

## Product datasheet for **MC205785**

### Sec63 (NM\_153055) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec63 (NM_153055) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sec63
Synonyms:	5730478J10Rik; A1649014; AW319215
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC019366  
 CCGACGCGTGGGCGGGAGGAGGCGGAGCCATGGCGGGCCAGCAGTTCAGTACGATGACAGCGGGA  
 ACACCTTCTTCTACTTCTCACCTCCTTCGTGGGGCTCATCGTGATCCCCGCCACCTACTACCTCTGGCC  
 ACGAGACCAGAACGCGGAGCAAATTCGATTAAGAATATCAGAAAAGTATATGGAAGATGTATGTGGTAT  
 CGTTTACGGTTATTAACCCAGCCAAATATTTCCTACAGTAAAGAAAATAGTTCTGCTTGCAGGAT  
 GGGCACTGTTCTTATTTCTTGCATACAAAGTTTCCAAAACAGACCAGAAATCAAGAGTACAATCCTTA  
 TGAAGTACTAAATTTGGATCCTGGAGCAACAGTGGCAGAAATTAAGAAACAGTATCGCTTGTGTCACT  
 AAATATCATCCAGATAAAGGAGGTGATGAAGTCATGTTTCATGAGGATAGCAAAAGCATATGCAGCTTAA  
 CAGATGAAGAGTCTCGGAAAAATTTGGAAAGAAATTTGAAAATCCAGATGGGCCTCAAGCTACAAGCTTTGG  
 AATTGCTTTGCCAGCTTGGATAGTTGACCAGAAAAATCAATTCTGGTTTTACTTGTGTATGGATTGGCT  
 TTTATGGTTATTCTTCTGTTGTGGTGGCTCTTGGTGGTATCGGTCAATACGATATAGTGGAGACCAGA  
 TTCTAATACGTACAACACAGATTTATACATACTTTGTTTATAAACTCGAAATATGGATATGAAACGTCT  
 CATCATGGTTTTAGCTGGAGCTTCTGAATTTGACCCTCAGTATAATAAGATTCCACAAGCAAGCCAACA  
 GATAATATTTAATACCACAGCTAATCAGGAAATTTGGCAGCATAAATTTAAGAAGAATGAACCTCCAC  
 TCACCTGTCCATACAGCCTGAAGCCAGAGTCTTTTACTGTCTCATCTTGCTAGAATGAAAATTCCTGA  
 GACACTGGAAGAAGATCAACAGTTCATGTGAAAAATGTCTGTCTGTCTCAAGAAATGGTAAATGTA  
 ATCTGCCAGTAATAAATATGGCCCGGAGCCGTGAAGAAAGGGAGTTTCGTGCTCCAACCTTTGGCATCCT  
 TAGAAAATGTATGAAGCTTTCCAGATGGCTGTTGAGGGCTCCAGCAGTTAAGTCTCCCTTCTGCA  
 GCTCCCTCATATTGAAGAGGACAATCTTAGGAGAGTTTCGAATCATAAAAAGTACAAAATTAAACTATC  
 CAGGATTTGGTTAGTTTAAAAGAATCAGATCGTCATAGTCTGCTACACTTCTTGAAGATGAAAAGTATG  
 AAGAGGTCATGGCGGTCCTTGGGAGTTTTCCGTATGTGACCATGGACATAAAATCACAGGCTTGGATGA  
 TGAAGATAGCAACAACATCACAGTAGGATCCCTAGTTACAGTGTGGTTAAGTTGACGAGGCAGACCATG  
 GCTGAAGTGTGTTGAAAAGGAGCAGTCCATCTGCGCCGCTGAGGAGCAGCCACAGAAGACGGGCAGAGTG  
 ATGCCAACAAAGATCAAGGCAAAAGGAGGATGGCAGCAGAAGAACAAGGACCCAAGAAAATGCCAAATC  
 CAAAAAAAAGAAGCCTTTAAAAAGAAACCCACAACCTGTGCCCTTACCTCAGGCAAGCAGCAGAAGCAA  
 AAGCAGGCAAAATGGAGTTGTTGGGAGTGAAGCTGCAATAAAGGAGGAAGAAGACGACATTTCTGACAAGG  
 GCAGTGATTCTGAAGAGGAAGAAACCAATAGAGATTCTCAGAGTGAGAAAGAAGATGGTAGTGACAGGGA  
 GTCTGATAGAGAGCAAGATGAGAAACAAAGCAAAGATGATGAAGCAGAGTGGCAAGAGTTACAACAGAGT  
 ATACAGAGGAAAGAGAGAGCTCTTTGGAGACCAAGTCAAAGATAACACACCCTGTCTATAGTCTCTACT  
 TTCTGAGGAAAAACAAGAGTGGTGGTGGCTTTATATTGCAGATAGGAAAGAACAACATTAATATCCAT  
 GCCATATCATGTGTGCACACTGAAGGATACAGAAGAGGTAGAAGTGAAGTTTCCCGCACCGGCAAGCCT  
 GGAATATCAGTATACGGTGTTCCTGAGATCAGACTCCTATATGGGCTTGGATCAGATTAACCACTGA  
 AGTTGGAAGTTCATGAGGCCAAGCCTGTGCCAGAAAACCCACAGTGGGACACAGCGATAGAAGGTGA  
 CGAAGACCAGGAAGACAGTGAAGGATTTGAAGACAGCTTTGAGGAAGAGGAGGAGGAAGGGAAGGTGGA  
 GACTAACCCGAGTGAGTGGACTACAGCCTTTGCACATCCTTGCAAACATTGCTGCTCTGTGAGAGGTGAT  
 AAAGCAGCAGCAGTGAAGGCTGATATGGAGGGAAGGGTTGCTGACTTTACTAGAAACGGATGCAAAAAAG  
 AGGCCGCTGGTGCCAGGGTACAATCTGAAAAGGGTTTTTAAAGCCTTTTCAGGTATGGGGTGGTGCCTTA  
 TCTCATCTGCAAAATGATAATAAATCCTTTGATGTTCCAACCTGTCAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM\_153055
- Insert Size:** 2283 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC019366](#), [AAH19366](#)

**RefSeq Size:** 2610 bp

**RefSeq ORF:** 2283 bp

**Locus ID:** 140740

**UniProt ID:** [Q8VHE0](#)

**Cytogenetics:** 10 22.89 cM

**Gene Summary:** Mediates cotranslational and post-translational transport of certain precursor polypeptides across endoplasmic reticulum (ER) (PubMed:22375059). Proposed to play an auxiliary role in recognition of precursors with short and apolar signal peptides. May cooperate with SEC62 and HSPA5/BiP to facilitate targeting of small presecretory proteins into the SEC61 channel-forming translocon complex, triggering channel opening for polypeptide translocation to the ER lumen (By similarity). Required for efficient PKD1/Polycystin-1 biogenesis and trafficking to the plasma membrane of the primary cilia (PubMed:21685914).[UniProtKB/Swiss-Prot Function]