

Product datasheet for **MR226873**

Tap1 (NM_013683) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tap1 (NM_013683) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide
Sequence:

>MR226873 representing NM_013683
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCGCACGTCTGGCTGGCGGCCGCCTGCTCCTTCTGGTGGACTGGCTGCTGCTGCGGCCCATGC
TCCCGGAATCTTCTCCCTGTTGGTCCCGAGGTGCCGCTGCTCCGGGTCTGGGTGGTGGCCTGAGTCG
CTGGGCCATCCTAGGACTAGGGTCCGCGGGTCTCGGGGTACCCGAGGAGCCATGGCTGGCTGGCT
GCTTTGCAGCCGCTGGTGGCCGCACTGAGTTTGGCCCTGCCTGGACTTGCCTTGTCCGAGAGCTGGCCG
CCTGGGAACTCCGGGAGGGTACAGCGCTGGATTACTGTACTGGAACAGTCGTCAGATGCCTTCGC
TATCAGTTATGTGCAGCATTGCCCGAGCCGCTGTGGCACAAGTTGGGGAGCCTCTGGGCGCCAGC
GGCAACAGGGACGCTGGAGACATGCTGTGTCGGATGCTGGGCTTCTGGGCCCTAAGAAGAGACGCTCT
ACCTGGTCTGGTCTCTTATTCTCTTGCCTTGGGAAATGGCCATTCCTTCTTACGGGCGCCAT
CACTGACTGGATTCTTCAGGATAAGACAGTTTCTAGCTTACCCGCAACATATGGCTCATGTCCATTCTC
ACCATAGCCAGCACAGCGCTGGAGTTTGAAGTATGGAATCTACAACATCACTATGGGACACATGCAGC
GCCGTGTGCACAGAGAGGTGTTTCGGGCCGCTCTCGCCAGGAGACAGGGTTTTCTGAAGAACCCAGC
AGGTTCCATCACATCTCGGGTACTGAGGACACAGCCAACGTGTGCGAGTCCATTAGTGGCACGCTGAGC
CTGCTGCTGTGGTACCTGGGCGAGCCCTGTGTCTTGGTGTTCATGTTTTGGGGTACCCGTACCTCA
CTCTGGTCAACCCTGATCAACCTGCCCTGCTTTTTCTTTGCCTAAGAAGCTGGGAAAAGTGCATCAGTC
ACTGGCAGTGAAGGTGCAGGAGTCTTAGCAAAGTCCACGAGGTGGCCCTTGGAGCCTATCGGCGATG
CCTACTGTCCGGAGCTTTGCCAACGAGGAGGGTGGCCAGAGTTCAGGCAGAAGTTGGAAGAAATGA
AGACTCTAAACAAGAAGGAGGCCCTTGGCTTACGTGGCTGAAGTCTGGACCAGAGTGTCTCGGGAATGC
GCTGAAGGTGGGAATTCGTACCTGGGCGGCAGCTGGTATCAGAGGGGCTGTCAGCAGCGGCAACCTT
GTCTATTCTGTTCTTACCAGCTTCACTTACCCAGGCTGTTCAAGTCTGCTCTCCCTTACCCCTCCA
TGCAGAAGGCTGTGGCTCCTCAGAGAAAATATCGAATACTTGGACCGACTCCTTGTCTCCACTCAG
TGGCTCGTTGGCACCCCTCAAACATGAAAGGCCCTTGGAGTTCGAAGATGTCTTTTTGCCTACCCAAAC
CAGCCCAAAGTCCAGGTGCTTCAAGGGCTGACGTTACCCCTGCATCCTGGAACGGTACAGCGTTGGTGG
GACCCAATGGATCAGGGAAGAGCACCGTGGCTGCCCTGCTGCAGAACCTGTACCAGCCACCGGGGCCA
GCTGCTGTGGATGGCCAGTGCCTGGTCCAGTATGATCACCATTACCTGCACACTCAGGTGGCCGAGTG
GGACAAGACCGCTGCTATTTGGAAGAAGCTTTGAGAAAATATTGCGTATGGCCTGAACCGGACTCCAA
CCATGGAGGAAATCACAGCTGTGCCGTGGAGTCTGGAGCCACGATTTATCTCTGGGTTCCCTCAGGG
CTATGACACAGAGGTAGGTGAGACTGGGAACAGCTGTCAGGAGGTGACGACAGGCAGTGGCCTTGGCC
CGAGCCTTGATCCGGAAGCCACTCCTGCTTATCTTGGATGATGCCACAGTGCCTGGATGCTGGCAACC
AGCTACGGGTCCAGCGGCTCCTGTATGAGAGCCCCAAGCGGGTCTCGGACGGTCTTCTTATCACCCA
GCAGCTCAGCCTGGCAGAGCAGGCCACCATCTCTTCTCAGAGAAGGCTCTGTGCGGAGCAGGGC
ACCCACCTGCAGCTCATGAAGAGAGGAGGGTGTACCCGGCCATGGTAGAGGCTCTTGGGCTCTGCAG
AC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226873 representing NM_013683
 Red=Cloning site Green=Tags(s)

