

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)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCATTCCATTCTTTACGGGCCCGCTCACTGACTGGATTCTACAAGATGGCTCAGCCGATACCTTC
ACTCGAACTTAACCTCATGTCCATTCTCACCATAGCCAGTGCAGTGCCTGGAGTTCGTGGGTGACGGG
ATCTATAACAACACCATGGGCCACGTGCACAGCCACTTGACGGGAGAGGTGTTTGGGGCTGCTCTGCCG
CAGGAGACGGAGTTTTTCCAACAGAACCAGACAGGTAACATCATGTCTCGGGTAACAGAGGACACGTCC
ACCCTGAGTGATTCTCTGAGTGAGAATCTGAGCTTATTCTGTGGTACCTGGTGCAGGCCTATGTCTC
TTGGGGATCATGCTCTGGGGATCAGTGTCCCTCACCATGGTACCCTGATCACCTGCCTCTGCTTTTC
CTTCTGCCAAGAAGGTGGGAAATGGTACCAGTTGCTGGAAGTGCAGGTGCGGGAATCTCTGGCAAAG
TCCAGCCAGGTGGCCATTGAGGCTCTGTCGGCCATGCCTACAGTTCGAAGCTTTGCCAACGAGGAGGGC
GAAGCCAGAAGTTTAGGAAAAGCTGCAAGAAATAAAGACACTCAACCAGAAGGAGGCTGTGCCCTAT
GCAGTCAACTCCTGGACCACTAGTATTTAGGTATGCTGCTGAAAGTGGGAATCTCTACATTGGTGGG
CAGCTGGTGACCACTGGGGCTGTAAAGCAGTGGGAACCTTGTACATTTGTTCTCTACCAGATGCAGTTC
ACCCAGGCTGTGGAGGACTGCTCTCCATCTACCCAGAGTACAGAAGGCTGTGGGCTCCTCAGAGAAA
ATATTTGAGTACCTGGACCGCACCCCTCGCTGCCACCCAGTGGTCTGTTGACTCCCTTACACTGGAG
GGCCTTGTCCAGTCCAAGATGTCTCCTTTGCCTACCCAAACCGCCAGATGTCTTAGTGCTACAGGGG
CTGACATTCACCCACGCCCTGGCGAGGTGACGGCGCTGGTGGGACCAATGGGTCTGGGAAGAGCACA
GTGGCTGCCCTGCTGCAGAACTGTACCAGCCACCGGGGACAGCTGCTGTTGGATGGGAAGCCCTT
CCCCAATATGACACCCGCTACCTGCACAGGCAGGTGGCTGCAGTGGGACAAGAGCCACAGGATTTTGA
AGAAGCTTCAAGAAAAATTGCCTATGGCTGACCCAGAAGCCAACTATGGAGGAAATCACAGCTGCT
GCAGTAAAGTCTGGGGCCATAGTTTCATCTCTGGACTCCCTCAGGGCTATGACACAGAGGTAGACGAG
GCTGGGAGCCAGCTGTCAGGGGTCAGCGACAGGCAGTGGCGTTGGCCCGAGCATTGATCCGAAACCG
TGTGTACTIONTATCCTGGATGATGCCACCACTGCCCTGGATGCAAACAGCCAGTTACAGGTGGAGCAGCTC
CTGTACGAAAGCCCTGAGCGGTACTIONTCTCAGTCTCTCATCACCCAGCACCTCAGCCTGGTGGAG
CAGGCTGACCACATCCTCTTTCTGGAAGGAGGCGCTATCCGGGAGGGGGAAACCACAGCAGCTCATG
GAGAAAAAGGGTCTACTGGGCCATGGTGCAGGCTCCTGCAGATGCTCCAGAA
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC
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Protein Sequence:

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

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MAIPFFTGRLTDWILQDGSADTFTRNLTLMSILTIASAVLEFVGDGIYNNMTMGHVHSHLQGEVFGAVLR
QETEFFQQNQGTGNIMSRVTEDTSTLSDSLSENLFLWYLVRLCLLGIMLWGSVSLTMVTLITLPLLF
LLPKKVGKWKYQLLEVVQVRESLAKSSQVAIEALSAMPTVRSFANEEGEAQKFREKLQEIKTLNQKEAVAY
AVNSWTTISGMLLKVGILYIGGQLVTSAGVSSGNLVTFVLYQMFTQAVEVLLSIYPRVQKAVGSSEK
IFEYLDRTPRCPPSGLLTPHLLEGLVQFDVSFAYPNRPDVLVLQGLTFTLRPGEVTALVGPNGSGKST
VAALLQNLQPTGGQLLLDGKPLPQYEHRYLHRQVAAVGQEPQVFGRSLQENIAYGLTQKPTMEEITAA
AVKSGAHSFISGLPQGYDTEVDEAGSQLSGGQRQAVALARALIRKPCVLILDDATSALDANSQLQVEQL
LYESPERYSRSLVITQHLSLVEQADHILFLEGGAIREGGTHQQLMEKKGCYWAMVQAPADAPE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

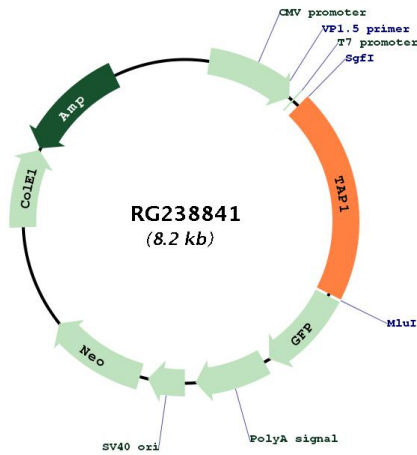
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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]