

Product datasheet for **MG204645**

Sec13 (NM_024206) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sec13 (NM_024206) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sec13
Synonyms:	1110003H02Rik; Sec13l1; Sec13r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204645 representing NM_024206 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCAGTAATGAACACTGTGGACACCTCTCATGAGGACATGATTCATGATGCACAGATGGACTACT
ACGGCACCCGCTAGCAACCTGCTCCTCGGATAGGTCGGTCAAAATTTTCGATGTGCGGAATGGAGGGCA
GATCCTCATCGCAGACCTCAGAGGACATGAGGGCCAGTATGGCAAGTGGCTGGGCCACCCCATGTAT
GGCAATATCCTGGCCTCCTGTTCTATGACCGAAAGTCATCATCTGGAAGGAGGAAAACGGCACTTGGG
AGAAGACCATGAGCACTCGGGACAGACTCCTCAGTGAAGTCTGTTTGGTGGGCCCTCATGACTATGG
CCTGATCCTGGCCTGTGGGAGTTCAGATGGGGCCATCTACTGCTGACCTATACAGGGGAAGGCCAGTGG
GAAGTGAAGAAGATTAACAATGCTCACACGATTGGCTGTAATGCTGTGAGTTGGGCCCCAGCAGTTGTGC
CTGGAAGCCTTATAGACCAACCATCAGGGCAGAAACCAATTACATCAAGAAGTTTGCATCAGGTGGCTG
TGACAACCTCATCAAGCTATGGAGGGAAGAGGAGGATGGCCAGTGGAAAGGAGGAGCAGAAGCTAGAGGCA
CACAGCGACTGGGTCCGAGATGTTGCTGGGCCCCCTCCATTGGCTTGGCCACCAGCACCATTGCCAGCT
GCTCTCAGGATGGTCGAGTGTATTTGGACCTGTGACGATGCCTCAGGCAATATGTGGTACCTAACT
CCTACACAAGTTCAATGATGTTGTGTGGCACGTGAGCTGGTCCATCACAGCCAACATCCTGGCTGTGTCA
GGTGGAGACAATAAGGTGACCCTGTGGAAGAGTCGGTGGACGGACAGTGGGTGTGCATCAGTACGTCA
ACAAGGCCAGGGTTCTGTGTCAGCCTCCATCACAGAGGCCAACAGAACGAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204645 representing NM_024206
 Red=Cloning site Green=Tags(s)

MVSVMNTVDTSHEDMIHDAQMDYYGTRLATCSSDRSVKIFDVRNGGQIL IADLRGHEGPVWQVAWAHPMY
 GNILASCSYDRKVI I WKEENGTEWKT HEHSGHDSSVNSVCWAPHDYGL I LACGSSDGAISLLTYTGEGQW
 EVKKINNAHTIGCNAVSWAPAVVPGSL IDQPSGQKPNYIKKFASGGCDNL IKLWREEEDGQWKKEQKLEA
 HSDWVRDVAWAPSIGLPTSTIASCSQDGRVFIWTCDDASGNMWSPKLLHKFNDDVVVHWSITANILAVS
 GGDNKVTLWKESVDGQWVICISDVNKGQGSVSASITEGQQNEQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024206

ORF Size: 966 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_024206.4](#), [NP_077168.2](#)

RefSeq Size: 1301 bp

RefSeq ORF: 969 bp

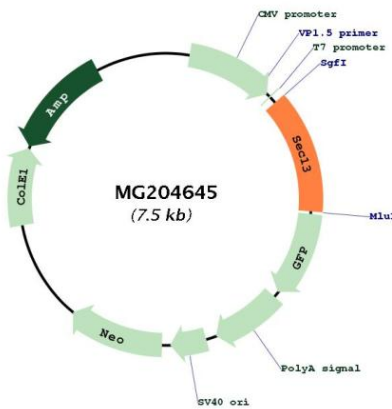
Locus ID: 110379

UniProt ID: [Q9D1M0](#)

Cytogenetics: 6 52.84 cM

Gene Summary: Functions as a component of the nuclear pore complex (NPC) and the COPII coat. At the endoplasmic reticulum, SEC13 is involved in the biogenesis of COPII-coated vesicles (By similarity). Required for the exit of adipsin (CFD/ADN), an adipocyte-secreted protein from the endoplasmic reticulum (PubMed:27354378).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204645