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Product datasheet for MR210132

Tap2 (NM_011530) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tap2 (NM_011530) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tap2
Synonyms:	ABC18; Abcb; Abcb3; AI462429; APT2; Ham; Ham-; Ham-2; Ham2; jas; MTP; MTP2; PS; PSF2; RING11; Tap; Tap-2; Y1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR210132 representing NM_011530
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTGTCCTACCTGAGGCCCTGGGTCTCTCTGCTGCTGGCGGACATGGCTTTACTTGGGTTGCTAC
AAGGATCTCTGGGAAATCTGCTTCCCCAGGGGCTGCCAGGACTCTGGATAGAGGGCACCCTGCGACTTGG
AGTGCTGTGGGGACTGCTAAAAGTGGGAGAGCTGCTGGGACTTGTGGGGACCCTTCTGCCCTTGCTCTGC
CTTGCCACTCCCCTGTTTTTCTCGCTAAGAGCTCTGGTGGGAGGCACCGCGAGCACCTCAGTAGTCCGAG
TGGCTTCTGCCTCTTGGGGCTGGCTGCTGGCTGGCTATGGGGCTGTTGCGCTGAGCTGGGCCGTGTGGGC
TGTGCTGAGCCCGGCTGGAGTCCAGGAGAAGGAACCAGGCCAGGAGAACAGAACACTGATGAAGCGGTTG
CTGAAGCTGTCCAGGCCGGACCTGCCTTTCCTCATAGCTGCCTTCTTCTTCCTTGTGGTGGCTGTGTGGG
GGGAGACATTAATCCCTCGCTATTCGGGTCGTGTAATTGACATCCTGGGAGGTGATTTCGACCCCGACGC
CTTTGCAAGCGCCATCTTTTTCATGTGCCTGTTCTCTGTTGGGAGCTCCTTCTCTGCAGGCTGTAGAGGA
GGCTCCTTCCTCTTCACCATGTCCAGGATCAACCTGCGGATACGAGAGCAGCTTTTCTCATCTTTGTTGC
GCCAAGACCTTGGATTCTTCCAGGAGACCAAGACAGGGGAGCTGAACTCGAGGCTGAGCTCTGACACCTC
TCTGATGAGCCGCTGGCTCCCTTTCAATGCCAATATCCTGCTGCGGAGCCTGGTGAAGGTGGTGGGGCTC
TACTTCTTCATGCTCCAGGTATCGCCCCGACTCACCTTCCTCTCCCTGCTGGACCTGCCCCTCACGATAG
CAGCTGAGAAGGTGTACAACCCCCGCCATCAGGCGGTGCTAAAGGAGATCCAGGATGCAGTGGCCAAGGC
GGGGCAGGTGGTGCGCGAGGCGGTAGGAGGGCTGCAGACTGTGCGAAGCTTTGGGGCCGAGGAGCAGGAA
GTCAGCCACTACAAGGAGGCCCTGGAGCGATGTAGACAGCTGTGGTGGCGCCGAGACCTGGAAAAAGACG
TGTATCTAGTCATACGGAGGGTGATGGCCTTGGGCATGCAGGTGCTGATTCTGAACTGCGGCGTGCAGCA
GATTCTGGCTGGAGAGGTCACCCGGGGTGGCCTGCTCTCCTTCCTGCTGTACCAGGAGGAAGTGGGACAA
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GGAATTCCAAGACGTCTCCTTTTCGTATCCCAGGCGCCCCGAGAAGCCTGTGCTCCAGGGTCTGACGTTC
ACCCTGCATCCTGGAACGGTGACAGCGTTGGTGGGACCCAATGGATCAGGGAAGAGCACCGTGGCCGCCC
TGCTGCAGAACCTGTACCAGCCCACTGGGGGCCAGCTGCTGCTGGATGGCGAGCCCCTGACCGAGTATGA
TCACCACTACCTGCACCGCCAGGTGGTTCTGGTGGGGCAGGAGCCTGTGCTGTTCTCGGGTTCTGTCAAG
GACAATATTGCCTATGGCCTGAGGGACTGTGAGGACGCTCAAGTGATGGCAGCTGCCCAGGCGGCCTGTG
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GAGGCTACCAGCGCCCTGGACGCCCAGTGTGAACAGGCCCTACAGAACTGGAGATCGCAGGGGGACAGGA
CGATGCTGGTGATTGCCCACAGGCTGCACACGGTTCAGAATGCTGACCAAGTTCTGGTGCTCAAGCAGGG
ACGTCTGGTGGAGCATGACCAGCTCAGGGACGGCCAGGATGTCTACGCCCACCTGGTACAGCAGCGGCTG
GAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210132 representing NM_011530
Red=Cloning site Green=Tags(s)

