

## Product datasheet for **SC108831**

### TTC8 (NM\_144596) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TTC8 (NM_144596) Human Untagged Clone
Tag:	Tag Free
Symbol:	TTC8
Synonyms:	BBS8; RP51
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_144596, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTCGGAGATGGAGCCGCTGCTCCTGGCCTGGAGCTATTTAGGCGCAGGAAGTCCAGCTCTGCC
CCGATCTATGCACGCAGATGCTGGAGAAGTCCCCTTATGACCAGGAACCAGATCCTGAATTGCCAGTGCA
TCAGGCAGCTTGGATCTTAAAAGCAAGAGCGCTAACAGAAATGGTATACATAGATGAAATGATGTAGAT
CAGGAAGGAATTGCAGAAATGATGCTGGATGAAAATGCTATAGCTCAAGTTCCACGCCCTGGAACGTCTT
TGAAACTCCCTGGAATAATCAGACAGGAGGGCCTAGCCAGGCCGTTAGGCCAATCACACAAGCTGGAAG
ACCCATTACAGTTTCTCAGGCCCAGCACGCAGAGTGGAAAGCCAGGCACTATGGAACAGGCTATCAGA
ACACCCAGAACCCTACACAGCCCGCCCTATCACCAGCTCCTCCGGAAGATTTGTCAGGCTGGGAACGG
CTTCCATGCTTACAAGTCTGATGGACATTTATAAATTTATCTAGGCTGAATTTAACAAAGTATCCCA
GAAACCTAAGTTGGCAAAGGCTTTGTTGAGTATATCTTTCATCATGAAAATGATGTTAAGACTGCTTTG
GATCTGGCTGCCCTCTCCACAGAACATTCTCAGTACAAGGACTGGTGGTGGAAAGTACAGATTGGAAAAT
GTTACTACAGTTGGGAATGTATCGTGAAGCAGAAAAACAGTTTAAATCAGCCCTGAAGCAGCAGGAAAT
GGTAGATACATTTCTGTACTTGGCAAAAGTTTATGTCTCATTGGATCAACCTGTGACTGCTTTAAATCTT
TTCAAACAAGGCTTAGATAAGTTTCCAGGAGAAGTAACCTGCTCTGTGGAAATTGCAAGAATCTATGAGG
AAATGAACAATATGTCATCAGCAGCAGAATATTACAAAGAAGTTTTGAAACAAGACAATACTCATGTGGA
AGCCATCGCATGCATTGGAAGCAACCCTTCTATTCTGATCAGCCAGAAATAGCTCTCCGGTTTTACAGG
CGGCTGCTGCAGATGGGCATTTATAACGGCCAGCTTTTTAAACAATCTGGGGCTGTGTTGCTTCTATGCC
AGCAGTATGATATGACTCTGACCTCATTGAACGTGCCCTTTCTTTGGCTGAAAATGAAGAAGAGGCAGC
TGATGTCTGGTACAACCTGGGACATGTAGCTGTGGAAATAGGAGATACAAATTTGGCCCATCAGTGCTTC
AGGCTGGCTCTGGTCAACAACAACAACCCAGCCGAGGCCTACAACAACCTGGCTGTGCTGGAGATGCCGA
AGGGCCACGTTGAACAGGCAAGGCACTATTACAAACTGCATCATTAGCACCCCATATGTATGAACC
GCATTTTAAATTTGCAACAATCTCTGATAAGATTGGAGATCTGCAGAGAAGCTATGTTGCTGCGCAGAAG
TCTGAAGCAGCATTTCCAGACCATGTGGACACACAACATTTAATTAACAATTAAGGCAGCATTTTGCTA
TGCTCTGA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_144596 unedited

