

Product datasheet for **RG209710**

TAPT1 (NM_153365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAPT1 (NM_153365) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAPT1
Synonyms:	CMVFR; OCLSBG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209710 representing NM_153365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGTCGGCGACGCGGCCGCTCCGGGAGAAGGCGGCGGTGGCGCGTGGACGGCCCGCAGCGGG
 ACGGCCGCGGCGAGGCGGAGCAGCCGGGCGGCAGCGGCGACAGGGGCCCGCCGGCGCCTCAGCTCAC
 AGAGACGCTGGGCTTCTACGAGAGCGACCGGCGCGGAGAGGCGCCGGGCGCACAGAGCTTTTCATTG
 TTGAGGTTCTCAGTGTGAACAAAGAGGGTACTTCCTTGAACATAATGAGGCCAAGTATACAGAAA
 GAAGAGAAAGAGTATACACTTGTTCGCAATACCAAGAGAATTGGAAAAGCTGATGGTTTTTGAATCTT
 TCTGTGCCTGGATGCGTTTTTGTATGTGTTACCCCTGCTTCCTTAAAGAGTTTTCTGGCACTATTCAGG
 CTCCTCACTTTGCCTTGCTATGGCTTAAGGGACAGACGTTTGCTTCAGCCTGCCAGGTGTGTGACATTT
 TGAAGGGTGTCAATTTGGTAATCTGCTATTTTATGATGCACTATGTTGACTACTCCATGATGTACCCT
 GATAAGGGGGCAGTCCGTCATCAAGCTCTACATCATCTACAACATGCTGGAGGTAGCTGATCGTCTGTTT
 TCATCTTTTGGACAAGACATATTAGATGCTCTCTATTGGACAGCAACAGAGCCTAAAGAAAAGAAAAGAG
 CCCACATTGGGGTGATTCTCACTTTTTTTCATGGCTGTTCTCTATGTCTTTTTGCATGCAATCTTATAAT
 GTTTCAAGCAACAACCTCAATGTAGCTTTTAACTCACACAACAAGTCTTTGCTTACTATCATGATGTCT
 AATAATTTTGTGAAATTAAGGAAGTGTTTTCAAGAAGTTTGAAGAACAATCTTTTCAAATGTCAA
 ATAGCGATATAAGGAACGATTCACAAATTATGTGCTTTTACTGATAGTGTGCTAAGAAACATGGAACA
 GTTTTCTTGAATCCAGATCATCTCTGGGTGTTGTTTCCAGATGTCTGTATGGTAATTGCATCAGAAAT
 GCCGTGGATATTGTAACATGCCTTTATTACTAAATCAATGACATTACTGCAGATGTCTACAGTGAAT
 ATAGAGCCAGTCTTGTCTTTGACCTTGTAGCAGCCGACAGAAAAATGCATACACTGATTACAGTACTC
 TGTAGCACGGAGGATGGGCTTTTATTCTCTCCCCTAGCTGTTTTACTCATCAGAGTTGTAACAAGCTCA
 ATTAAGTGAAGGAATCCTGTCTTATGCTGTGTACTACTCTTCTATTTTGGGTTGATATCCCTGAAAG
 TACTTAATAGCATCGTGTGTTGGGAAATCGTGCCAGTATGTGAAGGAAGCCAAAATGGAAGAGAAGCT
 GTCGAATCCTCCCGCAACCTGCACTCCAGGCAAGCCGTCAGTAAATCACAGAACAATGTAACCCTCT
 CAAGGCCTTTCCACAGAAGAAAACCTGTCTGCCTCCATCACCAACAACCTATTCATCAAAGGAAAATA
 TCATACCATTACTGTGACAAGCAATTCTGATCAGTTTTTACAACCTCCAGATGGTGACGAGAAGGACAT
 AACGCAGGACAATTCTGAATTAACACAGATCCTCAAAGAAAGATTTGTTAGAGATAGACAGGTTTACA
 ATTTGTGGAACCGAATTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209710 representing NM_153365
 Red=Cloning site Green=Tags(s)

MAGVGDAAAPGEGGGGVDGPQRDGRGEAEQPGSGGQGPPAPQLTETLGFYESDRRRRRRRRTELSL
 LRFLSAELTRGYFLEHNEAKYTERRERVYTCRLIPRELEKLMVFGIFLCLDAFLYVFTLLPLRVFLALFR
 LLTLPCYGLRDRLLQPAQVCDILKGVILVICYFMMHYVDYSMMYHLIRGQSVIKLYIYNMLEVADRLF
 SSFGQDILDALYWTATEPKERKRAHIGVIPHFMAVLVYFLHAILIMVQATTLNVAFNHNKSLTIMMS
 NNFVEIKGSVFKKFEKNNLFQMSNSDIKERFTNYVLLIVCLRNMEQFSWNPDLHWLFPDVCMIASEI
 AVDIVKHAFITKFNITADVYSEYRASLAFDLVSSRQKNAYTDYSDSVARRMGFIPLPLAVLLIRVVTSS
 IKVQGILSYACVILFYFLISLKVLSIVLLGKSCQYVKEAKMEEKLSNPPATCTPGKPSKSKQNKCKPS
 QGLSTEENLSASITKQPIHQKENIIPLLVTSNSDQFLTPDGDEKIDITQDNSELKHRSSKDLLEIDRFT
 ICGNRID

TRTRPLE - GFP Tag - V

Restriction Sites:

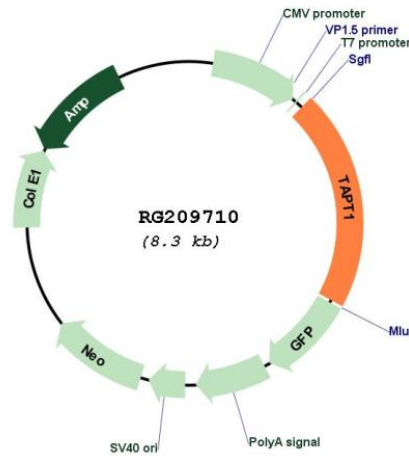
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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

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]