

Product datasheet for **MC221090**

Tap1 (NM_013683) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tap1 (NM_013683) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tap1
Synonyms:	ABC17; Abcb; Abcb2; APT1; Ham; Ham-; Ham-1; Ham1; MTP; MTP1; PSF; PSF1; RI; RING4; T; TAP; Tap-1; Y3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221090 representing NM_013683
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCGCACGTCTGGCTGGCGGCCGCCTGCTCCTTCTGGTGGACTGGCTGCTGCTGCGGCCCATGC
 TCCCGGAATCTTCTCCCTGTTGGTCCCGAGGTGCCGCTGCTCCGGGTCTGGGTGGTGGCCTGAGTCG
 CTGGGCCATCCTAGGACTAGGGTCCGCGGGTCTCGGGGTACCCGAGGAGCCATGGCTGGCTGGCT
 GCTTTGCAGCCGCTGGTGGCCGCACTGAGTTTGGCCCTGCCTGGACTTGCCTTGTCCGAGAGCTGGCCG
 CCTGGGAACTCCGGGAGGGTACAGCGCTGGATTACTGTACTGGAACAGTCGTCAGATGCCTTCGC
 TATCAGTTATGTGGCAGCATTGCCCGCAGCCGCTGTGGCACAAGTTGGGGAGCCTCTGGGCGCCAGC
 GGCAACAGGGACGCTGGAGACATGCTGTGTCGGATGCTGGGCTTCTGGGCCCTAAGAAGAGACGTCTCT
 ACCTGGTCTGGTCTCTTATTCTCTTGCCTTGGGAAATGGCCATTCCTTCTTACGGGCCGCAT
 CACTGACTGGATTCTTCAGGATAAGACAGTTTCTAGCTTACCCGCAACATATGGCTCATGTCCATTCTC
 ACCATAGCCAGCAGCGCTGGAGTTTGAAGTATGGAATCTACAACATCACTATGGGACACATGCAGC
 GCCGTGTGCACAGAGAGGTGTTTCGGGCCGCTCTCGCCAGGAGACAGGGTTTTCTGAAGAACCAGC
 AGGTTCCATCACATCTCGGGTACTGAGGACACAGCCAACGTGTGCGAGTCCATTAGTGGCACGCTGAGC
 CTGCTGCTGTGGTACCTGGGCGAGCCCTGTGTCTTGGTGTTCATGTTTTGGGGTACCCGTACCTCA
 CTCTGGTACCCTGATCAACCTGCCCTGCTTTTTCTTTTGCCTAAGAAGCTGGGAAAAGTGCATCAGTC
 ACTGGCAGTGAAGGTGCAGGAGTCTTAGCAAAGTCCACGAGGTGGCCCTTGGGCTTATCGGCGATG
 CCTACTGTGCGGAGCTTTGCCAACGAGGAGGGTGGCCAGAGTTTGGGAGAGTTGGAAGAAATGA
 AGACTCTAAACAAGAAGGAGGCCCTTGGCTTACGTGGCTGAAGTCTGGACCAGAGTGTCTCGGAAATGCT
 GCTGAAGGTGGGAATTCGTACCTGGGCGGCAGCTGGTATCAGAGGGGCTGTCAGCAGCGCAACCTT
 GTCTATTCTGTTCTTACCAGCTTCAAGTTCACCCAGGCTGTTCAAGTCTGCTCTCCCTTACCCCTCCA
 TGCAGAAGGCTGTGGGCTCCTCAGAGAAAATATCGAATACTTGGACCGACTCCTTGTCTCCACTCAG
 TGGCTCGTTGGCACCCCTCAAACATGAAAGGCTTGTGGAGTTCGAAGTGTCTTTTTGCCTACCCAAAC
 CAGCCCAAAGTCCAGGTGCTTACGGGGTACGTTTACCCTGCATCCTGGAACGGTACAGCGTTGGTGG
 GACCCAATGGATCAGGGAAGAGCACCGTGGCTGCCCTGCTGCAGAACCTGTACCAGCCACCGGGGCCA
 GCTGCTGTGGATGGCCAGTGCCTGGTCCAGTATGATCACCATTACCTGCACACTCAGGTGGCCGAGTG
 GGACAAGAGCCGCTGCTATTTGGAAGAAGCTTTGAGAAAATATTGCGTATGGCCTGAACCGGACTCCAA
 CCATGGAGGAAATCACAGCTGTGGCCGTGGAGTCTGGAGCCACGATTTATCTCTGGGTTCCCTCAGGG
 CTATGACACAGAGGTAGGTGAGACTGGGAACAGCTGTCAGGAGGTGACGACAGGACAGTGGCCTTGGCC
 CGAGCCTTATCCGGAAGCCACTCCTGCTTATCTTGGATGATGCCACAGTGCCTTGGATGCTGGCAACC
 AGCTACGGGTCCAGCGGCTCCTGTATGAGAGCCCCAAGCGGGTCTCGGACGGTCTTCTTATACCCCA
 GCAGCTCAGCCTGGCAGAGCAGGCCACCATCTCTTCTCAGAGAAGGCTCTGTGCGGAGCAGGGC
 ACCACCTGCAGCTCATGAAGAGAGGAGGTGCTACCGGCCATGGTAGAGGCTCTTGGGCTCTGCAG
 ACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_013683

Insert Size: 2175 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<ol style="list-style-type: none">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:	<u>NM_013683.2</u> , <u>NP_038711.2</u>
RefSeq Size:	2950 bp
RefSeq ORF:	2175 bp
Locus ID:	21354
UniProt ID:	<u>P21958</u>
Cytogenetics:	17 17.98 cM
Gene Summary:	<p>The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. This protein forms a heterodimer with Tap2 that transports short peptides from the cytosol into the endoplasmic reticulum lumen. Mutations in the human gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>