

Product datasheet for **RG207504**

BBS7 (NM_018190) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | BBS7 (NM_018190) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | BBS7 |
| Synonyms: | BBS2L1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG207504 representing NM_018190
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATCTGATTTTAAACCGAATGGATTATCTGCAGTGGGAGTAACATCTCAGAAGACTATGAAGCTAA
 TTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCATGATGGGGTAGTTATGTGCTT
 TGGCATGAAGAAAAGGAGAAGCAGCAGCAGTGTCAAGACTTTACCCGGGCCGAAGATTGCAAGGCTGGAA
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 CAAAAAGAGGAAAACAGTTCCTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATC
 TGGCTCAGACCTCTTCTCAGTCAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTAT
 TACCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTCCAGTGGAAAGATTATCTCGTATCACACCTG
 TATTGGCCTGCCAGGACAGAGTCTCAGAGTTTACAGGGATCTGATGTGATGTATGCAGTTGAAGTTCC
 TGGACCCCTACTGTCTTAGCACTACACAATGGAATGGCGGTGACTCTGGAGAAGACCTTTTGTGGG
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 ATGAGAAAAAGAGAGGAGGTATTTGTGTATTGACAGCTTTGACATTGTGGGTGATGGGGTTAAAGATT
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 TTTGATCAGATGTTGTCTGAAAGCGTCACATCTATCCAGGGTGGTTGTGTAGGAAAAGACAGCTATGATG
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 CTTTCACTCCATCAAAGAACTCACTTTATTGATCATGACAGCCCATGAATACACTGACCCTAACAGGCC
 AGTTCAGTTTTGCTGAAGTTCACCTCTGGGTGGTTTTTTGTCTGCCTGAAGTTCAGAAAAACCTCCAGC
 AGGAGAATGTGTGACATTTACTTTCAGAACACCTTTCTAGATACACAACCTGAAAGTACCTACAGAAAA
 GGAGAGGGAGTTTTTAAATCTGACAACATTTCTACTATCTCCATCTAAAAGATGTGCTTTCTAAAGAAG
 CTACAAAAAGGAAAATTAACCTCAACATATCATACGAGATAAATGAAGTATCAGTCAAACACACTTTAAA
 GCTAATCCACCCAAAGCTGGAGTACCAGTTGCTTTTGGCTAAGAAAGTGCAGTTAATTGATGCTTTAAAA
 GAATTACAGATTCATGAGGGAAATACGAACTTTCTGATACCAGAAATCACTGTATTCTAGAAGAGGCAG
 ATCACCTACAGGAAGAATACAAAAAGCAACCTGCACATCTTGAAGACTCTATGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207504 representing NM_018190
Red=Cloning site Green=Tags(s)

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MDLILNRMDYLQVGVTSQKTMKLI PASRHRATQKVVIGDHDGVVMCFGMKKGEAAVFKTLPGPKIARLE
LGGVINTPQEKIFIAAASEIRGFTRKGRKQFLSFETNLTESIKAMHISGSDLFLSASYIYNHYCDCKDQHY
YLSGDKINDVICLPVERLSRITPVLACQDRVLRVLQGSQSDVMYAVEVPGPPTVLALHNGNGDSEDLLFG
TSDGKLALIQTTSKPVRKWEIQNEKKRGGILCIDSFDIVGDGVKDLLVGRDDGMVEVYSFDNANEPVLR
FDQMLSESVTSIQGGCVGKDSYDEIVVSTYSGWVTGLTTEPIHKESGPGEEELKINQEMQNKISSLRNELE
HLQYKVLQERENYQQSSQSSKAKSAVPSFGINDKFTLNKDDASYSLILEVQTAIDNVLIQSDVPIDLLDV
DKNSAVVSFSSCDESENDNLLATYRCQADTTRLELKIRSIIEGQYGTLQAYVTPRIQPKTCQVRQYHIKP
LSLHQRTHFIDHRPMNTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGECVTFYFQNTFLDTQLESTYRK
GEGVFKSDNISTISILKDVLSKEATKRKINLNISYEINEVSVKHTLKL IHPKLEYQLLLAKKVQLIDALK
ELQIHEGNTNFLIPEYHCILEEADHLQEEYKKQPAHLERLYG
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018190

ORF Size: 2016 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_018190.3](#)

RefSeq Size: 2606 bp

RefSeq ORF: 2019 bp

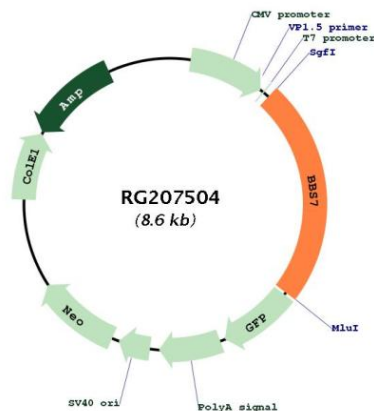
Locus ID: 55212

UniProt ID: [Q8IWZ6](#)

Cytogenetics: 4q27

Gene Summary: This gene encodes one of eight proteins that form the BBSome complex containing BBS1, BBS2, BBS4, BBS5, BBS7, BBS8, BBS9 and BBIP10. The BBSome complex is believed to recruit Rab8(GTP) to the primary cilium and promote ciliogenesis. The BBSome complex assembly is mediated by a complex composed of three chaperonin-like BBS proteins (BBS6, BBS10, and BBS12) and CCT/TRiC family chaperonins. Mutations in this gene are implicated in Bardet-Biedl syndrome, a genetic disorder whose symptoms include obesity, retinal degeneration, polydactyly and nephropathy; however, mutations in this gene and the BBS8 gene are thought to play a minor role and mutations in chaperonin-like BBS genes are found to be a major contributor to disease development in a multiethnic Bardet-Biedl syndrome patient population. Two transcript variants encoding distinct isoforms have been identified for this gene.[provided by RefSeq, Oct 2014]

Product images:



Circular map for RG207504