

## Product datasheet for **RR206867**

### Tpsb2 (NM\_019180) Rat Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Tpsb2 (NM\_019180) Rat Tagged ORF Clone  
Tag: Myc-DDK  
Symbol: Tpsb2  
Synonyms: Mcpt6  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
ORF Nucleotide Sequence: >RR206867 representing NM\_019180  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCTGAAGCTGCTGCTGCTGCTGGCACTGTCCCCCTGGCTAGTCTGGTGCACGCGGCCCTTGCCCAG  
TCAAGCAGCGAGTGGCATTGTGGGAGGACGAGAGGCTTCTGAAAGTAAGTGGCCCTGGCAGGTGAGCCT  
GAGATTTAAATTCAGCTTCTGGATGCATTTCTGTGGCGGCTCCCTCATTACCCACAGTGGGTGCTCACT  
GCGGCACACTGTGTGGGACTGCACATCAAAGCCAGAGCTTCCCGTGTACAGCTTCGTGAGCAGTATC  
TATACTATGCGGACCAGCTACTGACTGTGAACCGACCGTTGTGCACCCCACTACTACACAGTCGAGGA  
TGGGGCAGACATTGCCCTGCTGGAGCTTGAGAACCCTGTGAATGTCTCCACCCATATCCACCCACATCC  
CTGCCCTGCCTCGGAGACCTTCCCCTCGGGGACTTCTTGTGGGTAACAGGCTGGGGCGACATTGATA  
GTGACGAGCCTCTCCTGCCACCTTATCCTCTGAAGCAAGTGAAGTCCCCATTGTGAAAACAGCCTGTG  
TGATCGGAAGTACCACACTGGCCTCTACACAGGAGATGATGTTCCATTGTCCAGGATGGCATGCTGTGT  
GCTGAAAATACCAGGAGCGACTCCTGCCAGGAGACTCAGGGGGCCCACTGGTCTGAAAAGTGAAGGGTA  
CCTGGCTGCAAGCAGGAGTGGTCAGCTGGGGCGAGGGCTGCGCAGAGGCCAATCGTCTGGCATTACAC  
CCGGGTGACGTACTACCTGGACTGGATTACCGCTATGTCCCTCAGCGTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR206867 representing NM\_019180  
Red=Cloning site Green=Tags(s)

MLKLLLLLALSPASLVHAAPCPVKQRVGI VGGREASESKWPQVSLRFKFSFWMHFCGGS LIHPQWVLT  
 AAHCVGLHIKSPELFRVQLREQLYYADQLLTVNRTVVHPHYTVEDGADIALLELENPVNVSTH IHTS  
 LPPASETFPSGTSCWVTGWGDIDSDEPLLPYPLKQVKVPIVENS LCDRKYHTGLYTGDVPIVQDMLC  
 AGNTRSDSCQGDGGPLVCKVKGTWLQAGVVSWGEGCAEANRPGIYTRVYYLDWIHRYVPQRS

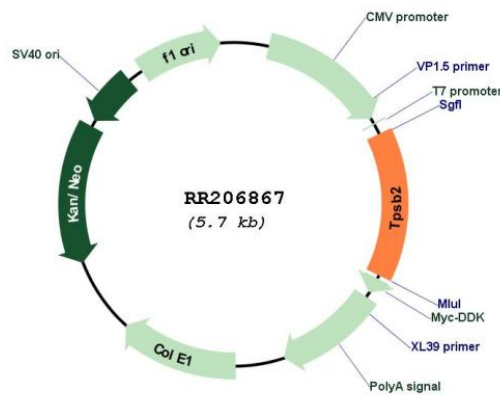
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_019180  
**ORF Size:** 822 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_019180.2](#), [NP\\_062053.2](#)

**RefSeq Size:** 1102 bp

**RefSeq ORF:** 825 bp

**Locus ID:** 29268

**UniProt ID:** [P50343](#)

**Cytogenetics:** 10q12

**MW:** 30.5 kDa

**Gene Summary:** serine protease; plays a role during the inflammatory process [RGD, Feb 2006]