

Product datasheet for MR217787

Sec22a (NM_133704) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec22a (NM_133704) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sec22a
Synonyms:	1810005C06Rik; Sec22l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217787 representing NM_133704 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATGATTTTGTCTGCCTCAGTCATTCGTGTGAGGGATGGACTACCGCTGTCTGCATCCACTGATT
ATGAGCAGAGCACAGGAATGCAGGAGTGCAGAAAGTACTTTAAGATGCTGTCCAGGAACTTGCTCAATT
TCCTGATAGATGTACACTGAAAACGGGGCGCTATAACATTAATTTTCATTAGCTCTCTGGGAGTGAGCTAC
ATGATGTTGTGCAGTGAGAATTATCCAAATGTTCTCGCCTTCTCTTTCCCTGGATGAGCTTCAGAAGGAGT
TCATTACTACTTATAACATGATGAAGACAAATACTGCTGTCAGACCATACTGTTTCATTGAATTTGATAA
CTTCATTAGAGGACCAAGCAGCGATATAATAATCCCAGGTCTCTTTCAACAAAAATAAACTGTCTGAC
ATGCAGATGAAAATCAAGCTGAGGCCCTTATCAAATCCAATGTGGAAGTGGATGAGCAAAATGGAG
TCACATCTGCATTTTCTGTTGACTGTAAAGGTGCTGGTAAGATTTCTTCTGCCCATCAGCGACTAGAACC
AGCAACTCTGTCAGGGATTGTGGCGTTTATCCTTAGTCTTTATGTGGAGCTCTGAATTTAATTCGAGGC
TTTCATGCCATAGAAAGCCTCCTGCAGAGTGTGGTGGAGATCTAATTACATTATTGCATTTTCTTGG
GGACAGCAGCCTGCCTTTACCAGTGTATTTACTGTGTACTACACCAGCTGGCGGAATGTCAAGTCATT
TCTGACTTTCGGCTTAATCTGTCTGTGCAACATGTATCTCTACGAACTGCGCAACCTCTGGCAGCTTTTC
TTTCATGTGACTGTGGGAGCGTTTGTACACTGCAGATCTGGCTGAGGCAAGCCCAAGGCAAGGCTCCTG
ACCATGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217787 representing NM_133704
 Red=Cloning site Green=Tags(s)

MSMILSASVIRVRDGLPLSASTDYEQSTGMQECKERKYFKMLSRKLAQFPDRCTLKTGRYNINFISSLGVSY
 MMLCSENYPNVLAFLDELQKEFITTYNMMKTNATAVRPYCFIEFDNFIQRTKQRYNNPRSLSTKINLSD
 MQMEIKLRPPYQIPMCELGSANGVTSAFVSDCKGAGKISSAHQRLEPATLSGIVAFILSLLCGALNLIIRG
 FHAIESLLQSDGEDLNYIIAFFLGTAAACYQCYLLVYYTSWRNVKSFLTFGLICLCNMYLYELRNLWQLF
 FHVTVGAFVTLQIWLRLQAQKAPDHDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133704

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:

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_133704.4](#), [NP_598465.2](#)

RefSeq Size: 3992 bp

RefSeq ORF: 924 bp

Locus ID: 317717

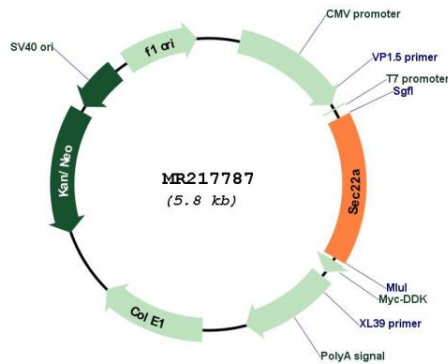
UniProt ID: [Q8BH47](#)

Cytogenetics: 16 B3

MW: 35.5 kDa

Gene Summary: May be involved in vesicle transport between the ER and the Golgi complex.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217787