTAAACATTTGTCATGGGATTAATTCTTGTGATTGCAGTAATAGCGGCC
 ACCCTCTTCCCCCTTTGGCCAGCAGAAATGAGAGTAGGTGTTTATTACCTCAGTGTGGGTGCAGGCTGTT
 TTGTAGCCAGTATTCTTCTCCTTGCTGTTGCTCGATGCATTCTATTTCTCATCATTTGGCTCATACTGG
 AGGAAGGCACCACTTTTGGTTCTTGCCAAATCTGACTGCTGATGTGGGCTTCATTGACTCCTTCAGGCCT
 CTGTACACACATGAATACAAAGGACCAAAAGCAGACTTAAGAAAGATGAGAAGTCTGAAACCAAAAAGC
 AACAGAAGTCCGACAGTGAGGAAAAGTCAGACAGTGAGAAAAAGGAAGATGAGGAGGGGAAAGTAGGACC
 AGGAAATCATGGAACAGAAGGCTCGGGGGGAGAACGGCATTAGACACGGACAGTGACAGGAGGGAAGAT
 GATCGATCCCAGCACAGTAGTGGAATGGAATGATTTTGAAATGATAACAAAAGAGGAAGTGAACAGC
 AAACAGATGGGGATTGTGAAGAGGATGAGGAAGAGGAAAATGATGGAGAAACACCTAAATCTTCACATGA
 AAAATCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG204452 representing NM_003262
 Red=Cloning site Green=Tags(s)

MAERRRHKKRIQEVGEPSKEEKAVAKYLRFCPTKSTNMMGHRVDYFIASKAVDCLLDSKWAKAKKGEEA
 LFTTRESVVDYCNRLKKQFFHRALKVMKMYDKDIKKEKDKGAESGKEEDKSKKENIKDEKTKKEKE
 KKKDGEKEESKKEETPGTPKKKETKKFKLEPHDDQVFLDGNVYVWIYDPVHFKTFFVGLILVIAVIAA
 TLFPLWPAEMRVGVYLLSVGAGCFVASILLAVARCILFLIIWLITGGRHHFWFLPNLTADVGFIDSRFP
 LYTHEYKGPADLKKDEKSETKKQKSDSEKSDSEKKEDEEGKVGPGNHGTEGSGGERHSDTDSRRRED
 DRSQHSSGNGNDFEMITKEELEQQTGDGCEDEEEENDGETPKSSHEKS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_003262

ORF Size: 1197 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_003262.4](#)

RefSeq Size: 6541 bp

RefSeq ORF: 1200 bp

Locus ID: 7095

UniProt ID: [Q99442](#)

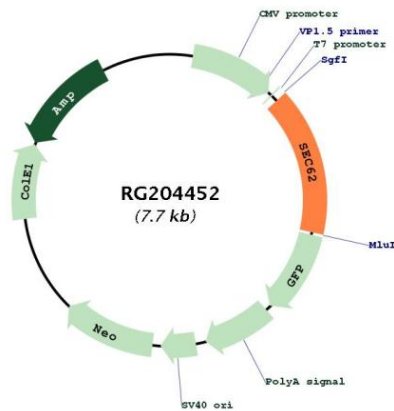
Cytogenetics: 3q26.2

Domains: Sec62

Protein Families: Druggable Genome, Transmembrane

Gene Summary: The Sec61 complex is the central component of the protein translocation apparatus of the endoplasmic reticulum (ER) membrane. The protein encoded by this gene and SEC63 protein are found to be associated with ribosome-free SEC61 complex. It is speculated that Sec61-Sec62-Sec63 may perform post-translational protein translocation into the ER. The Sec61-Sec62-Sec63 complex might also perform the backward transport of ER proteins that are subject to the ubiquitin-proteasome-dependent degradation pathway. The encoded protein is an integral membrane protein located in the rough ER. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204452