

## Product datasheet for **RC205266**

### **TTC10 (IFT88) (NM\_175605) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TTC10 (IFT88) (NM_175605) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TTC10
Synonyms:	D13S1056E; DAF19; hTg737; TG737; TTC10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC205266 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAATTCACAAACACTAAGGTACAAATGATGCAAAATGTGCACCTGGCTCCAGAGACAGATGAAGATG  
 ATCTTTATTCGGCTATAATGACTACAATCCAATCTATGATATCGAGGAATTGGAGAATGATGCAGCTTT  
 TCAGCAAGCTGTGAGGACTAGTCATGGCAGAAAGACCTCCAATAACTGCTAAAATATCAAGCACGGCAGTT  
 ACTAGACCTATAGCTACTGGATATGGGTCCAAGACATCTCTGGCATCATCAATAGGAAGACCAATGACAG  
 GGGCTATTGAGGATGGAGTTACTAGACCCATGACAGCAGTGAGAGCAGCTGGTTTTACCAAAGCAGCTTT  
 GAGAGGCTCTGCATTTGACCCCTTAGTCAGTCAAGGGGCCCTGCTTCCCTTTGGAAGCCAAGAAAAA  
 GATAGCCAGAGGAAAAAATAAGCAATTAGAGAAGGAAGTAAATGAGTTGGTAGAAGAAAGCTGTATTG  
 CCAATAGTTGTGGAGACTTAAAAATGGCCTTAGAAAAGGCAAAAGATGCAGGAAGAAAAGAGAGAGTCT  
 GGTGAGACAGCGAGAACAAGTTACAACCTCAGAAAATATCAATTTGGACTTAACTTACTCAGTTCTTTTC  
 AATTTGGCCAGTCAGTATTCAGTTAATGAAATGTATGCCGAAGCACTTAACTTATCAAGTTATAGTCA  
 AAAATAAGATGTTTAGCAATGCAGGAATATTGAAAATGAATATGGGAAATATCTATTTAAAGCAAAGAAA  
 TTATTCCAAAGCCATTAATTCTACCGAATGGCATTAGACCAAGTTCCAAGTGTCAATAAGCAAATGAGG  
 ATTAATAAATGCAGAATATTGGAGTTACATTTATTCAGGCTGGTCAGTATTCAGATGCTATTAATTCAT  
 ATGAGCACATAATGAGCATGGCACCAAACTCTGAAGGCAGGCTACAACCTAACTATCTGTTATTTTGTCT  
 TGGAGACCGAGAAAAAATGAAGGAGGCATTCCAAAAATGATTACTGTTCCATTAGAAAATGATGAAGAT  
 AAATATATTTACCAAGTGATGATCCTCATACTAACTTAGTAAGTGAAGCTATAAAAAATGATCACCTCA  
 GGCAAAATGGAACGTGAAAGGAAAGCCATAGCAGAAAAAATGTTATGACATCTGCAAAAATCATTGCTCC  
 TGTAAATGAAACATCTTTTGTGTCAGGTTATGATTGGTGGTGGAAAGTGGTGAAGCTTCTCAATATGTA  
 GAGCTAGCCAATGATCTGGAATAAACAAGCAGTTACATACTTGAGACAAAAAGACTATAACCAAGCTG  
 TAGAGATCTTAAAGTGTGGAAAAAAGGACAGTAGAGTGAAAAGTGCAGCTGCAACCAATCTCTCAGC  
 CCTGTATTATATGGGAAAGGATTTGCACAAGCCAGCAGCTATGCAGATATAGCTGTGAACCTCTGATAGA  
 TATAATCCAGCAGCTCTTACTAATAAAGGAATACAGTTTTTGCAAATGGTGATTATGAGAAGGCCGCTG  
 AATTCTATAAAGAGGCTCTAAGAAATGATTCTTCTTGTACTGAAGCACTTATAATTTGGCCTTACCTA  
 TGAAAACTAAATCGGCTAGATGAGGCTTTGGACTGTTTCTGAACTTCACGCAATCTACGAAACAGT  
 GCCGAAGTTCTTACCAGATAGCAAATATATGAATTAATGGAAAATCCAGTCAAGCTATTGAATGGC  
 TAATGCAGGTGGTCAGTGTATTCCAACCGATCCTCAAGTTTTATCTAAGCTAGGAGAATTATATGATCG  
 TGGAGGAGATAAATCTCAAGCATTTCAATATTACTATGAGTCATATAGGTATTTTCTTGTAAATATTGAA  
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 GAGCTTCTTTATACAGCCTACACAAGTGAATGGCAGCTGATGGTAGCTAGTTGTTTTCAGAAGAAGTGG  
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 CGTTTCTTAGTTTCGTCTCTGCACAGATCTTGGATTAAGATGCTCAAGAATATGCCAGAAAATGAAAG  
 GGTTGGAAAAAATGAAAGAAATAAGGGAACAGCGCATAAAGTCAAGCAGAGATGGCAGTGGGGCTCCCG  
 TGGCAAAAGAGAAGGAAGTGTAGCGGTGATAGTGGCCAGAATAAGTCCAGTAAAGGTGAACGA  
 CTAAGTGGCAGACTCAGAGCTTTACCTGGGACAAATGAACCTTATGAAAGTAGCAGTAACAAAGAAATAG  
 ATGCCTCTATGTGGACCACTTGGCCCTCAAATAGAACGACCAAAAATGCAGCCAAGAAAAGGATCGA  
 TGAGGATGATTTTGTGATGAAGAATTAGGAGATGATTTGCTTCCAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC205266 protein sequence  
Red=Cloning site Green=Tags(s)

