

Product datasheet for **RG208172**

CATIP (NM_198559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CATIP (NM_198559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CATIP
Synonyms:	C2orf62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208172 representing NM_198559 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTCCAAGGTTTACTCCACAGGCTCCAGAGCTAAGGACCACCAGCCCTCGGGTCCGGAGTGTCTGC
CACTCCCAGAGGCCAATGCTGAAGCCATCGACTTCCTCAGCTCCCTCCACAAGGAGGAGCTACAGATGCT
GTTCTTCTCTGAGACGCTGGCCATGGTCTCAGACACCGGGGAGCCTCAGGGAGAGCTGACCATTGAGGTG
CAGAGAGGAAATACCAGGAAAACTCGGCATGCTGACATACTGCCTCTTCGTGCATGCCTCTAGCCGAG
GCTTCTTGACAAAATGCTCTGCGGAAATCCCTCCTGGGCTATCTCTCAGAGAAGCTGGAGCTCATGGA
ACAGCACAGCCAAGACTTCATCAAGTTCCTCATCTCCCATGGAACGGAAGATGAGTTTGCTGAAGCAG
GATGATCAGCTGGCTGTGACCAGAAGTATCAAGGAGGGTGAAGTGAAGACTGGAGTGACTTCTTTCC
CCTGGAGCTCAATCAAGGGCTTCATCTCAGAGGCTGCCAACCTGGTGTGCTCAGGGTATGGCCTGGCG
GCGGATGGTGCCAGCAATGCCCGCTTCTGACCTTGACACCGAGGGCAAACCTGCTATTTGACCTAT
CAAAACCTGGGCTTCCAGACCATCCAGGTAGACCATCAGCAGGCTGAAGTCTTATCGTGGAGCAGACTG
TCCACGCGGAGGAGGGCATCCCCATGTCTGCCAGTACTACCTGCTCTCCGATGGCACCTGGCCAAAGAG
AATACAGGTGGGCTCCCCAGGGTGTGCATCATCAACCAAGATGCCTATCTTGAGGGAAGAGGATGAGATT
GAGCCACGCCAGTGTGTTGAGAAGAAGCCCTGGTATGGGAGGAGGATATGGAGCTTATTCGAAGTTCC
TGGACCGGAAGGAGGAGCTCCGGCTCGGCCACGCCAGCTATCTGCGGCAGCACCCCGAAGCCACGCGCT
CATCTCCGACTTCTGCTCTTCTGCTGTGCGCCAGCCGGAGGACGTGGTACCTTCGCCGCCAGTTC
TTCGCCCCCTTCGACCCGTGGCGTCCGTCGTACCGGCCCTTGGGCTCTCCACCGGCCAACCCCTTTC
GCTCCCTGGAGCCGGAGGAGACGCCCGCTCGGGGCGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208172 representing NM_198559
Red=Cloning site Green=Tags(s)

MSSKVYSTGSRAKDHQPSGPECLPLPEANAEAIDFLSSLHKEELQMLFFSETLAMVSDTGEPQGELTIEV
 QRGKYQEKLGMITYCLFVHASSRGLDKMLCGNSLLGYLSEKLELMEQHSQDFIKFLILPMERKMSLLKQ
 DDQLAVTRSIKEGEEVKGTVSFPWSSIKGFISEAANLVLLRVMWRMMVPSNARFLTLDTEGKLCYLY
 QNLGFQTIQVDHQAEVIVEQTVHAEEGIPMSCQYYLLSDGHLAKRIQVGSPPGCCIIITKMPILREEDEI
 EPRPVFEKKPLVWEEDMELYSKFLDRKEELRLGHASYLRQHPEAHALISDFLLFLLLRQPEDVVTFAAEF
 FGPFPWRPSSPALGSSHRPNPFRSLEPEGDARSGAA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198559

ORF Size: 1161 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_198559.1](#), [NP_940961.1](#)

RefSeq Size: 1414 bp

RefSeq ORF: 1164 bp

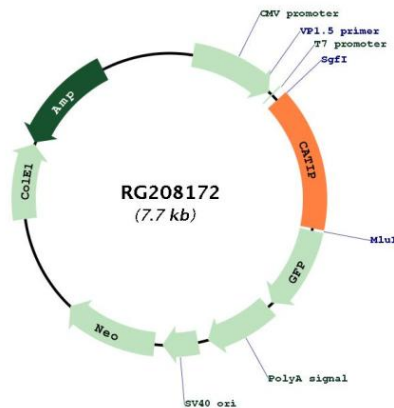
Locus ID: 375307

UniProt ID: [Q7Z7H3](#)

Cytogenetics: 2q35

Gene Summary: Plays a role in primary ciliogenesis by modulating actin polymerization.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG208172