

## Product datasheet for **SC109922**

### **TTC10 (IFT88) (NM\_006531) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TTC10 (IFT88) (NM_006531) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTC10
Synonyms:	D13S1056E; DAF19; hTg737; TG737; TTC10
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC109922 sequence for NM\_006531 edited (data generated by NextGen Sequencing)

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ATGATGCAAAATGTGCACCTGGCTCCAGAGACAGATGAAGATGATCTTTATTCGGCTAT
AATGACTACAATCCAATCTATGATATCGAGGAATTGGAGAATGATGCAGCTTTTCAGCAA
GCTGTGAGGACTAGTCATGGCAGAAKACCTCCAATAACTGCTAAAATATCAAGCACGGCA
GTTACTAGACCTATAGCTACTGGATATGGGTCCAAGACATCTCTGGCATCATCAATAGGA
AGACCAATGACAGGGGCTATTCAGGATGGAGTTACTAGACCCATGACAGCAGTGAGAGCA
GCTGGTTTTACCAAAGCAGCTTTGAGAGGCTCTGCATTTGACCCCTTAGTCAGTCAAGG
GGCCCTGCTTCCCTTTGGAAGCCAAGAAAAAAGATAGCCAGAGGAAAAATAAAGCAA
TTAGAGAAGGAAGTAAATGAGTTGGTAGAAGAAAGCTGTATTGCCAATAGTTGTGGAGAC
TTAAAATTGGCCTTAGAAAAGGCCAAAAGATGCAGGAAGAAAAGAGAGATCCTGGTGAGA
CAGCGAGAACAAGTTACAACCTCCAGAAAATATCAATTTGGATTTAACTTACTCAGTTCTT
TTCAATTTGGCCAGTCAGTATTCAGTTAATGAAATGTATGCCGAAGCACTAACACTTAT
CAAGTTATAGTCAAAAATAAGATGTTTAGCAATGCAGGAATATTGAAAATGAATATGGGA
AATATCTATTTAAAGCAAAGAAATTTATCCAAAGCCATTAATTTACTACCGAATGGCATT
GACYAAGTTCCAAGTGCTAATAAGCAAATGAGGATTAATAATGCAGAAATATTGGAGTT
ACATTTATTCAGGCTGGTCAGTATTCAGATGCTATTAATTCATATGAGCACAATAAGAGC
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AATGATCACCTCAGGCAAATGGAACGTGAAAGGAAAGCCATGGCAGAAAAATATATTATG
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TGCGTGGAAAGTGGTGAAGCTTCTCAATATGTAGAGCTAGCCAATGATCTGGAATAAAC
AAAGCAGTTACATACTTGAGACAAAAAGACTATAACCAAGCTGTAGAGATCTTAAAAGTG
TTGAAAAAAAAGGACARTAGAGTGAAAAGTGACAGCTGCAACCAATCTCTCAGCCCTGTAT
TATATGGGAAAGGATTTTGCACAAGCCAGCAGCTATGCAGATATAGCTGTGAACCTGAT
AGATATAATCCAGCAGCTCTTACTAATAAAGGGAATACAGTTTTTGCAAAATGGTGATTAT
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CTTTATAATATTGGCCTTACCTATGAGAACTAAATCGGCTAGATGAGGCTTTGGACTGT
TTCTGAAACTTCACGCAATCTACGAAACAGTGCCGAAGTTCTTTACCAGATAGCAAAAT
ATATATGAATTAATGAAAAATCCAGTCAAGCTATTGAATGGCTAATGCAGGTGGTCAGT
GTTATTCACCCGATCCTCAAGTTTTATCTAAGCTAGGAGAATTATATGATCGTGAAGGA
GATAAATCTCAAGCATTTCATATTAATTAATGAGTCATATAGGTATTTTCCTTGTAAATATT
GAAGTCATTGAGTGGCTTGGAGCCTATTACATTGACACCAATTTTGGAAAAAGCTATT
CAGTACTTTGAAAGAGCTTCTCTTATACAGCCTACACAAGTGAATGGCAGCTGATGGTA
GCTAGTTGTTTTCAGAAGAAGTGGTAACTACAAAAAGCATTAGATACTTACAAAGATACT
CACAGAAAATTTCCAGAAAATGTGCAATGTCTGCGTTTCTTAGTTCGTCTCTGCACAGAT
CTTGGATTAAGAATGCTCAAGAATATGCCAGAAAAGTGAAGAGGTTGGAAAAAATGAAA
GAAATAAGGGAAACAGCGCATAAAGTCAAGCAGAGATGGCAGTGGGGGCTCCCGTGGCAA
AGAGAAGGAAGTGTAGCGGTGATAGTGCCAGAACTATAGTGCCAGTAGTAAAGGTGAA
CGACTAAGTGCCAGACTCAGAGCTTTACCTGGGACAAATGAACCTTATGAAAGTAGCAGT
AACAAAGAAAATAGATGCCTCCTATGTGGACCCACTTGGCCCTCAAATAGAACGACCAAAA
ACTGCAGCCAAGAAAAGGATCGATGAGGATGATTTTGCTGATGAAGAATTAGGAGATGAT
TTGCTTCCAGAATAA

