

## Product datasheet for **RR203361**

### Tap2 (NM\_032056) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tap2 (NM_032056) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tap2
Synonyms:	Abcb3; Cim
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide  
Sequence:

>RR203361 representing NM\_032056  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGCTGTCTACCCGAGGCCCTGGGCCTCTCTGCTGCTGGTGGACCTGGCTTTACTTGGGTTGCTAC  
AAAGATCTCTGGAACTCTGCTTCCCCGGGGCTGCCAGGATTATGGCTGGAGGGCACCCCTGCGACTTGG  
AGTGCTGTGGGACTGCTAAAAGTGGGAGGGCTGCTGAGACTTGTGGGACCTTTCTGCCCTTGGCTCTGC  
CTGACCACCCCTGTTTTCTCGCTGAGAGCCCTGGTGGGAAGCACCATGAGCACCTCAGTACTCAGAG  
TGGCTTCTGCCTTTGGGGCTGGCTGCTTGGCTATGTAGCCGCGGCTTGGAGCTTGGCGTGGGGC  
TGTGCTGAGCCCCGCTGGAGCACAGGAGAAGGAACAGGCCAGGAGAACAACAGAGCACTCATGATACGG  
TTGCTGAGGCTGTCCAAGCCGATCTGCCTTCTCATTGTTGCCTTCATCTTCTTGGCATGGCTGTGT  
GGGGGAGACGTTAATCCCTCATTATTCGGGCTGTGTGATTGACATCCTGGGAGGTGATTTTGACCCAGA  
CGCTTTGCGAGCGCCATCTTTTTCATGTGCTTATTCTCTGTTGGGAGCTCCCTCTCTGAGGCTGCCGA  
GGAGGCTCCTTCTCTTACCATGTCCAGGATCAACCTTCGCATACGAGAGCAGCTTTTCTCATCTTTGT  
TGGCCAAGACCTTGATTCTTCCAGGAGACCAAGACAGGGGAGCTGAACTCACGGCTGAGCTCGGACAC  
CTCCCTGATGAGCCGCTGGCTCCCTTCAATGCCAATATCCTGCTGCGGAGCCTGGTGAAGTGGTGGGG  
CTGTACTACTTATGCTCCAGGTCTCCCGAGACTCACCTTCTCTCCCTGCTGGACCTGCCCTCACAA  
TAGCAGCCGAGAAGGTGTACAACCCCGCCATCAGGCTGTGCTAAAGGAGATCCAGGATGTAGTGGCGAA  
GGCAGGGCAGGTGGTGGCTGAGGCCGTAGGAGGGCTGCAGACCGTGAGAAGCTTTGGCGCGGAGGAGCAG  
GAAGTCAGCCGCTACAAGGAGCCCTGGAGCGATGTCGACAGCTGTGGTGGCGCCGAGACCTGAAAAAG  
AATTGTATTTAGTCATACGGAGGGTAATGGCCTTGGCATGCAGGTGCTGATTCTGAACTCGCGGTGCA  
GCAGATCCTGGCTGGGGAGGTACCCGGGGCGGCTGCTCCTTCTTGTGTATCAGGAGGAAGTGGGG  
CACCATGTCCGGAACCTGGTATACATGTATGGGATATGCTGAGCAACGTGGGTGCCGCGAAAAGTTTT  
TTTCTACTTGGACCGAAGGCCAAATCTGCCGAAGCCTGGTACCCTGGCCCTCCAGGGTGGAGGGGCG  
CGTGGAATTTCAAGATGTCTCTTCTCGTACCCAGTCGCCCCGAGAAGCCTGTGCTCCAGGGCCTGACG  
TTTACCCTGCATCCTGAAAAGGTGACCGCTTGGTGGGACCCAATGGGTGAGGAAGAGCACCGTGGCCG  
CCCTGCTGCAGAACCTGTACCAGCAACCGGGGCAAGGTGCTCCTGGATGGCGAGCCCTGGTCCAGTA  
CGATCACCACTACCTGCACCGCCAGGTGGTCTGGTGGGGCAGGAGCCTGTGCTGTTCTCCGTTCTGTC  
AAGGACAATATTGCCTATGGCCTGAGGAACTGTGAGGATGCTCAAGTGTGGCTGCTGCCAGGCGGCT  
GTGAGAGCACTCATAGGGGAAATGACGAACGGAATAAACACAGAAATCGGGGAGAGGGAGCCAGTT  
AGCTGTGGGACAGAAGCAACGTCTGGCCATTGCCCGGGCCCTTGTGCGGAACCCGCGGTCTCATCCTG  
GATGAGGCTACCAGTGCCTGGACGCCGAGTGCAGCAGGCTCTTCCAGACCTGGAGATCGCAGGAGGACA  
GGACGATGCTGGTATTGCTCACCGGCTGCACACGGTTTCAAGATGCTGACCAAGTTCTGGTGTCAAGCA  
GGGGCAGCTGGTGGAGCACGACCAGCTCAGGGATGAGCAGGATGTCTACGCTCACTTGGTACAGCAGCGG  
CTGGAAGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR203361 representing NM\_032056  
 Red=Cloning site Green=Tags(s)

