

Product datasheet for **RG218089**

TTC8 (NM_144596) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTC8
Synonyms:	BBS8; RP51
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218089 representing NM_144596
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAGCTCGGAGATGGAGCCGCTGCTCCTGGCCTGGAGCTATTTAGGCGCAGGAAGTTCAGCTCTGCG
 CCGATCTATGCACGCAGATGCTGGAGAAGTCCCCTTATGACCAGGAACAGATCCTGAATTGCCAGTGCA
 TCAGGCAGCTTGGATCTTAAAGCAAGAGCGCTAACAGAAATGGTATACATAGATGAAATTGATGTAGAT
 CAGGAAGGAATTGCAGAAATGATGCTGGATGAAAATGCTATAGCTCAAGTTCACGCGCTGGAACGCTCT
 TGAAACTCCCTGGAATAATCAGACAGGAGGGCCTAGCCAGGCCGTTAGGCCAATCACACAAGCTGGAAG
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 GCATTTTAATTTGCAACAATCTCTGATAAGATTGGAGATCTGCAGAGAAGCTATGTTGCTGCCGAGAAG
 TCTGAAGCAGCATTTCCAGACCATGTGGACACACAACATTTAATTAACAATTAAGGCAGCATTTTGCTA
 TGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

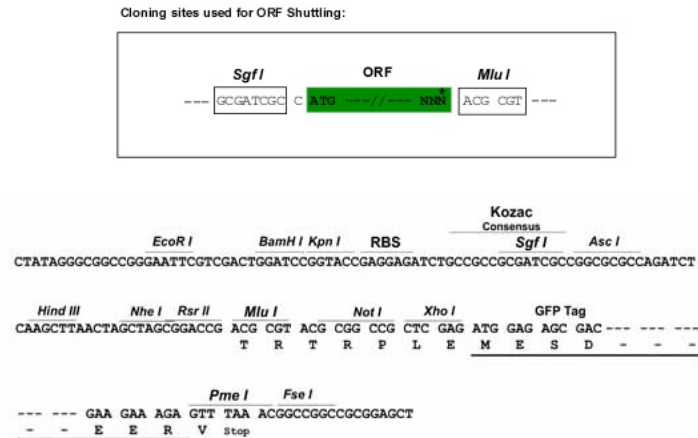
Protein Sequence: >RG218089 representing NM_144596
 Red=Cloning site Green=Tags(s)

MSSEMEPLLLAWSYFRRRKFLCADLCTQMLEKSPYDQEPDPELPVHQAAWILKARALTEMVYIDEIDVD
 QEGIAEMMLDENAIQVPRPGTSLKLPGTNQTGGPSQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIR
 TPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYIFHHENDVKTAL
 DLAALSTEHSQYKDWVWKVQIGKCYRLGMYREAEKQFKSALKQQEMVDFTLYLAKVYVSLDQPVTA
 NLFKQGLDKFPGEVTLLCGIARIYEEMNNMSSAAEYKEVLKQDNTHVEAIACIGSNHFYSDQPEIALRFYR
 RLLQMGIIYNGQLFNNLGLCCFYAQYDMLTTSFERALSLAENEEEAADVWYNLGHVAVGIGDTNLAHQCF
 RLALVNNNNHAEAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATISDKIGDLQRSYVAAQK
 SEAAFPDHVDTQHLLIKQLRQHFAML

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

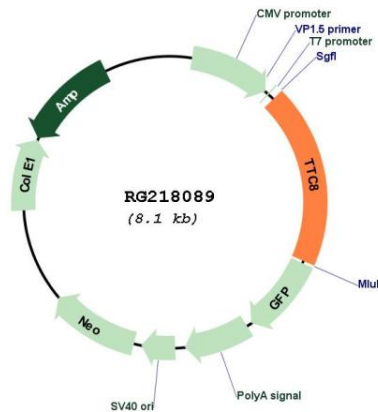
RefSeq: [NM_144596.4](#)

RefSeq Size: 2248 bp

RefSeq ORF: 1548 bp
Locus ID: 123016
UniProt ID: [Q8TAM2](#)
Cytogenetics: 14q31.3
Domains: 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]

Product images:



Circular map for RG218089