

Product datasheet for **MG211534**

Sec16b (BC059194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec16b (BC059194) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec16b
Synonyms:	Lztr2; Rgpr; Rgpr-p117
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211534 representing BC059194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACCTTGGGTTCCCCACACACAAGGAAGGACCACGGGACCATCAAGGGATACAAATAGAGGACTTC
AGAGTGGACATTATAGACCCCGTCCGATTCTCAGTACAGTGGAGATAAGTACCACCAATGGCAAGATGC
CCACAAGAAGTCAAAGTACAGCAGGACCTCAGGGATGACCACCAACAGTCTCACTCTGTATCCAGGAGT
GGGGAGTGGTCCCAGCCTGTGTCTGGTGTGACTACTTGAAGGATCTTATCCCAGTCACTGTACTCAA
GGTCAGGCTATGGGGACCCCTATCAGAGGTACCACACTCCGACACCGAGGGATGAGTATGCTTATGGAAA
TTACTACTACCACGGACATCCACAGCTGCTGCCGGAAGAAAGAGTGGCAAGGCAAGGAGTCTTATATC
TGGCATGAAGATCATGGAGACCAGAGTACTTCGGCGAGCATCATCGGGAGAAGCACAATGGTACATTTG
GAGCAAACAGTGATACCCAGTTCGAATTTACCAGTAAGAATCCATACCGAGACAGCCCTGCTTCTGTGTC
TGGACAGGAACAGCCTGGGGAATTTTCCAGAGAGTGAAGCCAGAAACAAAAGCCATTGCTGACCAGC
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CAGCTGCCCCGAGGAGTATGAACCTATGGTGTGAGCAGCTTGGAGGCCATTGAGGCTGATGACACCTC
AGCGACAGTTCCAAAGGCACCTATGAGGTTCTATGTTCCCATGTGTCTGTGAGCTTTGGCCAGGAGGC
CAGCTAGTGTGTGTCACCCCAACTCTCCTGCTGATGGACAACCGCCCTCGTTGAAGTGCACAGCATGG
AGGTTTTACTTAATGATTTTGGAGTACAGGAGGATGAGAGCTTTCCAGGGCCCTTATTAGGGAGGA
CATAACAAGGTGGATATCATGACGTTTTGTGACGAGAAAGCAACGCAGTGTCTCAAATCTGAGACACCA
GGGAGCAGAGACTCAGCTCTACTTTGGCAACTGCTGGTCTCCTTTGTCGACAGAATGGTCCATGGTGG
GATCTGACATTGCTGAGCTGCTGATGCAGGACTGCAAGAAGCTGGAGAAGTACAAGAGGCAGCCCTGT
AGCCAACCTCATCAACCTGACTGACGAGGACTGGCCGGTACTGAGCTCTGGGACTCGTGTCTCCTCACT
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CTGCAGACCTCTTCCAGCTCATGTCCAGGAAGGATTCCACAAGCAGCCACGGTTTGTGGAGACAAACAGT
 GGGGAGACTGGCGGCCCACTTGGCTGTGATCCTGTCAAATCAGGCTGGAGATACAGAGTTGTACCAGCG
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 TCAAAGCTGCCAGCAGTGTGTCCACCTCTGGAGATGAAGACTCCTCGGACAGTTCTGACTCAGAGGAGT
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 CCTGCCAGGTGCCAGCACCTTCTCGAGAGGCACAGGTGGGAGTATTCTCCAAGGATCCTCAAACAGTAGT
 GGAATCGCTGAAGCATGGGATTGGAGGGTCTCGGGGACACAGGTGTTTCTTCTGAGTCTACTCCC
 AGCCTGGTGCCCTGCCTCCTCCGCTACCTTGAAGGTGCTGTTCTCTCTACAATCCATCTCAGGTCCC
 TCAGCTTCCCAGTCTAGTAGCCTGAACCGGCCAAACCGCCTAGCCCAGCGCCGCTACCCAACCCAGCCA
 TGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG211534 representing BC059194

