

Product datasheet for **RG238841**

TAP1 (NM_001292022) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAP1 (NM_001292022) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAP1
Synonyms:	ABC17; ABCB2; APT1; D6S114E; PSF-1; PSF1; RING4; TAP1*0102N; TAP1N
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238841 representing NM_001292022.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCATTCCATTCTTTACGGGCCCGCTCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTC
ACTCGAACTTAACTCTCATGTCCATTCTCACCATAGCCAGTGCAGTGCCTGGAGTTCGTGGGTGACGGG
ATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGACGGGAGAGGTGTTTGGGGCTGCTCTGCCG
CAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTAACATCATGTCTCGGGTAACAGAGGACACGTCC
ACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTCTGTGGTACCTGGTGCAGGCCTATGTCTC
TTGGGGATCATGCTCTGGGGATCAGTGTCCCTCACCATGGTCACCCTGATCACCTGCCTCTGCTTTTC
CTTCTGCCAAGAAGGTGGGAAATGGTACCAGTTGCTGGAAGTGCAGGTGCGGGAATCTCTGGCAAAG
TCCAGCCAGGTGGCCATTGAGGCTCTGTCGGCCATGCCTACAGTTCGAAGCTTTGCCAACGAGGAGGGC
GAAGCCAGAAGTTTAGGAAAAGCTGCAAGAAATAAGACACTCAACCAGAAGGAGGCTGTGCCCTAT
GCAGTCAACTCTGGACCACTAGTATTTAGGTATGCTGCTGAAAGTGGGAATCTCTACATTGGTGGG
CAGCTGGTGACCACTGGGGCTGTAAAGCAGTGGGAACCTTGTACATTTGTCTCTACCAGATGCAGTTC
ACCCAGGCTGTGGAGGACTGCTCTCCATCTACCCAGAGTACAGAAGGCTGTGGGCTCCTCAGAGAAA
ATATTTGAGTACCTGGACCGCACCCCTCGCTGCCACCCAGTGGTCTGTTGACTCCCTTACACTGGAG
GGCCTTGTCCAGTCCAAGATGTCTCCTTTGCCTACCCAAACCGCCAGATGTCTTAGTGCTACAGGGG
CTGACATTCACCCACGCCCTGGCGAGGTGACGGCGCTGGTGGGACCAATGGGTCTGGGAAGAGCACA
GTGGCTGCCCTGCTGCAGAACTGTACCAGCCACCGGGGACAGCTGCTGTTGGATGGGAAGCCCTT
CCCCAATATGACACCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGACAAGAGCCACAGGTATTTGGA
AGAAGCTTCAAGAAAAATTGCCTATGGCTGACCCAGAAGCCAACTATGGAGGAAATCACAGCTGCT
GCAGTAAAGTCTGGGGCCATAGTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGGTAGACGAG
GCTGGGAGCCAGCTGTCAGGGGTGACGGACAGGCAGTGGCGTTGGCCCGAGCATTGATCCGAAACCG
TGTGTACTIONTATCCTGGATGATGCCACCACTGCCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTC
CTGTACGAAAGCCCTGAGCGGTACTIONTCTCAGTCTCTCATCACCCAGCACCTCAGCCTGGTGGAG
CAGGCTGACCACATCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGAAACCACAGCAGCTCATG
GAGAAAAAGGGTCTACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238841
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MAIPFFTGRLTDWILQDGSADTFTRNLTLMSILTIASAVLEFVGDGIYNNMTMGHVHSHLQGEVFGAVLR
QETEFFQQNQGTGNIMSRVTEDTSTLSDSLSENLFLWYLVRGLCLLGIMLWGSVSLTMVTLITLPLLF
LLPKKVGKWKYQLLEVVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKFREKLQEIKTLNQKEAVAY
AVNSWTTISGMLLKVGILYIGGQLVTSAGVSSGNLVTFVLYQMFTQAVEVLLSIYPRVQKAVGSSEK
IFEYLDRTPRCPPSGLLTPHLLEGLVQFDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPNGSGKST
VAALLQNLQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGRSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQVEQL
LYESPERYSRVLITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMVQAPADAPE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites:

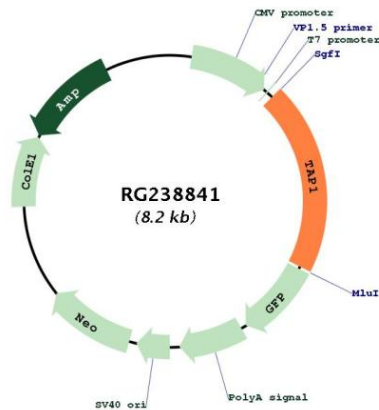
Sgfl-MluI

Cloning Scheme:


- ACCN:** NM_001292022
- ORF Size:** 1641 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).
- RefSeq:** [NM_001292022.2](#)
- RefSeq Size:** 2234 bp
- RefSeq ORF:** 1644 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
- MW:** 60.4 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. 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]

Product images:

Circular map for RG238841