

Product datasheet for **SC337199**

TAP2 (NM_001290043) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAP2 (NM_001290043) 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: >NCBI ORF sequence for NM_001290043, the custom clone sequence may differ by one or more nucleotides

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ATGCGGCTCCCTGACCTGAGACCCCTGGACCTCCCTGCTGCTGGTGGACGCGGCTTTACTGTGGCTGCTTC
AGGGCCCTCTGGGACTTTGCTTCCTCAAGGGCTGCCAGGACTATGGCTGGAGGGGACCCCTGCGGTGGG
AGGGCTGTGGGGCTGCTAAAGCTAAGAGGGCTGCTGGGATTTGTGGGACACTGCTGCTCCCGCTCTGT
CTGGCCACCCCTGACTGTCTCCTGAGAGCCCTGGTCGCGGGGCTCACGTGCTCCCCAGCCAGAG
TCGCTTACGCCCCTTGGAGCTGGCTGCTGGTGGGTACGGGGCTGCGGGGCTCAGCTGGTACTGTGGGC
TGTTCAGACCCCTCTGGAGCCAGGAGAAGGAGCAGGACCAGGTGAACAACAAAGTCTTGATGTGGAGG
CTGCTGAAGCTCTCCAGGCCGGACCTGCCTCTCCTCGTTGCCGCTTCTTCTTCTTGTCTTGTGTTT
TGGGTGAGACATTAATCCCTCACTATTCTGGTCTGTGATTGACATCCTGGGAGGTGATTTTGACCCCA
TGCCTTGGCAGTGCCATCTTCTCATGTGCCTTCTCCTTTGGCAGCTCACTGCTGCAGGCTGCCGA
GGAGGCTGCTTACCTACACCATGTCTCGAATCAACTTGGGATCCGGGAGCAGCTTTTCTCCTCCCTGC
TGGCCAGGACCTCGGTTTCTTCCAGGAGACTAAGACAGGGGAGCTGAACTCACGGCTGAGCTCGGATAC
CACCCTGATGAGTAACTGGCTTCTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTGAAGTGGTGGGG
CTGTATGGCTTATGCTCAGCATATCGCCTCGACTCACCTCCTTTCTCTGCTGCACATGCCCTTACAA
TAGCAGCGGAGAAGGTGTACAACACCCGCCATCAGGAAGTCTTCCGGGAGATCCAGGATGCAAGTGGCCAG
GGCGGGGACAGGTGGTGGCGGAAGCCGTTGGAGGGCTGCAGACCGTTTCGCAGTTTTGGGGCCGAGGAGCAT
GAAGTCTGTGCTATAAAGAGGCCCTTGAACAATGTGGCAGCTGATTGGCGGAGAGACCTGGAACGCG
CCTTGTACCTGCTCGTAAGGAGGGTGTGCACTTGGGGTGCAGATGCTGATGCTGAGCTGTGGGCTGCA
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AGCTATGTGCAGACCCCTGGTATACATATATGGGATATGCTCAGCAACGTGGGAGCTGCAGAGAAGTTTT
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TGTGAAATTCCAAGAGCTCTCCTTTCATATCCCAATCGCCTGACAGGCTGTGCTCAAGGGGCTGACG
TTTACCCTACGCTCTGGTGGAGGTGACGGCCTGGTGGGACCCAATGGGTCTGGGAAGAGCACAGTGGCTG
CCCTGCTGCAGAACTGTACCAGCCACAGGGGACAGGTGCTGCTGGATGAAAAGCCCATCTCACAGTA
TGAACACTGCTACCTGCACAGCCAGGTGGTTTCAGTTGGGCAGGAGCCTGTGCTGTTCTCCGTTTGTG
AGGAACAACATTGCTTATGGGCTGCAGAGCTGCGAAGATGATAAGGTGATGGCGGCTGCCAGGCTGCC
ACGCAGATGACTCATCCAGGAAATGGAGCATGGAATATACACAGATGTAGGGGAGAAGGGAAGCCAGCT
GGCTGCGGGACAGAAACAACGTCTGGCCATTGCCCGGGCCCTTGTACGAGACCCGCGGTCTCATCCTG
GATGAGGCTACTAGTGCCCTAGATGTGAGTGCAGTGCAGCAGGCCCTGCAGGACTGGAATCCCCTGGGGATC
GCACAGTGTGGTATTGCTCACAGGCTGCAGACAGTTCAGCGCGCCACCAGATCCTGGTGTCTCCAGGA
GGCAAGCTGCAGAAGCTTGCCAGCTTAG
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001290043

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:	NM_001290043.1 , NP_001276972.1
RefSeq Size:	5732 bp
RefSeq ORF:	2061 bp
Locus ID:	6891
UniProt ID:	Q03519
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. 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]</p> <p>Transcript Variant: This variant (1, A allele) differs at 3 nt positions compared to variant 1, B allele. The resulting isoform (3) is shorter at the C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>