

## Product datasheet for **RR204474**

### Tap1 (NM\_032055) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tap1 (NM_032055) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tap1
Synonyms:	Abcb2; Cim; Tap2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RR204474 representing NM\_032055  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGCGCACGCTGGCCGACGGCCGCTTGTCTGTCTGCTGGTGGACTGGCTGCTGCTGCGGCCCG  
 TGCTCCCGGGAATCTTCTCCCTGTTGGTTCCCGAGGTGCCGCTGCTCCGGGTCTGGGCCGTGGGCTTGAG  
 TCGCTGGGCTATCCTGGGACTAGGGGTCCGCGGGTCTCGGGTACCAGCGGGAGCCCGTGGCTGGCTG  
 GCTGCTTTCAGCCGCTGGTGGCGGCGCTGGGTTTGGCCCTGCCTGGACTGCCTCGTTCGAAAGCTGT  
 CCGCTGGGGAGCACTCCGGGAGGGTGACAACGCTGGACTGCTCCACTGGAACAGTCGTTAGATGCCTT  
 CGTTCTCAGTTATGTGGCCGATTGCCCGCAGCTGCCCTGTGGCACAAGTTGGGGGGCTTCTGGCGCCC  
 AGTGGCCACAAGGGCGCTGGAGACATGCTGTGTCGGATGCTAGGCTTCTGGACTCCAAGAAGGGGCGTC  
 TCCACCTGGTTCTGGTTCTTGTATCCTCTCCTGCCTTGGGAAATGGCCATTCCCTTCTCACAGGCCG  
 CATCACTGACTGGATCCTCAGGATAAGACAGCCCCAGCTTCGCCCGCAACATGTGGCTCATGTGTATT  
 CTACCGTAGCCAGTACAGCGCTGGAGTTTGCAGGAGATGGAATCTACAACATCACCATGGGCCACATGC  
 ACAGCCGCGTGCATGGAGAGGTGTTTCGGGCCGCTCCTTACCAGGAGACAGGATTTTTCTGAAGAACCC  
 AACAGGTTCCATCACATCTCGGGTACTGAGGACACCTCCAACGTGTGCGAGTCCATTAGTGACAAGCTG  
 AACCTGTTCTGTGGTACCTGGGGCAGGCCTGTGTCTCCTGGCCTTTCATGATTTGGGGTCACTTACC  
 TCACTGTGGTCAACCTGCTCAGCCTGCCTCTGCTTTTCTTCTGCCAGGAGGCTGGGAAAAGTGTACCA  
 GTCCTGGCAGTGAAGGTGCAGGAGTCTTAGCAAAGTCCACGCAGGTGGCCCTCGAGGCCCTGTGCGCG  
 ATGCCTACCGTACGGAGCTTTGCCAACGAGGAGGAGAGGCCAGAAAGTTAGGCAGAAGTTGGAAGAAA  
 TGAAGCCGCTAAACAAGAAAGAGGCCCTGGCTTACGTCACCGAAGTCTGGACCATGAGTGTCTGGGAAT  
 GCTGCTGAAGGTGGGAATTCTGTACCTCGGTGGGCAGCTGGTGGTCAAGAGGGGCTGTGAGCAGCGCAAC  
 CTGCTCTCCTTTGTTCTTACCAGCTTACGTTACCAGGGCCGTGGAGGTCTGCTCTCCATCTATCCCT  
 CCATGCAGAAGTCCGTGGGCGCCTCGGAGAAAATATTCGAATACCTGGACCGGACTCCCTGCTCTCCGCT  
 CAGTGGCTCACTGGCACCTTTAAACATGAAAGGCCTCGTCAAGTTCGAAGATGTCTCCTTTGCTACCCA  
 AACCATCCCAACGTCCAGGTGCTCAGGGGCTGACTTTTACGCTGTATCCCGGAAGGTGACTGCCTTGG  
 TGGGACCAATGGGTCAAGGAAGAGCACCGTGGCCGCCCTGCTGCAGAACCTGTACCAGCCACCGGGG  
 CAAGGTGCTCCTGGATGGCGAGCTCCTGGTCCAGTATGATCACCCTACCTGCACACGCAGGTGGCCGA  
 GTGGGACAAGAGCCACTGCTATTTGGAAGAAGTTTTCGGGAAAATATTGCCTATGGCCTGACCGGACTC  
 CAACCATGGAGGAAATCACAGCTGTGGCCATGGAGTCCGGAGCCACGATTTTCATCTCTGGATCCCTCA  
 GGGCTATGACACAGAGGTAGGTGAAACTGGGAACCAGCTGTGAGGAGGTGAGCAGAGCCGCTGGCCTT  
 GCTCGAGCCTTGTCCGGAAGCCACGCCTGCTTATCTTGGACGATGCCACCAGTGCCTGGATGCTGGCA  
 ACCAGTACGGGTCCAGCGGCTCCTGTATGAGAGCCCCGAGTGGGCTCTCGGACGGTCTTCTGATCAC  
 CCAGCAGCTCAGCCTGGCAGAGCGGGCCACCACATCCTTCTCAAAGAAGGCTCTGTCTGCGAGCAG  
 GGCACCCACCTGCAGCTCATGGAGAGGAGGGTGTACCGGTCCATGGTGGAGGCTCTTGGCGCTCCTT  
 CAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR204474 representing NM\_032055  
 Red=Cloning site Green=Tags(s)

