

Product datasheet for **RG224479**

BBS7 (NM_176824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS7 (NM_176824) 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:

>RG224479 representing NM_176824
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGATCTGATTTTAAACCGAATGGATTATCTGCAGTGGGAGTAACATCTCAGAAGACTATGAAGCTAA
TTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCATGATGGGGTAGTTATGTGCTT
TGGCATGAAGAAAAGGAGAAGCAGCAGCAGTGTTCAGACTTTACCCGGGCCGAAGATTGCAAGGCTGGAA
CTGGGAGGGGTTATCAACACACCTCAGGAGAAAATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTCA
CAAAAAGAGGAAAACAGTTCCTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATC
TGGCTCAGACCTCTTCTCAGTCAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTAT
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ATGAGAAAAGAGAGGAGGTATTTGTGTATTGACAGCTTTGACATTGTGGGTGATGGGGTTAAAGATT
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TTTGATCAGATGTTGTCTGAAAGCGTCACATCTATCCAGGGTGGTTGTGTAGGAAAAGACAGCTATGATG
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CAGCAGTACCTTCTTTGGTATAAATGATAAATTTACACTAAATAAAGATGATGCCAGTTACAGCCTTAT
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GAATTACAGATTCATGAGGGAAATACGAACTTTCTGATACCAGAAATCACTGTATTCTAGAAGAGGCAG
ATCACCTACAGGAAGAATACAAAAGCAACCTGCACATCTTGAAGACTCTATGGCATGATCACTGATCT
TTTCATAGATAAATTTAAGTTTAAAGGCACCAATGTAAAAACTAAAGTACCCCTTCTATTGGAAATTCG
GACAGTTATGACCAAAATGCATTGATTTCACTTCTCGATGCAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224479 representing NM_176824
 Red=Cloning site Green=Tags(s)

MDLILNRMDYLQVGVT SQKTMKLI PASRHRATQKV VIGDHDG VVMCFGMKKGEAAVFKTLPGPKIARLE
 LGGVINTPQEKIFIAAASEIRGF TKRGKQFLSFETNLTESIKAMHISGSDLFLSASYIYNHYCDCKDQHY
 YLSGDKINDVICLPVERLSRITPVLACQDRVLRVLQGS DVMYAVEVPGPPTVLALHNGNGGDSGEDLLFG
 TSDGKLALIQTTSKPVRKWEIQNEKKRGGILCIDSFDIVGDGVKDLLVGRDDGMVEVYSFDNANEPVLR
 FDQMLSESVTSIQGGCVGKDSYDEIVVSTYSGWVTGLTTEPIHKESGPG EELKINQEMQNKISSLRNELE
 HLQYKVLQERENYQQSSQSSKAKSAVPSFGINDKFTLNKDDASYSLILEVQTAIDNVLIQSDVPIDLLDV
 DKNSAVVSFSSCDESNDFLLATYRCQADTTRELEKIRSI EGQYGT LQAYVTPRIQPKTCQVRQYHIKP
 LSLHQRTHFIDHDRPMNTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGECVTFYFQNTFLD TQLESTYRK
 GEGVFKSDNISTISILKDVLSKEATKRKINLNISYEINEVSVKHTLKL IHPKLEYQLLLAKKVQLIDALK
 ELQIHEGNTNFLIPEYHCILEEADHLQEEYKQPAHLERLYGMITDLFIDKFKFGT NVKTKVPLLEIL
 DSYDQNALISFFDAA

TRTRPLE - GFP Tag - V

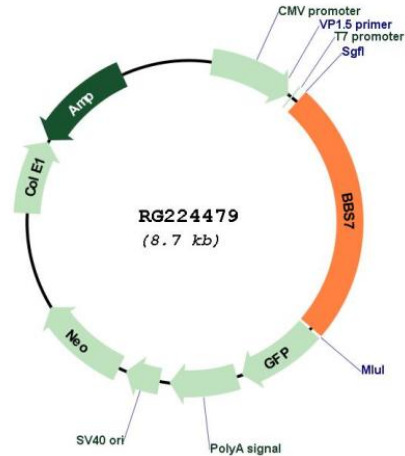
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_176824

ORF Size: 2145 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_176824.3](#)

RefSeq Size: 3718 bp

RefSeq ORF: 2148 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]