MALSYPRPWASLLLVDLALLGLLQRLSLGTLPPGLPGLWLEGLRLGVLWGLLKVGGLLRLVGTFLPLLC  
 LTTPLFFSLRALVGSTMSTSVLRVASASWGWLLAGYVAAALSLAVWAVLSPAGAQEKEPGQENNRALMIR  
 LLRLSKPDLPFLIVAFIFLAMAVWGETLIPHYSGRVIDILGGDFDPDAFASAIFFMCLFSVGSLSAGCR  
 GGSFLFTMSRINLRIREQLFSSLLRQDLAFFQETKTGELNSRLSSDTSLMSRWLPFNANILLRSLVKVVG  
 LYYFMLQVSPRLTFLSLLDLPLTIAAEKVYNPRHQAVLKEIQDVVAKAGQVVREAVGGLQTVRSFGAEEQ  
 EVSRYKEALERCRLWRRDLEKELYLVIRRMALGMQVLIINCGVQQILAGEVTRGGLLSFLLYQEEVG  
 HHVRNLVYMYGDMLSNVGAAEKVFSYLDRRPNLPKPGTLAPRVEGRVEFQDVVSFSYPSRPEKPVQLGLT  
 FTLHPGKVTALVGPNGSGKSTVAALLQNLVQPTGGKVLDDGEPLVQYDHHYLHRQVVLVGQEPVLFSGSV  
 KDNIAYGLRNCEDAQVMAAAQAACADDFIGEMTNGINTEIGERGSQAVGQKQRLAIARALVRNPRVIL  
 DEATSALDAECEQALQTWRSQEDRTMLVIAHRLHTVQNADQVVLVKQGQLVEHDQLRDEQDVYAHLVQQR  
 LEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

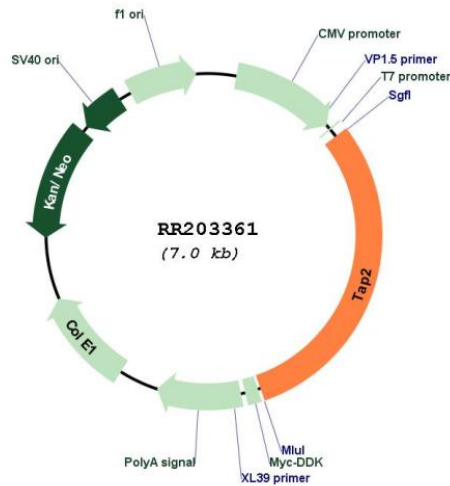
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_032056

**ORF Size:** 2109 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\\_032056.3](#), [NP\\_114445.2](#)

**RefSeq Size:** 2446 bp

**RefSeq ORF:** 2112 bp

**Locus ID:** 24812  
**UniProt ID:** [P36372](#)  
**Cytogenetics:** 20p12  
**MW:** 77.8 kDa  
**Gene Summary:** transports peptides into the ER lumen for binding with MHC class I molecules; plays a role in antigen processing and presentation [RGD, Feb 2006]