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Clone variation with respect to NM\_006531.3  
 146 g=>k;784 c=>y;1337 g=>r

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_006531 unedited CGCGAATTCGGCACGAGGTCGTCCCTGGGCCCGAATAACTGTGCGCCGCTTCCCTCAGCG TGAGGTGAAGCACTTCAGATTGCCTGATGAAAGTTGAATCAGGAATGAAGATAAAAGTAC ACAACAATGCAGAAAGCGGTAAGCTTAGCCTCACAAAGATGGAAACATTCAAAAACGTGAA AAACTGCAGTAGGCTTCTTGAAGTAGACCAAGGGTGTCCAATCTTTGGCTTCCCTGGGC CACATCGGAAGAAGAATTGTCTTGGGCCACACATGAAATTCACAAACACTAAGGTACAAA TGATGCAAAAATGTGCACCTGGCTCCAGAGACAGATGAAGATGATCTTTATTCCGGCTATA ATGACTACAATCCAATCTATGATATCGAGGAATTGGAGAATGATGCAGCTTTTCAGCAAG CTGTGAGGACTAGTCATGGCAGAAGACCTCCAATAACTGCTAAAAATCAAGCACGGCAG TTACTAGACCTATAGCTACTGGATATGGGTCCAAGACATCTCTGGCATCATCAATAGGAA GACCAATGACAGGGGCTATTCAGGATGGAGTTACTAGACCCATGACAGCAGTGAGAGCAG CTGGTTTTACCAAAGCAGCTTTGAGAGGCTCTGCATTTGACCCCTTAGTCAGTCAAGGG GCCCTGCTTTCCCTTTGGAAGCCAAGAANAAGATAGCCCAGAGGAAAAAATAAAGCATT TAGAGAAGGAAGTAAATGAGTTGGTAGAAGAA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006531
<b>Insert Size:</b>	3080 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006531.2</a> , <a href="#">NP_006522.2</a>
<b>RefSeq Size:</b>	2872 bp
<b>RefSeq ORF:</b>	2475 bp
<b>Locus ID:</b>	8100
<b>UniProt ID:</b>	<a href="#">Q13099</a>
<b>Cytogenetics:</b>	13q12.11
<b>Domains:</b>	TPR

**Gene Summary:**

This gene encodes a member of the tetratricopeptide 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]

Transcript Variant: This variant (2) lacks multiple alternate exons in the 5' UTR and lacks a portion of the 5' coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and result in an isoform (2) with a shorter N-terminus, compared to isoform 1. Variants 2 and 9 both encode the same isoform (2).