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# Product datasheet for RC218089

## TTC8 (NM_144596) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | TTC8 (NM_144596) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | TTC8 |
| **Synonyms:** | BBS8; RP51 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

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**ORF Nucleotide Sequence:**

>RC218089 representing NM_144596
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCTCGGAGATGGAGCCGCTGCTCCTGGCCTGGAGCTATTTTAGGCGCAGGAAGTTCCAGCTCTGCG
CCGATCTATGCACGCAGATGCTGGAGAAGTCCCCTTATGACCAGGAACCAGATCCTGAATTGCCAGTGCA
TCAGGCAGCTTGGATCTTAAAAGCAAGAGCGCTAACAGAAATGGTATACATAGATGAAATTGATGTAGAT
CAGGAAGGAATTGCAGAAATGATGCTGGATGAAAATGCTATAGCTCAAGTTCCACGCCCTGGAACGTCTT
TGAAACTCCCTGGAACTAATCAGACAGGAGGGCCTAGCCAGGCCGTTAGGCCAATCACACAAGCTGGAAG
ACCCATTACAGGTTTCCTCAGGCCCAGCACGCAGAGTGGAAGGCCAGGCACTATGGAACAGGCTATCAGA
ACACCCAGAACCGCCTACACAGCCCGCCCTATCACCAGCTCCTCCGGAAGATTTGTCAGGCTGGGAACGG
CTTCCATGCTTACAAGTCCTGATGGACCATTTATAAATTTATCTAGGCTGAATTTAACAAAGTATTCCCA
GAAACCTAAGTTGGCAAAGGCTTTGTTTGAGTATATCTTTCATCATGAAAATGATGTTAAGACTGCTTTG
GATCTGGCTGCCCTCTCCACAGAACATTCTCAGTACAAGGACTGGTGGTGGAAAGTACAGATTGGAAAAT
GTTACTACAGGTTGGGAATGTATCGTGAAGCAGAAAAACAGTTTAAATCAGCCCTGAAGCAGCAGGAAAT
GGTAGATACATTTCTGTACTTGGCAAAAGTTTATGTCTCATTGGATCAACCTGTGACTGCTTTAAATCTT
TTCAAACAAGGCTTAGATAAGTTTCCAGGAGAAGTAACCCTGCTCTGTGGAATTGCAAGAATCTATGAGG
AAATGAACAATATGTCATCAGCAGCAGAATATTACAAAGAAGTTTTGAAACAAGACAATACTCATGTGGA
AGCCATCGCATGCATTGGAAGCAACCACTTCTATTCTGATCAGCCAGAAATAGCTCTCCGGTTTTACAGG
CGGCTGCTGCAGATGGGCATTTATAACGGCCAGCTTTTTAACAATCTGGGGCTGTGTTGCTTCTATGCCC
AGCAGTATGATATGACTCTGACCTCATTTGAACGTGCCCTTTCTTTGGCTGAAAATGAAGAAGAGGCAGC
TGATGTCTGGTACAACTTGGGACATGTAGCTGTGGGAATAGGAGATACAAATTTGGCCCATCAGTGCTTC
AGGCTGGCTCTGGTCAACAACAACAACCACGCCGAGGCCTACAACAACCTGGCTGTGCTGGAGATGCGGA
AGGGCCACGTTGAACAGGCAAGGGCACTATTACAAACTGCATCATCATTAGCACCCCATATGTATGAACC
GCATTTTAATTTTGCAACAATCTCTGATAAGATTGGAGATCTGCAGAGAAGCTATGTTGCTGCGCAGAAG
TCTGAAGCAGCATTTCCAGACCATGTGGACACACAACATTTAATTAAACAATTAAGGCAGCATTTTGCTA
TGCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC218089 representing NM_144596
Red=Cloning site Green=Tags(s)

MSSEMEPLLLAWSYFRRRKFQLCADLCTQMLEKSPYDQEPDPELPVHQAAWILKARALTEMVYIDEIDVD
QEGIAEMMLDENAIAQVPRPGTSLKLPGTNQTGGPSQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIR
TPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYIFHHENDVKTAL
DLAALSTEHSQYKDWWWKVQIGKCYYRLGMYREAEKQFKSALKQQEMVDTFLYLAKVYVSLDQPVTALNL
FKQGLDKFPGEVTLLCGIARIYEEMNNMSSAAEYYKEVLKQDNTHVEAIACIGSNHFYSDQPEIALRFYR
RLLQMGIYNGQLFNNLGLCCFYAQQYDMTLTSFERALSLAENEEEAADVWYNLGHVAVGIGDTNLAHQCF
RLALVNNNNHAEAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATISDKIGDLQRSYVAAQK
SEAAFPDHVDTQHLIKQLRQHFAML

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

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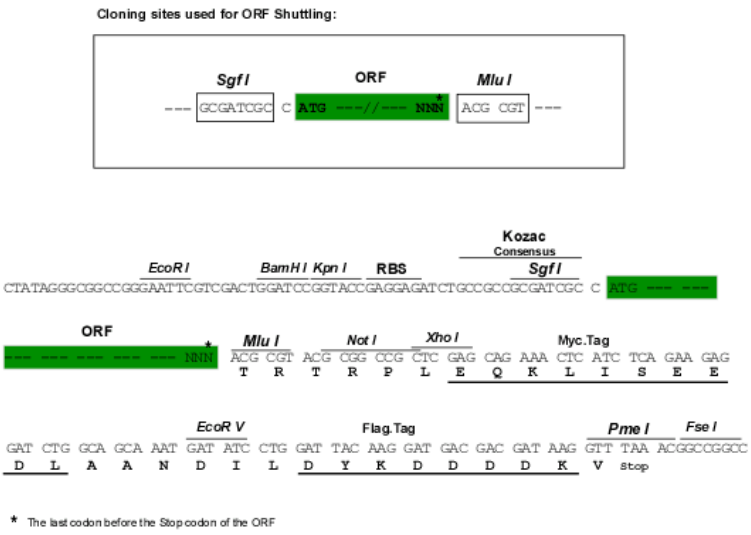
**Cloning Scheme:**




**ACCN:** NM_144596

**ORF Size:** 1545 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_144596.4

**RefSeq Size:** 2248 bp

**RefSeq ORF:** 1548 bp

**Locus ID:** 123016

**UniProt ID:** Q8TAM2

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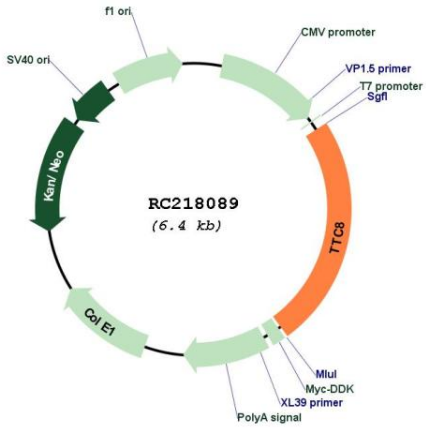
| | |
|---|---|
| **Cytogenetics:** | 14q31.3 |
| **Domains:** | TPR |
| **MW:** | 58.2 kDa |
| **Gene Summary:** | This gene encodes a protein that has been directly linked to Bardet-Biedl syndrome. The primary features of this syndrome include retinal dystrophy, obesity, polydactyly, renal abnormalities 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] |

## Product images:




Circular map for RC218089

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