

Product datasheet for RC211593

SEC24B (NM_006323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEC24B (NM_006323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC24B
Synonyms:	SEC24
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC211593 representing NM_006323 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC211593 representing NM_006323
 Red=Cloning site Green=Tags(s)

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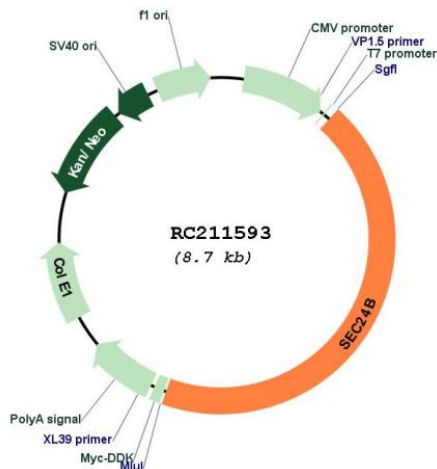
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_006323

ORF Size: 3804 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_006323.1](#), [NP_006314.1](#)

RefSeq Size: 4758 bp

RefSeq ORF: 3807 bp

Locus ID: 10427

UniProt ID: [O95487](#)

Cytogenetics: 4q25

Domains: zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin

MW: 137.2 kDa

Gene Summary: The protein encoded by this gene is a member of the SEC24 subfamily of the SEC23/SEC24 family, which is involved in vesicle trafficking. The encoded protein is thought to be a cargo-binding component of the COPII vesicle, and is thought to be involved in the transport of secretory proteins from the endoplasmic reticulum to the Golgi apparatus. Mutations in this gene have been associated with neural tube defects, and are thought to be a result of a disruption in interactions with the protein encoded by the VANGL planar cell polarity protein 2 (VANGL2) gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]