MKFTNTKVQMMQNVHLAPETDEDDL YSGYNDYNPIYDIEELENDAAFQQAVRTSHGRRPPITAKISSTAV  
TRPIATGYGSKTSLASSIGRPMTGAIQDGVTRPMTAVRAAGFTKAALRGSADFPLSQRGPASPLEAKKK  
DSPEEKIKQLEKEVNELVEESCIANSCGDLKLALEKAKDAGRKERVLRQREQVTPENINLDLTVSVLF  
NLASQYSVNEMYAEALNTYQVIVKNKMF SNAGILKMMNGNIYLKQRNYSKAIKFYRMALDQVPSVKNQMR  
IKIMQNIQVTFIQAGQYSDAINS YEHIMSMAPNLKAGYNLTICYFAIGDREKMEAFQKLIITVPLEIDED  
KYISPDPTNLVTEAIKNDHLRQMERERKAI AEKYVMTSAKLIAPVIETSFAAGYDWCVEVVKASQYV  
ELANDLEINKAVTYLRQKDYNAVEILKVLEKKDSRVKSAATNLSALYYMGKDF AQASSYADI AVNSDR  
YNPAALTNKGNTVFANGDYKAAEFYKEALRNDSSCTEALYNI GLTYEKLNR LDEALDCFLKHLAILRNS  
AEVLYQIANIYELMENPSQAI EWLMQVVS VIPTDPQVLSKLGEL YDRGGDKSQAFQY YYESYRYFPCNIE  
VIEWLGAYYIDTQFWEKAIQYFERASLIQPTQVKWQLMVASC FRRSGNYQKALD TYKDTHRKFPENVECL  
RFLVRLCTDLGLKDAQEYARKLRLEKMK EIREQRIKSGRDGSGGSRGKREGSASGDSGQNY SASSKGER  
LSARLRALPGTNEPYESSNKEIDASYVDPLGPQIERPKTAAKKRIDEDDFADEELGDDLLPE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6039\\_f12.zip](https://cdn.origene.com/chromatograms/mk6039_f12.zip)

**Restriction Sites:** Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_175605

ORF Size: 2499 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\\_175605.5](#)

**RefSeq Size:** 3171 bp

**RefSeq ORF:** 2502 bp

**Locus ID:** 8100

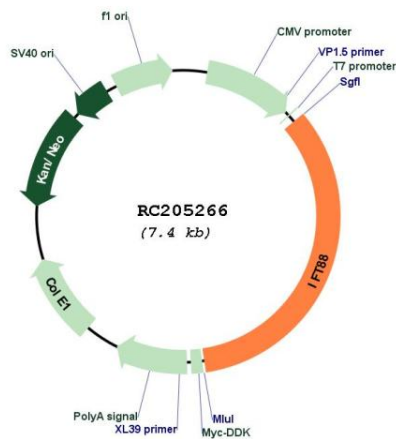
**UniProt ID:** [Q13099](#)

**Cytogenetics:** 13q12.11

**MW:** 94.2 kDa

**Gene Summary:** This gene encodes a member of the tetratrico peptide repeat (TPR) family. The encoded protein is involved in cilium biogenesis. Mutations of a similar gene in mouse can cause polycystic kidney disease. Several transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2017]

## Product images:



Circular map for RC205266