

Product datasheet for **MC220580**

Tap1 (NM_001161730) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tap1 (NM_001161730) 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: >MC220580 representing NM_001161730
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCGCACGTCTGGCTGGCGGCCGCCTGCTCCTTCTGGTGGACTGGCTGCTGCTGCGGCCCATGC
 TCCCGGAATCTTCTCCCTGTTGGTCCCGAGGTGCCGCTGCTCCGGGTCTGGGTGGGCTGAGTCG
 CTGGGCCATCCTAGGACTAGGGTCCGCGGGTCTCGGGGTACCCGAGGAGCCATGGCTGGCTGGCT
 GCTTTGCAGCCGCTGGTGGCCGCACTGAGTTTGGCCCTGCCTGGACTTGCCTTGTCCGAGAGCTGGCCG
 CCTGGGAACTCCGGGAGGGTACAGCGCTGGATTACTGTACTGGAACAGTCGTCAGATGCCTTCGC
 TATCAGTTATGTGGCAGCATTGCCCGCAGCCGCTGTGGCACAAGTTGGGGAGCCTCTGGGCGCCAGC
 GGCAACAGGGACCTGGAGACATGCTGTGTCGGATGCTGGGCTTCTGGGCCCTAAGAAGAGACGTCTCT
 ACCTGGTCTGGTCTCTTGATTCTCTTGCCTTGGGAAATGGCCATTCCTTCTTACGGGCGCCAT
 CACTGACTGGATTCTTCAGGATAAGACAGTTTCTAGCTTACCCGCAACATATGGCTCATGTCCATTCTC
 ACCATAGCCAGCACAGCGCTGGAGTTTGAAGTATGGAATCTACAACATCACCATGGGACACATGCAGC
 GCCGTGTGCACAGAGAGGTGTTTCGGGCCGCTCTCGCCAGGAGACAGGGTTTTCTGAAGAACCAGC
 AGGTTCCATCACATCTCGGGTACTGAGGACACAGCCAACGTGTGCGAGTCCATTAGTGGCACGCTGAGC
 CTGCTGCTGTGGTACCTGGGCGAGCCCTGTGTCTTGGTGTTCATGTTTTGGGGTACCAGTACCTCA
 CTCTGGTACCCTGATCAACCTGCCCTGCTTTTTCTTTGCCTAAGAAGCTGGGAAAAGTGCATCAGTC
 ACTGGCAGTGAAGGTGCAGGAGTCTTAGCAAAGTCCACGAGGTGGCCCTTGGGCTTATCGGCGATG
 CCTACTGTGCGGAGCTTTGCCAACGAGGAGGCTGAGGCCAGAAAGTTCAGGCAGAAGTTGGAAGAAATGA
 AGACTCTAAACAAGAAGGAGGCCCTTGGCTTACGTGGCTGAAGTCTGGACCAGAGTGTCTCGGAAATGCT
 GCTGAAGCTTCAGTTACCCAGGCTGTTACAGTCTGCTCCCTTACCCTCCATGCAGAAGGCTGTG
 GGCTCCTCAGAGAAAATATTCAATACTTGGACCGGACTCCTTGTCTCCTACTAGTGGCTGTTGGCAC
 CCTCAAACATGAAAGGCCTTGTGGAGTTCGAAGATGTCTTTTTGCCTACCCAAACCAGCCAAAGTCCA
 GGTGCTTCAGGGGCTGACGTTACCCCTGCATCCTGGAACGGTACAGCGTGGTGGGACCCAATGGATCA
 GGAAGAGCACCGTGGCTGCCCTGCTGCAGAACCTGTACCAGCCACCGGGGGCCAGCTGCTGCTGGATG
 GCCAGTGCCTGGTCCAGTATGATCACCATTACCTGCACACTCAGGTGGCCGAGTGGGACAAGAGCCGCT
 GCTATTTGGAAGAAGCTTTCGAGAAAATATTGCGTATGGCCTGAACCGGACTCCAACATGGAGAAATC
 ACAGCTGTGGCCGTGGAGTCTGGAGCCACGATTTTCATCTCTGGGTTCCCTCAGGGCTATGACACAGAGG
 TAGGTGAGACTGGGAACAGCTGTGAGGAGTACGCGACAGGCAGTGGCCTTGGCCCGAGCCTTGATCCG
 GAAGCCACTCCTGCTTATCTTGGATGATGCCACCAGTGCCTGGATGCTGGCAACCAGCTACGGGTCCAG
 CGGCTCCTGTATGAGAGCCCAAGCGGGCTTCTCGGACGGTCTTCTTATCACCCAGCAGCTCAGCCTGG
 CAGAGCAGGCCACCACATCCTCTTTCTCAGAGAAGGCTCTGTGCGGAGCAGGGCACCCACCTGCAGCT
 CATGAAGAGAGGAGGGTGTACCGGCCATGGTAGAGGCTCTTGGCGCTCCTGCAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001161730
- Insert Size:** 2091 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:

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_001161730.1](#), [NP_001155202.1](#)

RefSeq Size: 2866 bp

RefSeq ORF: 2091 bp

Locus ID: 21354

Cytogenetics: 17 17.98 cM

Gene Summary: 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]

Transcript Variant: This variant (2) lacks an alternate in-frame segment compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.