

## Product datasheet for **MR207196**

### Tapbpl (NM\_145391) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tapbpl (NM_145391) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tapbpl
Synonyms:	BC017613; TAPBPL-R; Tapbplr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207196 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGCTTGGAGCCAGCTGGTATCTGCTGCTCTGTTGGCTGTCTCTGGGGCAGCAGGGACTGACCTC  
 CCACAGCGCCACACAGCAGAAAAGACAGCGCCAGCCACGGACATCATCTTAGACTGCTTCTTGGTGAC  
 AGAAGACAGGCACCGCGGGCTTTTCCAGCAGTGGGACAGGGAGAGGGCCTTGCTTGTCTGAAGCAG  
 GTACCAGTGTGGATGATGGCTCCCTGGAAGGCATCACAGATTTCCAGGGGAGCACTGAGACCAAACAGG  
 ATTCACCTGTTATCTTTGAGGCCTATTGGACTTGGTACAGATTTCCAGGCAGAGGCGTTGCTCCATGC  
 TGACTGCAGCGGGAAGGCAGTGCCTGCGAGATCTCCAAGTATTTCTCCAGGCCAGACAAGAGGCCACT  
 TTTGAGAAAGCACATTGGTTCATCAGCAACATGCAGGTTTCTAGAGGTGGCCCCAGTGTCTCCATGGTGA  
 TGAAGACTCTAAGAGATGCTGAAGTTGGAGCTGTCCGGCACCTACACTGAACCTACCTCTGAGTGCCCA  
 GGGCACAGTGAAGACTCAAGTGGAGTTCAGGTGACATCAGAGACCCAAACCTGAACCACCTGCTGGGG  
 TCCTCTGTCTCCCTGCACTGCAGTTTCCATGGCACCAGACCTGGACCTCACTGGCGTGGAGTGGCGGC  
 TGCAGCATAAAGGCAGCGGCCAGCTGGTGTACAGCTGGAAGACAGGGCAGGGCAGGCCAAGCGCAAGGG  
 CGCTACACTGGAGCCTGAGGAGCTACTCAGGGCTGAAACGCCTCTCTCACCTTACCCAACCTCACTCTA  
 AAGGATGAGGGGACCTACATCTGCCAGATCTCCACCTCTCTGTATCAAGCTCAACAGATCATGCCACTTA  
 ACATCTGGCTCCCCCAAAGTACAACCTGCACTTGGCAAACAAGGATCCTCTGCCTTCCCTCGTCTGCAG  
 CATTGCCGGCTACTATCCTCTGGATGTGGGAGTGACGTGGATTCGAGAGGAGCTGGGTGGAATTCAGCC  
 CAAGTCTCTGGTCCCTCTTCCAGCCTCAGGCAGAGCAGATGGGAACCTACAGCATTCTTCCACGG  
 TGATGGCTGACCCAGGCCACAGGTGCCACTTATACCTGCCAAGTCGCCACGTCTCCCTGGAGAGCC  
 CCTTACAACCAGCATGAGGGTTTTGCCAAATCCAGAGCAGAGAGGAACCTTGGGAGTCATCTTTGCCAGC  
 ATCATCTTCTTTCTGCGCTGTTGTTGTTCTGGACTTCACAGACAGCAAGCTTCTTCGTC AAGGTCCA  
 CCAGGCCTATGAGGCATTCTGGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207196 protein sequence  
 Red=Cloning site Green=Tags(s)

MGLEPSWYLLCLAVSAAAGTDPPTAPTTAERQRQPTDIILDCFLVTEDRHRGAFASSGDRERALLVLKQ  
 VPVLDDGSLEGITDFQGSTETKQDSPVIFEASLDLVQIPQAEALLHADCSGKAVTCEISKYFLQARQEAT  
 FEKAHWFISNMQVSRGGPSVSMVMKTLRDAEVGAVRHPTLNPLLSAQGTVKTQVEFQVTSETQTLNHLG  
 SSVSLHCSFSMAPDLDLTGVEWRLQHKGSGLVYSWKTGGQAKRKGATLEPEELLRAGNASLTLPNLTL  
 KDEGTICQISTSLYQAQQIMPLNILAPPKVQLHLANKDPLPSLVCSIAGYYPDLVGVVTWIREELGGIPA  
 QVSGASFSSLRQSTMGTYSISSTVMADPGPTGATYTCQVAHVSLEEPLTSMRVLNPNPEQRGTLGVIFAS  
 IIFLSALLLFLGLHRQQASSRSTRPMRHSG

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_145391

**ORF Size:** 1356 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\\_145391.1](#), [NP\\_663366.1](#)

**RefSeq Size:** 2080 bp

**RefSeq ORF:** 1356 bp

**Locus ID:** 213233

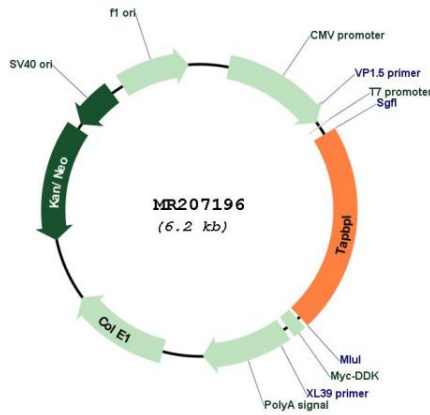
**UniProt ID:** [Q8VD31](#)

**Cytogenetics:** 6 F3

**MW:** 48.8 kDa

**Gene Summary:** Component of the antigen processing and presentation pathway, which binds to MHC class I coupled with beta2-microglobulin/B2M. Association between TAPBPR and MHC class I occurs in the absence of a functional peptide-loading complex (PLC). Expression seems to slow down and down-regulate MHC class I surface expression.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207196