MAAHVWLA A A A L L L V D W L L L R P M L P G I F S L L V P E V P L L R V W V V G L S R W A I L G L G V R G V L G V T A G A H G W L A
 A L Q P L V A A L S L A L P G L A L F R E L A A W G T L R E G D S A G L L Y W N S R P D A F A I S Y V A A L P A A A L W H K L G S L W A P S
 G N R D A G D M L C R M L G F L G P K K R R L Y L V L L I L S C L G E M A I P F F T G R I T D W I L Q D K T V P S F T R N I W L M S I L
 T I A S T A L E F A S D G I Y N I T M G H M H G R V H R E V F R A V L R Q E T G F F L K N P A G S I T S R V T E D T A N V C E S I S G T L S
 L L L W Y L G R A L C L L V F M F W G S P Y L T L V T L I N L P L L F L L P K K L G K V H Q S L A V K V Q E S L A K S T Q V A L E A L S A M
 P T V R S F A N E E G E A Q K F R Q K L E E M K T L N K K E A L A Y V A E V W T T S V S G M L L K V G I L Y L G G Q L V I R G A V S S G N L
 V S F V L Y Q L Q F T Q A V Q V L L S L Y P S M Q K A V G S S E K I F E Y L D R T P C S P L S G S L A P S N M K G L V E F Q D V S F A Y P N
 Q P K V Q V L Q G L T F T L H P G T V T A L V G P N G S G K S T V A A L L Q N L Y Q P T G G Q L L L D G Q C L V Q Y D H H Y L H T Q V A A V
 G Q E P L L F G R S F R E N I A Y G L N R T P T M E E I T A V A V E S G A H D F I S G F P Q G Y D T E V G E T G N Q L S G G Q R Q A V A L A
 R A L I R K P L L L I L D D A T S A L D A G N Q L R V Q R L L Y E S P K R A S R T V L L I T Q Q L S L A E Q A H H I L F L R E G S V G E Q G
 T H L Q L M K R G G C Y R A M V E A L A A P A D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_e05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_013683

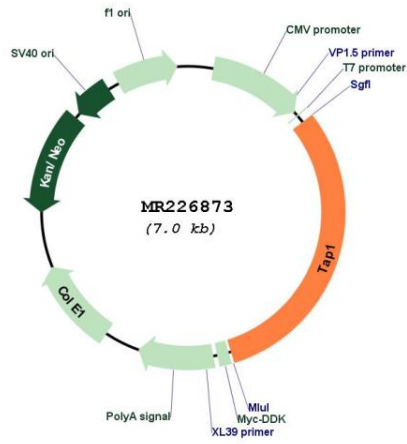
ORF Size: 2172 bp

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:	<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
MW:	79.3 kDa
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]

Product images:



Circular map for MR226873