

## Product datasheet for **RG207290**

### TTC30A (NM\_152275) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TTC30A (NM_152275) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TTC30A
Synonyms:	FAP259; IFT70A; TTC30B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>RG207290 representing NM\_152275  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGGCTGGTCTGAGCGGCGCGCAGATCCCCGACGGGGAGTTTACCGCGCTAGTGTACCGGCTCATCCGCG  
ATGCCCGCTACGCCGAGGCGGTGACAGTCTGGGCCGAGAACTGCAGCGAGCCCCAGGAGCCGTGCCGG  
CCTGTCGCTGCTAGGCTACTGCTACTACCGCTGCAGGAGTTCGCGCTGGCGGCCGAGTGTATGAGCAG  
CTGGGCCAGTGCACCCGGAAGTGGAGCAGTACCGCTGTACCAGGCCAGGCCCTGTACAAGGCCTGCC  
TTTATCCGGAGGCCACTCGGGTCGCTTCTTCTCTGGATAACCCCGCTACCACAGCCGGGTCTCCG  
CCTGCAAGCTGCCATCAAGTATAGCGAGGGCGATCTGCCAGGGTCCAGGAGCCTGGTGGAGCAGTGTG  
AGTGGGGAAGGGGAGAAGAAAGTGGAGGCGACAATGAGACCGATGGCCAGGTCAACCTGGGTTGTTTGC  
TCTACAAGGAGGGACAGTATGAAGCTGCATGCTCCAAGTTTTCTGCCACACTGCAGGCCTCGGGCTACCA  
GCCTGACCTTTCACAACCTGGCTTTGGCCTATTACAGCAGCCGACAGTATGCCTCAGCACTGAAGCAT  
ATCGCTGAGATTATTGAGCGTGGCATCCGCCAGCATCCTGAGCTAGGTGTGGGCATGACCACCGAGGGCT  
TTGATGTTGCGAGTGTGGCAACACCTTAGTTCTCCATCAGACTGCTCTGGTGGAAAGCCTTCAACCTTAA  
GGCAGCCATAGAATACCAACTGAGAAACTATGAGGTAGCTCAAGAAACCTCACCGACATGCCACCCAGG  
GCAGAGGAAGAGTTGGACCCTGTGACCCTGCACAACAGGCACTAATGAACATGGATGCCAGGCCTACAG  
AAGGGTTTGAAAAGCTACAGTTTTTGTCCAAACAGAATCCCTTCTCCAGAGACTTTTGGCAACCTGTT  
GCTGCTCTACTGTAATATGAGTATTTGACCTGGCAGCAGATGTCTGGCAGAAAATGCCATTTGACG  
TATAAGTTCCTCACACCCTATCTCTATGACTTCTTAGATGCCCTGATCACTTCCAGACAGCTCCTGAAG  
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TCTGTTTATGCAGGAAAACAAATACAAAGAAGCCATTGGTTTCTATGAACCCATAGTCAAGAAGCATTAT  
GATAACATCCTGAATGTCAGTGTATTGTACTGGCTAATCTCTGTGTTTCTATATTATGACAAGTCAAA  
ATGAAGAAGCAGAGGAGTTGATGAGGAAGATTGAAAAGGAGGAAGAGCAGCTCTTATGATGACCCAAA  
TAGGAAAATGTACCATCTCTGCATTGTGAATTTGGTATAGGAACTCTTATTGTGCCAAAGGAAACTAT  
GAGTTTGGTATTTCTCGAGTTATCAAAAGCTTGGAGCCTTATAATAAAAGGCTGGGAACAGATACCTGGT  
ATTATGCCAAAAGATGCTTCTGTCTTGTAGAAAACATGTCAAAACACATGATAGTCATTCATGACAG  
TGTTATCAAGAATGTGTCCAGTTTTTAGGACACTGTGAACCTTATGGCACAACATACCTGCTGTATT  
GAACAACCCCTCGAAGAAGAAAGATGCATGTTGGGAAGAATACAGTCACAGATGAGTCCAGACAATTGA  
AAGCTTTGATTTATGAGATTATAGGATGGAATAAG

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG207290 representing NM\_152275  
Red=Cloning site Green=Tags(s)

```
MAGLSGAQIPDGEFTALVYRLIRDARYAEAVQLLGRELQRSPRSRAGLSLLGYCYRRLQEFALAAECYEQ
LGQLHPELEQYRLYQAQALYKACLYPEATRVAFLLLDNPAYHSRVLRLQAAIKYSEGDLPGSRSLVEQLL
SGEGGEESGGDNETDGGVNLGCLLYKEGQYEAACSKFSATLQASGYQPDLSYNLALAYSSRQYASALKH
IAEIIERGIHQPELGVGMTTEGFVRSVGNLVLHQTALVEAFNLKAAIEYQLRNYEVAQETLTDMPPR
AEEELDPVTLHNQALMNMDARPTEGFELKQFLLQQNPFPPETFGNLLLLYCKYEYFDLAADVLAENAHLT
YKFLTPYLYDFLDALITCQTAPEEAFIKLDGLAGMLTEQLRRLTKQVQEARHNRDDEAIKKAVNEYDETM
EKYIPVMAQAKIYWNLENYPMVEKIFRKSVEFCNDHDVWKLNVAVHVMQENKYKEAIGFYEPIVKKHY
DNILNVSIAIVLANLCSVYIMTSQNEEAELMRKIEKEEEEQLSYDDPNRKMVHLCIYNLVIIGTLCAKAGNY
EFGISRVIKSLEPYNKRLGTDWYAKRCFLSLENMSKHMIVIHDSVIQECVQFLGHCELYGTNIPAVI
EQPLEEERMHVGNKNTVTDESRQLKALIYEIIGWNK
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_152275

**ORF Size:** 1995 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\\_152275.2](#), [NP\\_689488.2](#)

**RefSeq Size:** 4685 bp

**RefSeq ORF:** 1998 bp

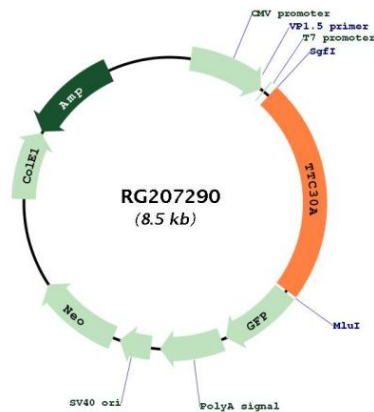
**Locus ID:** 92104

**UniProt ID:** [Q86WT1](#)

**Cytogenetics:** 2q31.2

**Gene Summary:** Required for polyglutamylation of axonemal tubulin. Plays a role in anterograde intraflagellar transport (IFT), the process by which cilia precursors are transported from the base of the cilium to the site of their incorporation at the tip.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG207290