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NAGGTGTGCCCTATTTAGTTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCA
GAGTCGGACGCCGCCAGCTCTTCACTCCACGCCACCTCTCTCCTGGAGCGCTGGGCCTT
CGCTGGCCGCACCGGCAGCCATGAGCTCGGAGATGGAGCCGCTGCTCCTGGCCTGGAGCT
ATTTTAGGCGCAGGAAGTTCAGCTCTGCGCCGATCTATGCACGCAGATGCTGGAGAAGT
CCCCTTATGACCAGGCAGCTTGGATCTTAAAAGCAAGAGCGCTAACAGAAATGGTATACA
TAGATGAAATGATGTAGATCAGGAAGGAATTGCAGAAATGATGCTGGATGAAAATGCTA
TAGCTCAAGTTCCACGCCCTGGAACGTCTTTGAAACTCCCTGGAATAATCAGACAGGAG
GGCTTAGCCAGGCCGTTAGGCCAATCACACAAGCTGGAAGACCCATTACAGGTTTCTCA
GGCCACGACGCAGAGTGGAAAGCCAGGCACTATGGAACAGGCTATCAGAACACCCAGAA
CCGCTACACAGCCCGCCCTATCACCAGCTCCTCCGGAAGATTTGTCAGGCTGGGAACGG
CTTCCATGCTTACAAGTCTGATGGACATTTATAAATTTATCTAGGCTGAATNTAACAA
AGTATCCAGAAACCTAAGTTGGCAAAGGCTNTGTTGAGTATATCTTTCATCATGAAA
ATGATGTTAAGACTGCTTTGGATCTGGCTGCCCTCTCCACAGACATTCTCAGTACAAGGA
CTGGTGGTGGAAAGTACAGATTGAAAAATGTTACTACAGTTGGGAATGTATCGTGAAGC
AGAAAACAGTTTAAATCAGCCCTGAAGCAGCNAGAAATGGTAGATACATTTCTGTACTGG
GCAAAAGTTATGTCTCATTGGATCC
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_144596 unedited ATTTACTGTGNACCGCGCCGCTTCTAGNGATCGATTTTTTTTTTTTTTTTTTTGATG GTGTTTTACACAATGATTTATTTTAAAGCTTAATAGGAAATCACAAAGTATTTAATAAAA AATAGTTTTAAATACATTTTTAAAGTCTTAAGGAAAGTCTCTATTTATAATCCTCCCACC TCCACCTCCCAAGTAGCTGGGACTATAGGCACATGCTACCACACCTGGCTTAAAGGTGCA GTTTTAATGGCAGATTTTCAGACTCCTTAAGCTACATGATGGCTAAGAGTCAGCTTAAGGA CTTAAAAAATGTACATTTATAAAACATTGAGGAAATTCACCAAAATGTTTTGTAACATT ATAAACAAACATCTACTATATAATGTGAGAGACAGTTTTAGGATCTATTTAGAAAGTTTT AAATCCTGTATTTTATAATATTATTTTATAAAAGTTACTATTACTATGAAATTTGCATTAC ACATTCTGTGTCACCCCTTATGTGTACCTTAACATAATCAAGGACAGGTTTGTAAAAAT ATACGTATTACACTATATACATACACAGACATAGTGCTTTTTTCCCCTTGATAAT GCTGCTTCATAAGAACATATGTGGTCTAAGGAACAATCAGAGCATAGCAAAATGCTGCCT TAATTGTTTTAAATAAATGTTGTGTGCCACATGGTCTGGAAATGCTGCTCAAACCTCTG CGCACCAACATAACTTTCTCGCAGATCTCCAATCCTTATCAGAGATTGTTGCGAAAATA AAATGCGGTTTCATACATAATGGGGTGCTAAAGATGAAGCAGTTTGTAAAAATGCCCTTG CCCGTTACAGTGGCCCTTCCGCATCTCCACACAACCAGTTGTTGTAAGCCTCCGCCTGG TTTTTGTTGTACCAAACCCAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_144596
<b>Insert Size:</b>	2200 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_144596.2</a> , <a href="#">NP_653197.2</a>
<b>RefSeq Size:</b>	2248 bp
<b>RefSeq ORF:</b>	1548 bp
<b>Locus ID:</b>	123016
<b>UniProt ID:</b>	<a href="#">Q8TAM2</a>
<b>Cytogenetics:</b>	14q31.3
<b>Domains:</b>	TPR

**Gene Summary:**

This gene encodes a protein that has been directly linked to Bardet-Biedl syndrome. The primary features of this syndrome include retinal dystrophy, obesity, polydactyly, renal abnormalities and learning disabilities. Experimentation in non-human eukaryotes suggests that this gene is expressed in ciliated cells and that it is involved in the formation of cilia. A mutation in this gene has also been implicated in nonsyndromic retinitis pigmentosa. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]  
Transcript Variant: This variant (1) encodes isoform A.