

Product datasheet for **RC214282**

TTC10 (IFT88) (NM_006531) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TTC10 (IFT88) (NM_006531) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IFT88
Synonyms:	D13S1056E; DAF19; hTg737; TG737; TTC10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC214282 representing NM_006531
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGATGCAAAATGTGCACCTGGCTCCAGAGACAGATGAAGATGATCTTTATTCGGCTATAATGACTACA
ATCCAATCTATGATATCGAGGAATTGGAGAATGATGCAGCTTTTCAGCAAGCTGTGAGGACTAGTCATGG
CAGAAGACCTCCAATAACTGCTAAAATATCAAGCACGGCAGTTACTAGACCTATAGCTACTGGATATGGG
TCCAAGACATCTCTGGCATCATCAATAGGAAGACCAATGACAGGGGCTATTCAGGATGGAGTTACTAGAC
CCATGACAGCAGTGAGAGCAGCTGGTTTTACAAAGCAGCTTTGAGAGGCTCTGCATTTGACCCCTTAG
TCAGTCAAGGGGCCCTGCTTCCCCTTTGGAAGCCAAGAAAAAGATAGCCAGAGGAAAAATAAGCAA
TTAGAGAAGGAAGTAAATGAGTTGGTAGAAGAAAGCTGTATTGCCAATAGTTGTGGAGACTTAAATTTGG
CCTTAGAAAAGGCAAAAGATGCAGGAAGAAAAGAGAGAGTCTGGTGAGACAGCGAGAACAAGTTACAAC
TCCAGAAAATATCAATTTGGATTTAACTTACTCAGTTCTTTTCAATTTGGCCAGTCAGTATTCAGTTAAT
GAAATGTATGCCGAAGCACTTAACACTTATCAAGTTATAGTCAAAAAAAGATGTTTAGCAATGCAGGAA
TATTGAAAATGAATATGGGAAAATATCTATTTAAAGCAAAGAAAATTATCCAAAGCCATTAATTTCTACCG
AATGGCATTAGACCAAGTTCCAAGTGTCAATAAGCAAAATGAGGATTAATAATGCAGAATATTGGAGTT
ACATTTATTCAGGCTGGTCAGTATTCAGATGCTATTAATTCATATGAGCATAATGAGCATGGCACCAA
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ATTCAAAAATGATTACTGTTCCATTAGAAAATGATGAAGATAAATATATTTCCACCAAGTGATGATCCT
CATACTAACTTAGTAAGTGAAGCTATAAAAAATGATCACCTCAGGCAAAATGGAACGTGAAAGGAAAGCCA
TGGCAGAAAAATATATTATGACATCTGCAAAACTCATTGCTCTGTAATTGAAACATCTTTTGTCTGCAGG
TTATGATTGGTGGTGGGAGTGGTGAAGCTTCTCAATATGTAGAGCTAGCCAATGATCTGGAAAATAAAC
AAAGCAGTTACATACTTGAGACAAAAAGACTATAACCAAGCTGTAGAGATCTTAAAAGTGTGGAAAAAA
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GGGAATACAGTTTTTGCAAATGGTGATTATGAGAAGGCCGCTGAATTTCTATAAAGAGGCTCTAAGAAATG
ATTCTTCTGTACTGAAGCACTTATAATATTGGCCTTACCTATGAGAACTAAATCGGCTAGATGAGGC
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CTCAAAATAGAACGACCAAAAAGTGCAGCCAAGAAAAGGATCGATGAGGATGATTTTGTCTGATGAAGAAT
AGGAGATGATTTGCTTCCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAAATCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214282 representing NM_006531
Red=Cloning site Green=Tags(s)

MMQNVHLAPETDEDDL YSGYNDYNPIYDIEELENDAAFQQAVRTSHGRRPPITAKISSTAVTRPIATGYG
SKTSLASSIGRPMTGAIQDGVTRPMTAVRAAGFKAALRGSADFPLSQRGPASPLEAKKKDSPEEKIKQ
LEKEVNELV EESC IANSCGDLKLALEKAKDAGRKERVLRQREQVTTPENINLDLTYSVLFNLSQYSVN
EMYAEALNTYQVI VKNKMF SNAGILKMNMGNIY LKQRNYSKAIKFYRMALDQVPSV NKQMR I KIMQNI G V
TFIQAGQYSDAINSYEHIMSMAPNLKAGYNLTICYFAIGDREKMKKAFQKLITVPLEIDEDKYISPSDDP
HTNLVTEAIKNDHLRQMERERKAMAKEYIMTSAKLIAPVIETSFAAGYDWCVEVVKASQYVELANDLEIN
KAVTYLRQKDYNQAVEILKVLEKKDSRVKSAAATNLSALYYMGKDF AQASSYADIAVNSDRYNPAALTNK
GNTV FANGDY EKA AEFYKEALRNDSSCTEALYNI GLTYEKLNR LDEALDCFLKLHAILRNSAEVLYQIAN
IYELMENPSQAI EWLMQVVSVIP TDPQVLSKLGELYDREGDKSQAFQY YYESYRYFPCNIEVIEWLGAYY
IDTQFWEKAIQYFERASLIQPTQVKWQLMVASCFRRSGNYQKALD TYK DTHRKF PENVECLRFLVRLCTD
LGLKDAQEYARKLKRLEKMK EIREQRIKSGRDGSGGSRGKREGSASGDSGQNY SASSKGERLSARLRALP
GTNEPYESSNKEIDASYVDPLGPQIERPKTAAKKRIDEEDFADEELGDDLLPE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

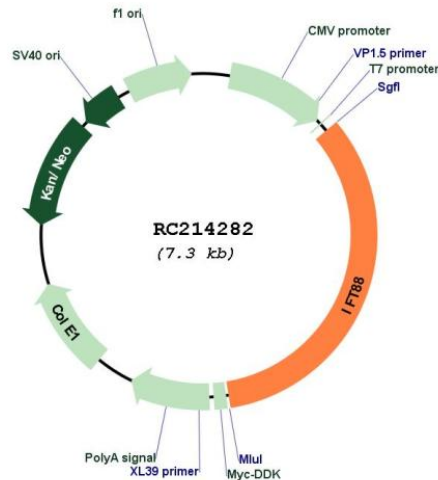
Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_006531

ORF Size: 2472 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_006531.5](#)

RefSeq Size: 2872 bp

RefSeq ORF: 2475 bp

Locus ID: 8100

UniProt ID: [Q13099](#)

Cytogenetics: 13q12.11

Domains: TPR

MW: 93 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]