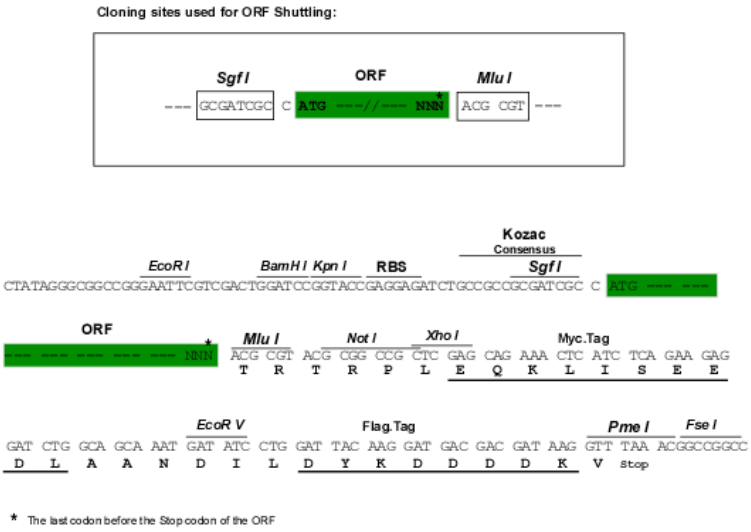
MALSYLRPWVSLLLADMALLGLLQGSLGNLLPQGLPGLWIEGTLRLGVLWGLLKVGELLGLVGTLLPLLC
LATPLFFSLRALVGGTASTSVVRVASASWGWLLAGYGAVALSWAVWAVLSPAGVQEKEPGQENRTLMKRL
LKLSRPDLPFLIAAFFFLVVAVWGETLIPRYSGRVIDILGGDFDPDAFASAIFFMCLFSVGSSFSAGCRG
GSFLFTMSRINLRIREQLFSSLLRQDLGFFQETKTGELNSRLSSDTSLMSRWLPFNANILLRSLVKVVGL
YFFMLQVSPRLTFLSLLDLPLTIAAEKVYNPRHQAVLKEIQDAVAKAGQVVREAVGGLQTVRSFGAEEQE
VSHYKEALERCRQLWWRRDLEKDVYLVIRRVMALGMQVLILNCGVQQILAGEVTRGGLLSFLLYQEEVGQ
YVRNLVYMYGDMLSNVGAAEKVFSYLDRKPNLPQPGILAPPWLEGRVEFQDVSFSYPRRPEKPVLQGLTF
TLHPGTVTALVGPNGSGKSTVAALLQNLYQPTGGQLLLDGEPLTEYDHHYLHRQVVLVGQEPVLFSGSVK
DNIAYGLRDCEDAQVMAAAQAACADDFIGEMTNGINTEIGEKGGQLAVGQKQRLAIARALVRNPRVLILD
EATSALDAQCEQALQNWRSQGDRTMLVIAHRLHTVQNADQVLVLKQGRLVEHDQLRDGQDVYAHLVQQRL
EA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011530

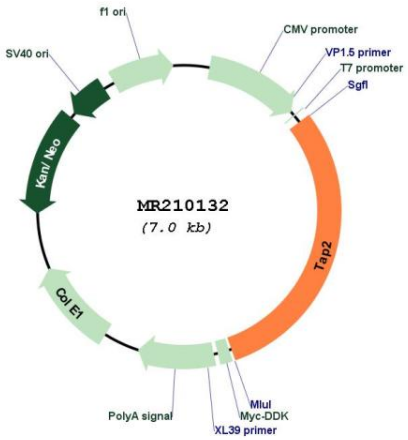
ORF Size: 2106 bp

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:	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_011530.3, NP_035660.3
RefSeq Size:	2490 bp
RefSeq ORF:	2109 bp
Locus ID:	21355
UniProt ID:	P36371
Cytogenetics:	17 17.98 cM
MW:	77.4 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 antigen presentation. This protein forms a heterodimer with Tap1 in order to transport peptides from the cytoplasm to the endoplasmic reticulum. Mutations in the human gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR210132