

Product datasheet for **SC122568**

TAP1 (NM_000593) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAP1 (NM_000593) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAP1
Synonyms:	ABC17; ABCB2; APT1; D6S114E; PSF-1; PSF1; RING4; TAP1*0102N; TAP1N
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_000593 edited
GTGTGCGTGATGGAGAAAATTGGGCACCAGGGCTGCTCCCAGATTCTCAGATCTGATTT
CCACGCTTGCTACCAAAATAGTCTGGGCAGGCCACTTTTGAAGTAGGCGTTATCTAGTG
AGCAGGCGGCGCTTTTCGATTTCCGCTTTCCCTAAATGGCTGAGCTTCTCGCCAGCGCAG
GATCAGCCTGTTCTGGGACTTTCCGAGAGCCCCGCCCTGTTCCCTCCCCAGCCGCCA
GTAGGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCCCACGGGGCGCGGAGAGTCCCA
GGCCCCGGCCGGACCCGGACGGCGTCCGAGTGCCAAATGGCTAGCTCTAGGTGTCCCGCTC
CCCGCGGGTGCCCTGCCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTAC
TTCTCGCCGACTGGGTGCTGCTCCGGACCGCGCTGCCCCGCATATTCTCCCTGCTGGTGC
CCACCGCGCTGCCACTGCTCCGGGTCTGGGCGGTGGGCCTGAGCCGCTGGGCCGTGCTCT
GGCTGGGGCCTGCGGGTCTCAGGGCAACGGTTGGCTCCAAGAGCGAAAACGCAGGTG
CCCAGGGCTGGCTGGCTGCTTTGAAGCCATTAGCTGCGGCACTGGGCTTGGCCCTGCCGG
GACTTGCCTTGTCCGAGAGCTGATCTCATGGGGAGCCCCGGTCCGCGGATAGCACCA
GGCTACTGCACTGGGAAGTACCCTACCGCTTCGTTGTAGTTATGCAGCGGCACTGC
CCGCAGCAGCCCTGTGGCACAACCTCGGGAGCCTCTGGGTGCCCGCGGTGAGGGCGGCT
CTGAAAACCTGTGCGTGGCTTCTAGGCTGCCTGGGCTCGGAGACGCGCCGCTCTCGC
TGTTCTGGTCTGGTGGTCTCTCTCTCTTGGGGAGATGGCCATTCCATTCTTTACGG
GCCGCTCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTCACTCGAACTTAA
CTCTCATGTCCATTCTCACCATAGCCAGTGCAGTGTGGAGTTCGTGGGTGACGGGATCT
ATAACAACACCATGGGCCACGTGCACAGCCACTGCAGGGAGAGGTGTTTGGGGCTGTCC
TGCGCCAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTAACATCATGTCTCGGGTAA
CAGAGGACACGTCCACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTTCTGTGGT
ACCTGTGCGGAGCCTATGTCTCTTGGGATCATGCTCTGGGGATCAGTGTCCCTCACCA
TGGTCACCCTGATCACCTGCCTGCTTTTCTTCTGCCAAGAAGGTGGGAAAATGGT
ACCAGTTGCTGGAAGTGCAGGTGCGGGAATCTCTGGCAAAGTCCAGCCAGGTGGCCATTG
AGGCTCTGTGCGCCATGCCTACAGTTTCAAGCTTTGCCAACGAGGAGGGCGAAGCCAGA
AGTTTAGGAAAAGCTGCAAGAAATAAAGACTCAACCAGAAGGAGGCTGTGGCCTATG
CAGTCAACTCCTGGACCACTAGTATTTCAAGTATGCTGCTGAAAGTGGGAATCCTCTACA
TTGGTGGGCAGCTGGTGACCAGTGGGGCTGTAAGCAGTGGGAACCTTGTACATTTGTTT
TCTACCAGATGCAGTTCACCCAGGCTGTGGAGTACTGCTCTCCATCTACCCAGAGTAC
AGAAGGCTGTGGGCTCCTCAGAGAAAATATTTGAGTACCTGGACCGCACCCCTCGCTGCC
CACCCAGTGGTCTGTTGACTCCCTTACACTTGGAGGGCCTTGTCCAGTTCGAAGATGTCT
CCTTTGCCTACCCAAACCGCCAGATGTCTTAGTGTACAGGGGCTGACATTACCCCTAC
GCCCTGGCGAGGTGACGGCGCTGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTG
CCCTGTGTCAGAACTGTGACCAGCCACCGGGGACAGCTGCTGTTGGATGGGAAGCCCC
TTCCCCAATATGAGCACCCTACCTGCACAGGCAGGTGGCTGCAGTGGGACAAGAGCCAC
