

Product datasheet for **MG219022**

Tapt1 (NM_173764) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tapt1 (NM_173764) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tapt1
Synonyms:	4932414K18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG219022 representing NM_173764
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGGCGTCTGCGACGCGGCCGCCCGGGAGAAGGCGGCGGTGGCGGCGCGGACGGCCCGAGCGGA
 CCGGCCGCGGCGAGGCGGAGCAGCCGGGTGGTGGCGGCCATGGGCCCGGCCCAACACACCGAGAGCGT
 GGGCTTCTACGAGAGCGACCGGGCGGGAGAAGCGCCGCGCCGCGCAGAACTGTCATTATTGAGGTTCT
 CTCAGTGTGAAGTACAGAGAGGTTACTTCTTGAACATAATGAAGCCAAGTATACAGAGCGAAGAGAAA
 GGGTGTACACTTGTATGCGAATACCAAGAGAATTGAAAAGCTCATGTTCTTTGGAATATTTTTGTGCCT
 CGATGCCTTTCTGTATGTGTTACCCTGCTTCTTTAAGAGTCTTTCTGGCGCTATTGAGGCTCCTCACT
 CTGCCTTGCTATGGCTTAAGGGACCGACGTCTGCTTCAGCCCGCACAGGTGTGTGACATTTGAAGGGCG
 TCATCTTGGTAATCTGCTATTTTCATGATGCACTATGTTGACTACTCCATGATGTACCACCTGATAAGAGG
 CCAGTCTGTCATCAAGCTCTATATCATCTACAACATGCTAGAGGTAGCTGATCGTCTGTTCTCCTCGTTT
 GGACAAGATATCTTAGATGCTCTCTACTGGACAGCCACAGAGCCGAAAGAAAGGAAAAGAGCACACATTG
 GAGTCATTCTCACTTCTTCATGGCTGTTCTCTATGTCTTTCTACATGCAATTCTTATCATGGTTCAAGC
 AACAACTCTCAATGTAGCTTTTAACTCTCAACAAGTCACTGCTTACTATCATGATGTCTAATAATTTT
 GTTGAAATTAAGGAAGTGTATTCAAGAAGTTGAAAAGAATAATCTCTTTCAGATGTCAAAATAGTGATA
 TTAAGGAGCGATTACAAATTACGTGCTTTTGTAAATAGTGTGCTTAAGAAACATGGAGCAGTTTTCTTG
 GAATCCAGATCATCTCTGGGTGTGTTTCTGACGTCTGTATGGTATTGCATCCGAAATGCTGTGGAT
 ATTGTAAGCATGCCTTTATCACAAATCAATGACATCACTGCAGATGTCTACAGTGAATATAGGCCA
 GCCTTGTCTTTGACCTTGTAGCAGCCGACAGAAAATGCATACACAGACTACAGTCACTGGTGGCAGC
 GAGGATGGGTTTATTCCTCTCCGCTAGCTGTCTTACTCATCAGAGTTGTAACAAGCTCAATTAAGTG
 CAAGGAATCCTGTCTACGCTGTGCATACTCTTCTATTTTGGTTGATCTCCTTGAAAATACTTAATA
 GCATTGTGCTGTTGGGAAAGTCTGTCAATACGTGAAGGAAGCCAAAATGGAAGAGAAGCTATTTAATCC
 TCCTCCAGCCAGCACACCCGAAAACCTCCAGCAAATCCAGAGCAAGGGCAAGCCCTCTCAAGGCCTT
 TCCACAGAAGAAAACCTGTCTGCCTCCGTACCAGCCAGCCTGGTATCAGAAAGAAAACGTACACCTT
 TACTCGTGACTAGCAATCTGATCAGTTCTGACAACCCAGATGGTATGAGAAGGACATAACACAGGA
 AAATTCTGAGTTAAGCACAGATCCTCAAAGAAAGACTTGTAGAAATAGACAGGTTACAATTTGCGGG
 AACCGGATTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG219022 representing NM_173764
 Red=Cloning site Green=Tags(s)

MAGVCDAAAPGEGGGGADGPRTGRGEAEQPGGGHGPAPQHTETLGFYESDRRREKRRGRAELSLRFL
 LSAELTRGYFLEHNEAKYTERRERVYTCMRIPRELEKLMFFGIFLCLDAFLYVFTLLPLRVFLALFRLLT
 LPCYGLDRRLQPAQVCDILKGVILVICYFMMHYVDYSMMYHLIRGQSVIKLYIYNMLEVADRLFSSF
 GQDILDALYWTATEPKERKRAHIGVIPHFFMAVLYVFLHAILIMVQATTLNVAFNHNKSLTIMMSNNF
 VEIKGSVFKKFEKNNLFQMSNSDIKERFTNYVLLLIVCLRNMEQFSWNPDLWVLPDVCMIASEIAVD
 IVKHAFITKFNDITADVSEYRASLAFDLVSSRQKNAYTDYSDSVARRMGFIPLPLAVLLIRVVTSSIKV
 QGILSYACVILFYFGLISLKILNSIVLLGKSCQYVKEAKMEEKLFNPPPASTPGKPSKSKGKPSQGL
 STEENLSASVTSQPGHQKENVIPLLVTSNSDQFLTPDGDEKIDITQENSELKHRSKDKLLEIDRFTICG
 NRID

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173764

ORF Size: 1692 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_173764.3](#), [NP_776125.2](#)

RefSeq Size: 3508 bp

RefSeq ORF: 1695 bp

Locus ID: 231225

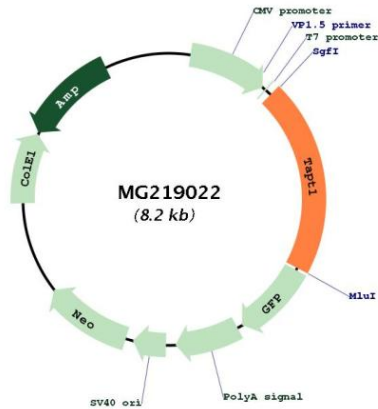
UniProt ID: [Q4VBD2](#)

Cytogenetics: 5 B3

Gene Summary:

Plays a role in primary cilia formation (By similarity). May act as a downstream effector of HOXC8 possibly by transducing or transmitting extracellular information required for axial skeletal patterning during development (By similarity). May be involved in cartilage and bone development (By similarity). May play a role in the differentiation of cranial neural crest cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG219022