

Product datasheet for **RG218950**

TTC26 (NM_024926) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTC26
Synonyms:	dyf-13; DYF13; IFT56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218950 representing NM_024926
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATGCTTTCAAGGGCCAAACCTGCTGTAGGCAGAGGCGTACAGCACACTGACAAAAGAAAGAAGAAAG
 GTAGGAAGATTCCAAACTAGAGGAGCTACTTTCAAAAAGAGATTTCACTGGAGCTATTACCTGTTGGA
 GTTCAAACGTCATGTTGGGGAAGAAGAAGAGGATACTAATTTGTGGATTGGATATTGTGCCTTTACCTG
 GGTGACTACAAGAGAGCTCTGGAGGAATACGAAATGCTACAAAAGAGGAAAATTGTAATCTGAAGTCT
 GGGTGAACCTAGCTTGCACCTACTTCTTTCTTGGGATGTATAACAAGCTGAAGCAGCTGGATTTAAAGC
 TTCAAAAAGCCGACTCCAAAACCGCCTCCTTCCACTTGGCTCACAAGTTAATGATGAGAAAAAATTG
 ATGAGCTTTTCATCAAAATCTTCAGGATGTCACAGAAGATCAACTCAGTTTGGCCTCAATCCACTATATGC
 GATCTCACTACCAAGAAGCTATAGATATATATAAGCGAATACTGCTAGATAACAGGGAATACCTGCCCT
 TAATGTTTATGTGGCCCTCTGCTACTACAAGTTGGATTACTATGATGTCTCAAGAAGTTTGGCTGTT
 TACCTTCAGCAAATTCCTGATAGTACCATCGCACTCAATCTTAAAGCCTGTAACCATTTTCGCCTTTACA
 ATGGCAGAGCAGCTGAGGCAGAACTCAAAAGCTTGATGGACAATGCTTCTTCATCCTTTGAATTTGCTAA
 AGAAGCTCATCAGGCACAATCTGGTTGTTTTCCGAGGAGGTGAAGGGGCTTTCAGGTTTTACCTCCCCTA
 GTTGATGTCATTCTGAAGCTAGGCTAACTTGGTGATTACTACCTTCGTCAAGATGATGTACAAGAAG
 CTTATAACTTAATTAAGGATCTGGAACCTACTACTCCTCAGGAGTATATTCTCAAAGGAGTGGTCAATGC
 AGCCCTTGGCCAGGAAATGGGTTCAAGGGATCATATGAAAATTGCCAGCAGTCTTCCAGTTGGTGGGA
 GGATCAGCTAGTGAATGTGATACAATACCAGGGAGGAGTGCATGGCTTCTGTTTCTTCTGCTTAAGC
 AATTTGATGATGTTTTGATTTACCTCACTCATTAAAGAGTTACTTCTATAATGATGACATCTTAACTT
 TAATTATGCCCAAGCCAAAGCTGCAACAGGCAATACCAGTGAGGGCGAAGAGGCGTTCTCTTGATCCAA
 AGTGAGAAGATGAAAAATGATTACATTTACCTCAGCTGGTTAGCTCGGTGCTATATTATGAATAAGAAAC
 CAAGACTAGCCTGGGAACCTTATCTTAAGATGGAACCTCCGGCGAGTCTTCAGTCTCTTACAGCTCAT
 TGCTAATGACTGCTACAAGATGGCCAGTTTACTATTCTGCCAAAGCTTTTGATGTCCTTGAGAGGCTG
 GATCCTTAACCTGAATATTGGGAAGGCAACCGGGTGCCTGTGTGGGCATTTTCCAGATGATCATAGCTG
 GGAGAGAACCCTAAAGAGACCTTCGAGAAGTGCTCCATTTACTGAGAAGCACAGGTAACACCCAAGTAGA
 ATACATGATCCGGATCATGAAGAAATGGGCCAAAGAAACAGAGTGTCCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

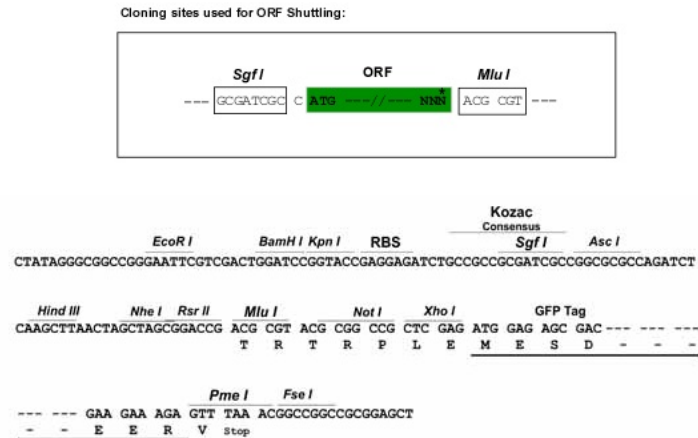
Protein Sequence: >RG218950 representing NM_024926
 Red=Cloning site Green=Tags(s)

MMLSRAPVGRGVQHTDKRKKKGRKIPKLEELL SKRDFTGAITLLEFKRHVGEEEDTNLWIGYCAFHL
 GDYKRALEEYENATKEENCNSEVWVNLACTYFFLGMKYQAEAGFKASKSRLQNRLLFHLAHKFNDEKKL
 MSFHQNLQDVTEDQLSLASIHMYMRSHYQEAIDYKRILLDNREYLALNVYVALCYKLDYDVSQEVLA
 YLQQIPDSTIALNLKACNHFRLYNGRAAEELKSLMDNASSFEFAKELIRHNLVFRGGEGALQVLPPL
 VDVIPPEARLNLVIYYLRQDDVQEAAYNLKIDLEPTTPQYIILKGVVNAALQEMGSRDHMKIAQQFFQLVG
 GSASECDTIPGRQCMASCFLLKQFDDVLIYLSNFSKSYFYNDIFNFNYAQAATGNTSEGEEAFLLIQ
 SEKMKNDYIYLSWLARCYIMNKKPRLAWELYLKMETSGESFLLQLIANDCYKMGQFYSSAKAFDVLRL
 DPNPEYWEKGKRGACVGFQMIAGREPKETLREVLHLLRSTGNTQVEYIMIRIMKKWAKENRVSI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024926

ORF Size: 1662 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024926.4](#)

RefSeq Size: 2113 bp

RefSeq ORF: 1665 bp

Locus ID: 79989

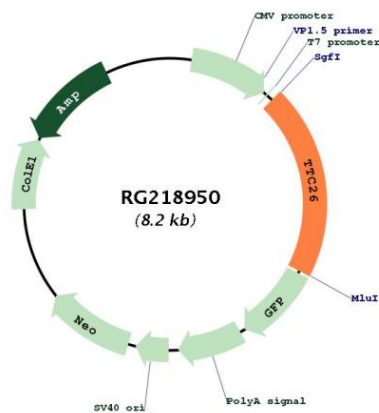
UniProt ID: [A0AVF1](#)

Cytogenetics: 7q34

Domains: TPR

Gene Summary: Component of the intraflagellar transport (IFT) complex B required for transport of proteins in the motile cilium. Required for transport of specific ciliary cargo proteins related to motility, while it is neither required for IFT complex B assembly or motion nor for cilium assembly. Required for efficient coupling between the accumulation of GLI2 and GLI3 at the ciliary tips and their dissociation from the negative regulator SUFU. Plays a key role in maintaining the integrity of the IFT complex B and the proper ciliary localization of the IFT complex B components. Not required for IFT complex A ciliary localization or function. Essential for maintaining proper microtubule organization within the ciliary axoneme.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG218950