AGGTATTTGGAAGAAGTCTTCAAGAAAATATTGCCTATGGCCTGACCCAGAAGCCAACTA
TGGAGGAAATCACAGCTGCTGCAGTAAAGTCTGGGGCCATAGTTTCATCTCTGGACTCC
CTCAGGGCTATGACACAGAGGTAGACGAGGCTGGGAGCCAGCTGTCAGGGGGTCAAGCAG
AGGCAGTGGCGTTGGCCGAGCATTGATCCGAAACCGTGTGACTTATCCTGGATGATG
CCACCAGTGCCCTGGATGCAAAACAGCCAGTTACAGGTGGAGCAGCTCCTGTACGAAAGCC
CTGAGCGGTACTCCCGCTCAGTGCTTCTCATCACCCAGCACCTCAGCCTGGTGGAGCAGG
CTGACCACATCTCTTTTGGAAAGGAGGCGCTATCCGGGAGGGGGGAACCCACCAGCAGC
TCATGGAGAAAAGGGGTGCTACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAAT
GAAAGCCTTCTCAGACCTGCGCACTCCATCTCCCTCCCTTTTCTCTCTGTGGTGGAG
AACCACAGCTGCAGAGTAGGCAGCTGCCCTCAGGATGAGTTACTTAAAATTTGCCTTGAG
TGTGTTACCTCCTTTCAAGCTCCTCGTGATAATGCAGACTTCTGGAGTACAAACACAG
GATTTGTAATTCCTTACTGTAACGGAGTTTAGAGCCAGGCTGATGCTTTGGTGTGGCCA
GCACTCTGAAAAGTGAAGATGTTTCAAGATGTACGAAAGATGATCAGCTATTTTCAACAT
AACTGAAGGCATATGCTGGCCATAAACACCCTGTAGGTTCTTGATATTTATAATAAAAT
TGGTGTGTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_000593 unedited NCCGCAGTTCCGATTTGTNATACGACTTCACTATAGGCGGCCGCAATTCGCACGAGGT GTGCGTGATGGAGAAAATGGGCACCAGGGCTGCTCCCGAGATTCTCAGATCTGATTTCCA CGTTGCTACAAAATAGTCTGGGCAGGCCACTTTTGAAGTAGGCGTTATCTATTGAGC AGGCGGCCGCTTTCGATTTCCGTTTCCCCTAAATGGCTGAGCTTCTCGCCAGCGCAGGAT CAGCCTGTTCTGGGACTTTCGAGAGCCCCGCCCTCGTTCCTCCCCAGCCGCCAGTA GGGGAGGACTCGGCGGTACCCGGAGCTTCAGGCCCCACCGGGGCGGAGAGTCCCAGGC CCGGCCGGGACCGGACGGCTCCGAGTGCCAATGGCTAGCTCTAGGTGTCCCGTCCCC GCGGGTGCCGCTGCCTCCCCGGAGCTTCTCTCGCATGGCTGGGGACAGTACTGCTACTTC TCGCCGACTGGGTGCTGCTCCGGACCGCTGCCCGCATATTCTCCCTGCTGGTGCCCA CCGCGTGCCACTGCTCCGGGTGTTGGGCGTGGGCCTGAGCCGCTGGGCCGTGCTCTGGC TGGGGCTCGGGGTCTCAGGGCAACGGTTGGCTCCAAAAGCGAAAACGCAGGTGCC AGGGCTGGCTGGTGCTTTGAAGCCATTACCTGCGGCACTGGGGCTTGGCCCTGCCCGG ACTTGCCTTGTCCCGAGAGCTGATCTCATGGGGAGCCCCGGTCCCCGAATACCA GCTACTGGACTGGGGAAATCACCTACCCCTCGTTGGCCGATATGCAGCGGCACTGCC CGACAACCCTGTGGCCAAACCTCGGACCCTGGGTGCC
Restriction Sites:	Please inquire
ACCN:	NM_000593
Insert Size:	2983 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	NM_000593.5 , NP_000584.2
RefSeq Size:	2974 bp

RefSeq ORF:	2427 bp
Locus ID:	6890
UniProt ID:	Q03518
Cytogenetics:	6p21.32
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters, Antigen processing and presentation, Primary immunodeficiency
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. The protein encoded by this gene is involved in the pumping of degraded cytosolic peptides across the endoplasmic reticulum into the membrane-bound compartment where class I molecules assemble. Mutations in this 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, May 2014]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>