

Product datasheet for **RC209710**

TAPT1 (NM_153365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAPT1 (NM_153365) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TAPT1
Synonyms:	CMVFR; OCLSBG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209710 representing NM_153365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGTCCGGCAGCGGGCCGCTCCGGGAGAAGGCGGGTGGCGCGTGGACGGCCCGCAGCGGG
 ACGGCCGCGGCGAGGCGGAGCAGCCGGGCGGCAGCGGGGACAGGGGCCCGCCGGCGCCTCAGCTCAC
 AGAGACGCTGGGCTTCTACGAGAGCGACCGGCGGGAGAGGCGCGGGCCGACAGAGCTTTCATTG
 TTGAGGTTCTCAGTGTGAACAAAGAGGGTACTTCCTTGAACATAATGAGGCCAAGTATACAGAAA
 GAAGAGAAAGAGTATACACTTGTTCGCAATACCAAGAGAATTGGAAAAGCTGATGGTTTTTGAATCTT
 TCTGTGCCTGGATGCGTTTTTGTATGTGTTACCCTGCTTCCTTAAGAGTTTTCTGGCACTATTCAGG
 CTCCTCACTTTGCCTTGCTATGGCTTAAGGGACAGACGTTTGCTTCAGCCTGCCAGGTGTGTGACATTT
 TGAAGGGTGCATTTTGGTAATCTGCTATTTTATGATGCACTATGTTGACTACTCCATGATGTACCCT
 GATAAGGGGGCAGTCCGTCATCAAGCTCTACATCATCTACAACATGCTGGAGGTAGCTGATCGTCTGTTT
 TCATCTTTTGGACAAGACATATTAGATGCTCTCTATTGGACAGCAACAGAGCCTAAAGAAAAGAAAAGAG
 CCCACATTGGGGTGATTCTCACTTTTTTTCATGGCTGTTCTCTATGTCTTTTTGCATGCAATCTTATAAT
 GTTTCAAGCAACAACCTCAATGTAGCTTTTAACTCACACAACAAGTCTTTGCTTACTATCATGATGTCT
 AATAATTTTGTGAAATTAAGGAAGTGTTCGAAAGTTTGAAGAACAATCTTTTCAAATGTCAA
 ATAGCGATTAAGGAACGATTCACAAATATGTGCTTTTACTGATAGTGTGCTAAGAAACATGGAACA
 GTTTTCTTGAATCCAGATCATCTCTGGGTGTTGTTCCAGATGTCTGTATGGTAATTGCATCAGAAAT
 GCCGTGGATATTGTAACATGCCTTTATTACTAAATCAATGACATTACTGCAGATGTCTACAGTGAAT
 ATAGAGCCAGTCTTGTCTTTGACCTTGTAGCAGCCGACAGAAAAATGCATACACTGATTACAGTGACTC
 TGTAGCACGGAGGATGGGCTTTATTCTCTCCCACTAGCTGTTTTACTCATCAGAGTTGTAACAAGCTCA
 ATTAAGTGAAGGAATCCTGTCTTATGCTGTGTCATACTCTTCTATTTTGGGTTGATATCCCTGAAAG
 TACTTAATAGCATCGTGTGTTGGGAAATCGTGCCAGTATGTGAAGGAAGCCAAAATGGAAGAGAAGCT
 GTCGAATCCTCCCGCAACCTGCACTCCAGGCAAGCCGTCAGTAAATCACAGAACAATGTAACCCTCT
 CAAGGCCTTTCCACAGAAGAAAACCTGTCTGCCTCCATCACCAACAACCTATTCATCAAAGGAAAATA
 TCATACCATTACTGTGACAAGCAATTCTGATCAGTTTTTACAACCTCCAGATGGTGACGAGAAGGACAT
 AACGCAGGACAATTCTGAATTAACACAGATCCTCAAAGAAAGATTTGTTAGAGATAGACAGGTTTACA
 ATTTGTGGAACCGAATTGAC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209710 representing NM_153365
 Red=Cloning site Green=Tags(s)

MAGVGDAAAPGEGGGGVDGPQRDGRGEAEQPGGSGGQGGPPAPQLTETLGFYESDRRRRERRRGRTELSL
 LRFLSAELTRGYFLEHNEAKYTERRRERYTCLRIPRELEKLMVFGIFLCLDAFLYVFTLLPLRVFLALFR
 LLTLPCYGLRDRRLQPAQVCDILKGVILVICYFMMHYVDYSMMYHLIRGQSVIKLYIYNMLEVADRLF
 SSFGQDILDALYWTATEPKERKRAHIGVIPHFFMAVLVYFLHAILIMVQATTLNVAFNHNSLLTIMMS
 NNFVEIKGSVFKKFEKNNLFQMSNSDIKERFTNYVLLLIVCLRNMEQFSWNPDLWVLPDVCMIASEI
 AVDIVKHAFITKFNDITADVYSEYRASLAFDLVSSRQKNAITDYSDSVARRMGFIPLPLAVLLIRVVTSS
 IKVQGILSYACVILFYFGLISLKVLSIVLLGKSCQYVKEAKMEEKLSNPPATCTPGKPSKSKQNKCKPS
 QGLSTEENLSASITKQPIHQKENIIPLLVTSNSDQFLTTPDGDEKDIQDENSELKHRSKDLLEIDRFT
 ICGNRID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN: NM_153365

ORF Size: 1701 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_153365.3](#)

RefSeq Size: 4610 bp

RefSeq ORF: 1704 bp

Locus ID: 202018

UniProt ID: [Q6NXT6](#)

Cytogenetics: 4p15.32

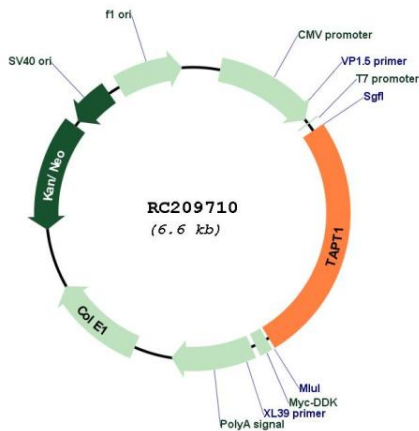
Domains: DUF747

Protein Families: Druggable Genome, Transmembrane

MW: 64.1 kDa

Gene Summary: This gene encodes a highly conserved protein that localizes to the centrosome and/or ciliary basal body. Mutations in this gene disrupt Golgi morphology and trafficking and normal primary cilium formation and these mutations are congenitally manifested by severe undermineralization of the intra-uterine skeleton. A mutation in the mouse ortholog of this gene results in homeotic, posterior-to-anterior transformations of the axial skeleton which are similar to the phenotype of mouse homeobox C8 gene mutants. In mouse, this gene is thought to function downstream of homeobox C8 to transduce extracellular patterning information during axial skeleton development. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC209710