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MAAHAWPTAALLLLLVDWLLLRPVLPGIFSLLVPEVPLLRVWAVGLSRWAILGLGVRGVLGVTAGARGWL
AALQPLVAALGLALPGLASFRKL SAWGALREGDNAGLLHWNRLDAFVLSYVAALPAAALWHKLGFWAP
SGHKGAGDMLCRMLGFLDSKKGRLLHLVLLILSCLGEMAIPIFFTRITDWILQDKTAPSFARNMWMCI
LTVASTALEFAGDGIYNI TMGHMHSRVHGEVFRVAVLHQETGFFLNKPTGSITSRVTEEDTSNVCESISDKL
NLFLWYLRGRLCLLAFMIWGSFYLTVVTL LSLPLL FLLPRRLGKVYQSLAVKVQESLAKSTQVALEALSA
MPTVRSFANEEGEAQKFRQKLEEMKPLNKKEALAYVTEVWTMSVSGMLLKVGILYLGGQLVVRGAVSSGN
LVSVFVLYQLQFTRAVEVLLSIYPSMQKSVGASEKIFEYLDRTPCSPLSGSLAPLNMGKLVKFQDVSFAYP
NHPNVQVLQGLTFTLYPGKVTALVGPNGSGKSTVAALLQNL YQPTGGKVL LDGELLVQYDHHYLHTQVAA
VGQEPLLFRSFRENIAYGLTRTPTMEEITAVAMESGAHDFISGFPQGYDTEVGETGNQLSGGQRQAVL
ARALIRKPRLLILDDATSALDAGNQLRVQRLLYESPEWASRTVLLITQQLSLAERAHHILFLKEGSVCEQ
GTHLQLMERGGCYRSMVEALAAPSD
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_032055

**ORF Size:** 2175 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\\_032055.4](#), [NP\\_114444.2](#)

**RefSeq Size:** 2693 bp

**RefSeq ORF:** 2178 bp

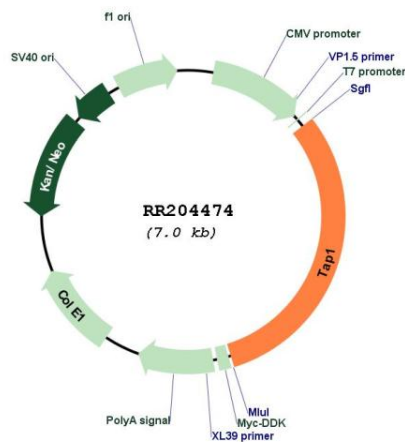
**Locus ID:** 24811

**Cytogenetics:** 20p12

**MW:** 79.1 kDa

**Gene Summary:** has similarity to multidrug resistant transporters; may transport antigenic peptides across the endoplasmic reticulum membrane in preparation for MHC class I presentation [RGD, Feb 2006]

**Product images:**



Circular map for RR204474