

Product datasheet for **RG222611**

TAP2 (NM_000544) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAP2 (NM_000544) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAP2
Synonyms:	ABC18; ABCB3; APT2; D6S217E; PSF-2; PSF2; RING11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG222611 representing NM_000544
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGCTCCCTGACCTGAGACCCTGGACCTCCCTGCTGCTGGTGGACGCGGCTTTACTGTGGCTGCTTC
 AGGGCCCTCTGGGACTTTGCTTCTCAAGGGCTGCCAGGACTATGGCTGGAGGGGACCCTGCGGCTGGG
 AGGGCTGTGGGGCTGCTAAAGCTAAGAGGGCTGCTGGGATTTGTGGGACACTGCTGCTCCCGCTCTGT
 CTGGCCACCCCTGACTGTCTCCCTGAGAGCCCTGGTCGCGGGGCTCACGTGCTCCCCAGCCAGAG
 TCGCTTACGCCCCTGGAGCTGGCTGCTGGTGGGTACGGGGCTGCGGGGCTCAGCTGGTCACTGTGGG
 TGTTCTGAGCCCTCTGGAGCCAGGAGAAGGAGCAGGACCAGGTGAACAACAAAGTCTTGATGTGGAGG
 CTGCTGAAGCTCTCCAGGCCGACCTGCCTCTCCTCGTTGCCGCTTCTTCTTCTTGTCTTGTGTTT
 TGGGTGAGACATTAATCCCTCACTATTCTGGTCTGTGATTGACATCCTGGGAGGTGATTTTGACCCCA
 TGCTTTGCCAGTGCCATCTTCTCATGTGCCTTCTCCTTTGGCAGCTCACTGTCTGAGGCTGCCGA
 GGAGGCTGCTTACCTACACCATGTCTCGAATCAACTTGGCGATCCGGGAGCAGCTTTTCTCTCCCTGC
 TGGCCAGGACCTCGGTTTCTTCCAGGAGACTAAGACAGGGGAGCTGAACTCACGGCTGAGCTCGGATAC
 CACCCTGATGAGTAACTGGCTTCTTTAAATGCCAATGTGCTCTTGCGAAGCCTGGTAAAAGTGGTGGG
 CTGTATGGCTTCACTGCTCAGCATATCGCCTCGACTCACCTCCTTTCTCTGCTGCACATGCCCTTCAAA
 TAGCAGCGGAGAAGGTGTACAACACCCGCCATCAGGAAGTGTTCGGGAGATCCAGGATGCACTGGCCAG
 GCGGGGACAGGTGGTGGGGAAGCCGTTGGAGGGCTGCAGACCGTTTCGAGTTTTGGGGCCGAGGAGCAT
 GAAGTCTGTGCTATAAAGAGGCCCTTGAACAATGTGGCAGCTGATTGGCGGAGAGACCTGGAACGCG
 CCTTGTACCTGCTCGTAAGGAGGGTGTGCACTTGGGGTGCAGATGCTGATGCTGAGCTGTGGGTCGA
 GCAGATGCAGGATGGGGAGCTCACCCAGGGCAGCCTGCTTTCCTTTATGATCTACCAGGAGAGCGTGGGG
 AGCTATGTGCAGACCCTGGTATACATATATGGGATATGCTCAGCAACGTGGGAGCTGCAGAGAAGGTTT
 TCTCTACATGGACCGACAGCCAAATCTGCCTTACCTGGCACGCTTGCCCCACCACTCTGCAGGGGGT
 TGTGAAATCCAAGACGTCTCCTTTGCATATCCCAATCGCCTGACAGGCCTGTGCTCAAGGGGCTGACG
 TTTACCCTACGCTCCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG
 CCCTGCTGCAGAACTGTACCAGCCACAGGGGACAGGTGCTGCTGGATGAAAAGCCCATCTCACAGTA
 TGAACACTGCTACCTGCACAGCCAGGTGGTTTCAGTTGGCAGGAGCCTGTGCTGTTCTCCGTTTCTGTG
 AGGAACAACATTGCTTATGGGCTGCAGAGCTGCGAAGATGATAAGGTGATGGCGGCTGCCAGGCTGCCC
 ACGCAGATGACTTCATCCAGGAAATGGAGCATGGAATATACACAGATGTAGGGGAGAAGGGAAGCCAGCT
 GGCTGCGGGACAGAAACACGTCTGGCCATTGCCCGGGCCCTTGTACGAGACCCGCGGTCTCATCCTG
 GATGAGGCTACTAGTGCCTAGATGTGCAGTGCAGCAGGCCCCTGCAGGACTGGAATTCCTGGGGATC
 GCACAGTGTGGTATTGCTCACAGGCTGCAGGCAGTTTCAGCGCGCCACCAGATCCTGGTGTCCAGGA
 GGGCAAGCTGCAGAAGCTTGCCAGCTCCAGGAGGGACAGGACCTCTATTCCCGCTGGTTCAGCAGCGG
 CTGATGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222611 representing NM_000544
 Red=Cloning site Green=Tags(s)

```
MRLPDLRPWTSLLL VDAALLWLLQGPLGTLLPQGLPGLWLEGLRLGGLWGLLKLRLGGLGFVGTLLPLC
LATPLTVSLRALVAGASRAPPARVASAPSWLLVGYGAAGLSWSLWAVLSPPGAQEKEQDQVNNKVL MWR
LLKL SRPDLPLLVAFFFLVLAVLGETLIPHYSGRVIDILGGDFDPHAFASAIFFMCLFSFGSSL SAGCR
GGCFTYMSRINLRIREQLFSSLLRQDLGFFQETKTGELNSRLSSDTTLM SNWLP LNANVLLRSLVKVVG
LYGFMLSISPRLTLLSLLHMPFTIAAEKVYNTRHQEVLREIQDAVARAGQV VREAVGGLQTVRSFGAEH
EVCRYKEALEQCRQLYWRDLERALLYLLVRRVLHLGVQMLMLSCGLQMQD GELTQGSLLSFM IYQESVG
SYVQTLVYIYGDMLSNVGAAEKVFSYMDRQPNLPSPGTLAPTTLQGVVKFQDV SFAYPNRDRPVLKGLT
FTLRPGEVTALVGPNGSGKSTVAALLQNL YQPTGGQVLLDEKPI SQYEHCYLHSQVVS VQGEPVLFSGSV
RNNIAYGLQSCEDDKVMAAAQA AHADDFIQEMEHGIYTDVGEKGSQLAAGQKQRLA IARALVRDPRVIL
DEATSALDVQCEQALQDWN SRGDRTVLVI AHRLQAVQRAHQILVLQEGK LQKLAQLQEGQDLYSRLVQQR
LMD
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000544

ORF Size: 2109 bp

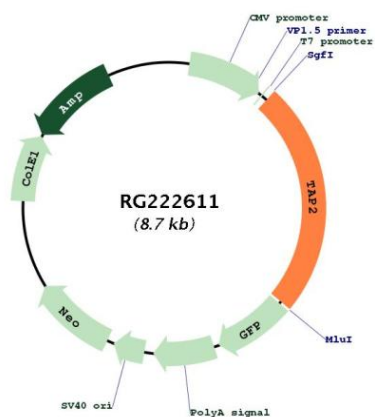
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	NM_000544.3 , NP_000535.3
RefSeq Size:	5679 bp
RefSeq ORF:	2112 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
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>

Product images:



Circular map for RG222611