

## Product datasheet for MR204645

### Sec13 (NM\_024206) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sec13 (NM_024206) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sec13
Synonyms:	1110003H02Rik; Sec13l1; Sec13r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204645 representing NM_024206 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGTCTAGTAACTGAACACTGTGGACCTCTCATGAGGACATGATTCATGATGCACAGATGGACTACT  
ACGGCACCCGCTAGCAACCTGCTCCTCGGATAGGTCGGTCAAAATTTTCGATGTGCGGAATGGAGGGCA  
GATCCTCATCGCAGACCTCAGAGGACATGAGGGCCAGTATGGCAAGTGGCTGGGCCACCCCATGTAT  
GGCAATATCCTGGCCTCCTGTTCTATGACCGAAAGTCATCATCTGGAAGGAGGAAAACGGCACTTGGG  
AGAAGACCATGAGCACTCGGGACAGACTCCTCAGTGAAGTCTGTTTGGTGGGCCCTCATGACTATGG  
CCTGATCCTGGCCTGTGGGAGTTTCAGATGGGGCCATCTACTGCTGACCTATACAGGGGAAGGCCAGTGG  
GAAGTGAAGAAGATTAACAATGCTCACACGATTGGCTGTAATGCTGTGAGTTGGGCCCCAGCAGTTGTGC  
CTGGAAGCCTTATAGACCAACCATCAGGGCAGAAACCAATTACATCAAGAAGTTTGCATCAGGTGGCTG  
TGACAACCTCATCAAGCTATGGAGGGAAGAGGAGGATGGCCAGTGGAAAGGAGGAGCAGAAGCTAGAGGCA  
CACAGCGACTGGGTCCGAGATGTTGCTGGGCCCTCCATTGGCTTGGCCACCAGCACCATTGCCAGCT  
GCTCTCAGGATGGTTCGAGTGTATTTGGACCTGTGACGATGCCTCAGGCAATATGTGGTACCTAACT  
CCTACACAAGTTCAATGATGTTGTGTGGCACGTGAGCTGGTCCATCACAGCCAACATCCTGGCTGTGTCA  
GGTGGAGACAATAAGGTGACCCTGTGGAAGAGTCGGTGGACGGACAGTGGGTGTGCATCAGTACGTCA  
ACAAGGGCCAGGGTTCTGTGTGACGCTCCATCACAGAGGGCCAACAGAACGAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204645 representing NM\_024206  
 Red=Cloning site Green=Tags(s)

MVSMNTVDTSHEDMIHDAQMDYYGTRLATCSSDRSVKIFDVRNGGQIL IADLRGHEGPVWQVAWAHPMY  
 GNILASCSYDRKVI IWEENGTEWKTHEHSGHDSVNSVCWAPHDYGL ILAGSSDGAISLLTYTGEGQW  
 EVKKINNAHTIGCNAVSWAPAVVPGSL IDQPSGQKPNYIKKFASGGCDNL IKLWREEEDGQWKKEQKLEA  
 HSDWVRDVAWAPSIGLPTSTIASCSQDGRVFIWTCDDASGNMWSPKLLHKFNDDVHVHVSWSITANILAVS  
 GGDNKVTLWKESVDGQWVCISDYNKGQGSVSASITEGQQNEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9045\\_c07.zip](https://cdn.origene.com/chromatograms/mm9045_c07.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\_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

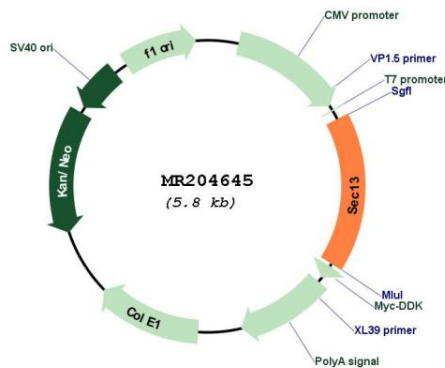
**UniProt ID:** [Q9D1M0](#)

**Cytogenetics:** 6 52.84 cM

**MW:** 36 kDa

**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 MR204645