

Product datasheet for **MG207633**

Sec61a2 (BC005458) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec61a2 (BC005458) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec61a2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207633 representing BC005458
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCATCAAGTTTTAGAAAGTTATTAACCTTTCTGTGCAGTTCTACCAGAAATTCAGAAGCCTGAAA
 GGAAAATTCAGTTTAGAGAGAAGGTACTATGGACTGCTATAACACTCTTCATTTTCTTAGTATGCTGTCA
 GATTCCGCTGTTTGGGATCATGTCATCGGACTCTGCAGATCCCTTCTACTGGATGAGAGTTATTCTTGCA
 TCCAACAGAGGAACATTGATGGAATTGGGTATTTCCCAATTGTAACGTCTGGTTTGATTATGCAGTTGT
 TAGCTGGAGCCAAAATCATTGAAGTTGGAGACACACCCAAAGATAGAGCTCTGTTCAATGGAGCCCAGAA
 ATTATTTGGTATGATCATTACCATTGGCAAGCCATTGTATATGTCATGACGGGGATGTACGGGGACCT
 GCGGAAATGGGTGCTGGGATCTGTCTCCTTATCATTATCCAGTTGTTTGTGCTGGTTTGATTGTGCTGC
 TGTTAGATGAGCTGCTACAGAAGGGTACGGCTGGGGTCTGGGATTTCCCTCTTATTGCCACCAACAT
 CTGTGAAACCATTGTCTGGAAGGCCTTAGTCCCCTACCATTAACTGGCAGAGGTACGGAGTTTGAA
 GGTGCAGTCATAGCTCTGTTTCATTTGCTGGCCACCAGGACAGACAAGGTGCGAGCCTTGAGGGAGGCTT
 TCTATAGGCAGAACCTCCCAACCTCATGAACCTCATCGCCACAGTGTTGCGTTCGCTGTGCTCATCTA
 TTTTCAGGGGTTTCGTTGACTTGCCCATTAAGTCGGCACGGTATCGTGGACAGTACAGTAGCTATCCT
 ATCAAGCTCTTCTACACGTCGAATATCCATAATCCTCCAGTCTGCCCTAGTTTCAAACCTGTACGTCA
 TTTCCAGATGCTGTCTGTTTCGATTTAGTGGCAACTTCTTAGTAACTTACTAGGACAGTGGGCCGATGT
 CAGTGGGGGAGGGCTGCTCGCTCCTACCCTGTTGGTGGCCTTTGTTACTATCTGTCTCCTCCTGAGTCT
 ATGGGAGCCATATTTGAGGATCCTGTTTCATGTAGTTGTATATATCTTCATGTTGGGGTATGTGCAT
 TCTTTTCTAAGACGTGGATAGAAGTTTCTGGTTCTCAGCCAAAGATGTGGCAAGCAACTTAAAGAACA
 GCAGATGGTGATGAGGGGTACAGAGATACCTCCATGGTCCACGAGCTGAACAGGTACATCCCCACAGCA
 GCTGCCTTTGGGGTCTGTGCATCGGTGCCCTGTCACTAGCAGACTTCTTGGGGCCATTGGCTCTG
 GACTGGAATTCTGCTTGCAGTCACTATTATTTATCAGTATTTTGAATATTTGTTAAGGAACAGGCTGA
 AGTTGGTGAATGGGTGCTTTGTTTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207633 representing BC005458
 Red=Cloning site Green=Tags(s)

MGIKFLEVIKPFCAVLPEIQKPERKIQFREKVLWTAITLFIPLVCCQIPLFGIMSSDSADPFYWMRVILA
 SNRGLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIIITIGQAIIVYVMTGMYGDP
 AEMGAGICLLIIQLFVAGLIVLLLDELLQKGYGLSGISLFIATNICETIIVWKAFSPTTINTGRGTEFE
 GAVIALFHLLATRTDKVRALREAFYRQNLPNLMNLIATVVFVAVVIYFQGFVRDLPKISARYRGQYSSYP
 IKLFYTSNIPIILQSALVSNLYVISQMLSVRFSGNFLVNLGQWADVSGGGPARSYVVGGLCYLSPPE
 MGAIFEDPVHVYVYIIFMLGSAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRHRDTSMVHELNRYP
 AAFGGLCIGALSVLDFLGAIGSGTGILLAVTIIYQYFEIFVKEQAEVGGMGALFF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC005458

ORF Size: 1430 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: [BC005458](#), [AAH05458](#)

RefSeq Size: 2139 bp

RefSeq ORF: 1430 bp

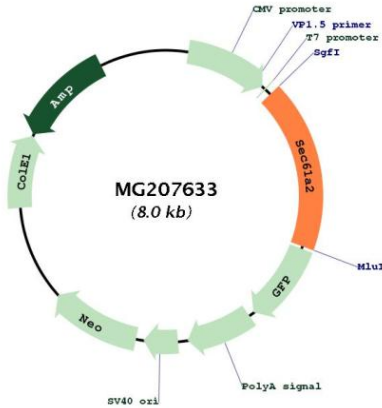
Locus ID: 57743

Cytogenetics: 2 A1

Gene Summary:

Appears to play a crucial role in the insertion of secretory and membrane polypeptides into the ER. It is required for assembly of membrane and secretory proteins. Found to be tightly associated with membrane-bound ribosomes, either directly or through adaptor proteins (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207633