

Product datasheet for **SC310195**

TAP2 (NM_018833) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAP2 (NM_018833) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAP2
Synonyms:	ABC18; ABCB3; APT2; D6S217E; PSF-2; PSF2; RING11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC310195 representing NM_018833.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCGGCTCCCTGACCTGAGACCCTGGACCTCCCTGCTGGTGGACGGGCTTTACTGTGGCTGCTT
CAGGGCCCTCTGGGGACTTTGCTTCCTCAAGGGCTGCCAGGACTATGGCTGGAGGGGACCCTGCGGCTG
GGAGGGCTGTGGGGGCTGCTAAAGCTAAGAGGGCTGCTGGGATTTGTGGGACACTGCTGCTCCCGCTC
TGCTGGCCACCCCTGACTGTCTCCCTGAGAGCCCTGGTCGCGGGGGCCTCACGTGCTCCCCAGCC
AGAGTCGCTTCAGCCCCTTGAGCTGGCTGCTGGTGGGTACGGGGCTGCGGGGCTCAGCTGGTCACTG
TGGGCTGTTCTGAGCCCTCTGGAGCCCAGGAGAAGGAGCAGGACCAGGTGAACAACAAAGTCTTGATG
TGGAGGCTGCTGAAGCTCTCCAGGCCGGACCTGCCTCTCCTCGTTGCCGCTTCTTCTCCTTGCTCTT
GCTGTTTTGGGTGAGACATTAATCCCTCACTATTCTGGTCGTGTGATTGACATCCTGGGAGGTGATTTT
GACCCCATGCCTTTGCCAGTGCCATCTTCTTCATGTGCCTCTTCTCCTTTGGCAGCTCACTGTCTGCA
GGCTGCCGAGGAGGCTGCTTACCTACACCATGTCTCGAATCAACTTGGGATCCGGGAGCAGCTTTTC
TCCTCCCTGCTGCGCCAGGACCTCGTTTTCTCCAGGAGACTAAGACAGGGGAGCTGAACCTACGGCTG
AGCTCGGATACCACCCTGATGAGTAACGGCTTCTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTG
AAAGTGGTGGGGCTGTATGGCTTCATGCTCAGCATATCGCTCGACTCACCTCCTTTCTGCTGCAC
ATGCCCTTCACAATAGCAGCGGAGAAGGTGTACAACCCCGCCATCAGGAAGTGCTTCGGGAGATCCAG
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GGGGCCGAGGAGCATGAAGTCTGTCGTATAAAGAGGCCCTTGAACAATGTCGGCAGCTGTATTGGCGG
AGAGACCTGGAACGCGCCTGTACCTGCTCGTAAGGAGGGTCTGCACCTGGGGTGCAGATGCTGATG
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CCCACCACTCTGCAGGGGTTGTGAAATCCAAGACGTCTCCTTTGCATATCCAATCGCCCTGACAGG
CCTGTGCTCAAGGGGCTGACGTTTACCCTACGTCTGTTGAGGTGACGGCGCTGGTGGGACCCAATGGG
TCTGGGAAGACACAGTGGCTGCCCTGCTGCAGAACTGTACCAGCCACAGGGGACAGGTGCTGCTG
GATGAAAAGCCCATCTCACAGTATGAACACTGCTACCTGCACAGCAGGTGGTTTCAGTTGGCAGGAG
CCTGTGCTGTTCTCCGGTCTGTGAGGAACAACATTGCTTATGGGCTGCAGAGCTGCGAAGATGATAAG
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GATGTAGGGGAGAAGGAAGCCAGCTGGCTGCGGGACAGAAACAAGTCTGGCCATTGCCGGGCCCTT
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AAAACCTTTGGAAGTTCATGATATTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
Plasmid Map: □
ACCN: NM_018833
Insert Size: 1962 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
Components:	<p>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).</p>
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_018833.2
RefSeq Size:	2540 bp
RefSeq ORF:	1962 bp
Locus ID:	6891
UniProt ID:	Q03519
Cytogenetics:	6p21.32
Domains:	ABC_membrane, ABC_tran, AAA
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	ABC transporters, Antigen processing and presentation, Primary immunodeficiency
MW:	72 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 gene is located 7 kb telomeric to gene family member ABCB2. The protein encoded by this gene is involved in antigen presentation. This protein forms a heterodimer with ABCB2 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. Alternative splicing of this gene produces products which differ in peptide selectivity and level of restoration of surface expression of MHC class I molecules. [provided by RefSeq, Feb 2014]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus compared to isoform 1.