

Product datasheet for **RR209412**

Sec22a (NM_057147) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sec22a (NM_057147) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sec22a
Synonyms: Sec22l2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR209412 representing NM_057147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTATGATTTTATCCGCCTCAGTCGTGCGTGTGAGGGATGGATTACCGCTGTCTGCATCCACTGATT
GTGAACAGAGTGCAGGAGTGCAGGAGTGCAGGAAGTACTTTAAGATGCTCTCGAGGAAGCTTGCTCAATT
TCCTGATAGATGTACACTGAAAACCTGGACGCCATAACATTAATTTTATTAGCTCTCTCGCGTGAGCTAC
ATGATGTTGTGCACTGAAAATTATCCAAATGTTCTCGCCTTCTCTTTCTGGATGAGCTTCAGAAGGAGT
TCATTACTACTTATAACATGATGAAGACAAATACTGCTGTGACACCATACTGTTTCATTGAATTTGATAA
CTTCATTACAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAAAATAAATCTGTCTGAC
ATGCAGATGGAAATCAAGCTGAGGCCCTTACCAATCCCAATGTGTGAACTGGGATCAGCCAATGGAG
TCACGCTGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCCACCAGCGACTAGAACC
AGCAACTCTGTGAGGGATTGTGGCATTATCCTTAGTCTTTATGTGGAGCTCTGAATTTAATTCGAGGC
TTTCATGCCATTGAAAGCCTCTGCAGAGTGTGGTGGAGCTTTAGTTACATGATTGCATTTTCTCTTG
GGACAGCGGCCTGCCTTTACCAGTGTATTTACTGTGTACTACACCAGCTGGCGGAATGCAAAATCATT
CCTGACTTTTGGCTTAATCTGTCTTTGCAACATGTATCTCTACGAACCTCTGGCAGCTTTTC
TTTCATGTGACTGTGGGAGCATTGTGCACACTGCAGATCTGGCTGAGGCAAGCCCAAGGCAAGGCTCCTG
ACCATGACGTC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR209412 representing NM_057147
 Red=Cloning site Green=Tags(s)

MSMILSASVVRVRDGLPLSASTDCEQSAGVQECRKYFKMLSRKLAQFPDRCTLKTGRHNINFISSLGVSY
 MMLCTENYPNVLAFSFLDELQKEFITTYNMMKNTAVRPYCFIEFDNFIQRTKQRYNNPRSLSTKINLSD
 MQMEIKLRPPYQIPMCELGSANGVTSAFSVDCGAGKISSAHQRLEPATLSGIVAFILSLLCGALNLRG
 FHAIESLLQSDGEDFSYMIAFFLGTAACLYQCYLLVYYTSWRNVKSFLTFGLICLCNMYLYELRNLWQLF
 FHVTVGAFVTLQIWLRLQAQKAPDHDV

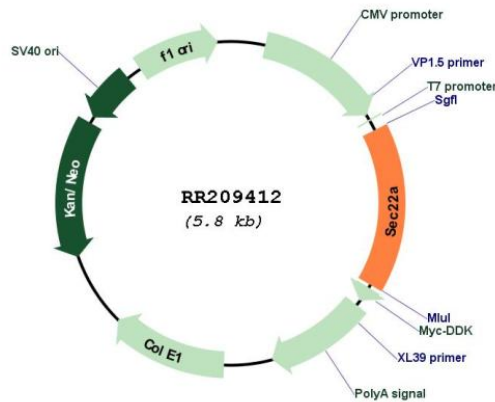
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_057147

ORF Size: 921 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:	<ol style="list-style-type: none">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_057147.2 , NP_476488.2
RefSeq Size:	1661 bp
RefSeq ORF:	924 bp
Locus ID:	117513
UniProt ID:	Q642F4
Cytogenetics:	11q22
MW:	34.9 kDa
Gene Summary:	involved in vesicle trafficking between endoplasmic reticulum and Golgi apparatus [RGD, Feb 2006]