

## Product datasheet for **RC208436**

### SEC63 (NM\_007214) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEC63 (NM_007214) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEC63
Synonyms:	DNAJC23; ERdj2; PCLD2; PRO2507; SEC63L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC208436 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGGCAGCAGTTCAGTACGATGACAGTGGGAACACCTTCTTCTACTTCCTCACCTCCTTGTGG  
 GGCTCATCGTGATCCCGCGACATACTACTCTGGCCCGAGATCAGAATGCCGAGCAAATTCGATTAAA  
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 TAGCTTTGAGGAAGAAGAGGAGGAAGAAGAAGATGATGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208436 protein sequence  
 Red=Cloning site Green=Tags(s)

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MAGQQFQYDDSGNTFFYFLTSTFVGLIVIPATYYLWPRDQNAEQIRLKNIRKVVYGRMWRLLRLLKPPQNI
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WWYRSIRYSGDQILIRTTQIYTYFYVKTRNMDMKRLIMVLGASEFDPQYNKDATSRPDNLIPQLIRE
IGSINLKKNEPPLTCPYSLKARVLLL.SHLARMKIPETLEEDQQFMLKKCPALLQEMVNVICQLIVMARNR
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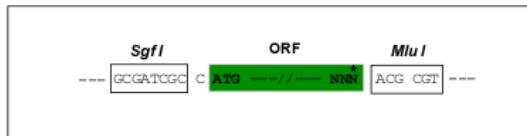
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6202\\_d09.zip](https://cdn.origene.com/chromatograms/mk6202_d09.zip)

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: NM\_007214

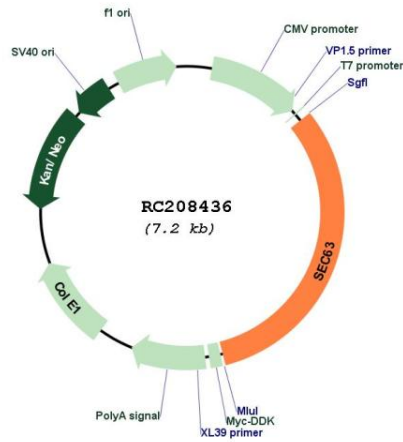
ORF Size: 2280 bp

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](#)

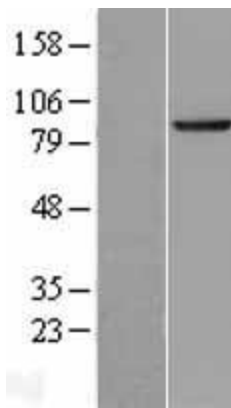
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_007214.5</u>
<b>RefSeq Size:</b>	6500 bp
<b>RefSeq ORF:</b>	2283 bp
<b>Locus ID:</b>	11231
<b>UniProt ID:</b>	<u>Q9UGP8</u>
<b>Cytogenetics:</b>	6q21
<b>Domains:</b>	Dnaj, Sec63
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	88 kDa
<b>Gene Summary:</b>	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 SEC62 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]

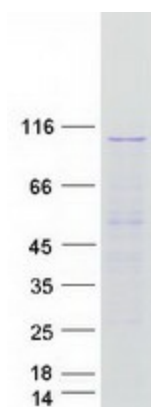
Product images:



Circular map for RC208436



Western blot validation of overexpression lysate (Cat# [LY402111]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208436 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC63 protein (Cat# [TP308436]). The protein was produced from HEK293T cells transfected with SEC63 cDNA clone (Cat# RC208436) using MegaTran 2.0 (Cat# [TT210002]).