Red=Cloning site Green=Tags(s)

MEPWVPHQTGRRTGSPRDTNRGLQSGHYRPRPHSQYS GDKYHQWQDAHKNKSKSQDLRDDHQQSHSVSRS
 GEWSQPVS GADYLGKSYPSHLYSRSGYGDYQRYHTPTPRDEYAYGNYYYHGHQQLPEERVARQGSPIYI
 WHEDHGDQRYFGEHHREKHNGTFGANS DTFQFTSKNPYRDS PASVSGQE QPGEFFPESE AQKQKPLLTS
 KSSLLQQHESGLSSSSYELSQYMTAAPEEYEPMVSAAWRPIQADDTSATVPKAPMRFYVPHVSVSFGPGG
 QLVCVPPNSPADGQTALVEVHSMVLLNDFEDQEEMRAFPGPLIREDIHKVDIMTF CQKATQCLKSETP
 GSRDSALLWQLLVLLCRQNGSMVGS DIAELLMQDCKKLEKYKRQPPVANL INL TDEDWPVLS SSGTRDLLT
 GEIPPNVDTPAQIVEKFTKLLYGRKKEALEWAMKNHLWGHALFLASKMDPRTYNWVMSGFTSTLALNDP
 LQTLFQLMSGRIPOAATVCGDKQWGDWRPHLAVILSNQAGDTEL YQRAIVSMGDTLAGKGLVEASHFCYL
 MAHVFPFHYYTKVDHLALVGS SHSQEFMFATIEAIQRTEIFEYQMLGRPKSFIPSFQVYKLLYASRLA
 DYGLASQALHYCEAIGAAVLSQEGSSHPVLLAELIKLAEKLLSDPLVLERRRGDRDLEPDWLVQLRRKH
 KDLEQNRTGALRDPDSTPSDIYGAGGTTDTPYPDL SGHQNYSEDSEYSSTLWSTAEQTS LNPLAQQSFP
 LQRDTYSGHMGTPVPLYSVPATHLAVTSGASGSSVAVTGTPGGRVGEDMLRTHPAFGENTMTQELEDPD
 GLEVISSLQTPAAPRVPSFSEDS AASAKED EEGSSDGADKPSHPDASQKGLGDGKNTKSSGF GWF SWFR
 SKPASSVSTSGDESDSDSSESPRASPPHASPGLSPTPPLTSPSLPGASTFSRGTGGSILQGSNSNS
 GIAEGMGI GFGSGTQGVSEFYSPGALPPPPTLQGAVPLYNPSQVPQLPTASSLNRPNRLAQRRYPTQP
 C

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC059194

ORF Size: 3155 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: [BC059194](#), [AAH59194](#)

RefSeq Size: 4440 bp

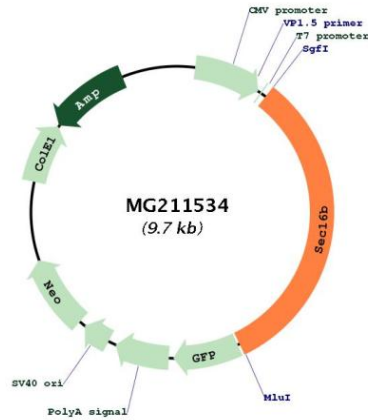
RefSeq ORF: 3155 bp

Locus ID: 89867

Cytogenetics: 1 H1

Gene Summary: Plays a role in the organization of the endoplasmic reticulum exit sites (ERES), also known as transitional endoplasmic reticulum (tER). Required for secretory cargo traffic from the endoplasmic reticulum to the Golgi apparatus. Involved in peroxisome biogenesis. Regulates the transport of peroxisomal biogenesis factors PEX3 and PEX16 from the ER to peroxisomes. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG211534