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Product datasheet for RC224479

BBS7 (NM_176824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS7 (NM_176824) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BBS7
Synonyms:	BBS2L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224479 representing NM_176824
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATCTGATTTTAAACCGAATGGATTATCTGCAGGTGGGAGTAACATCTCAGAAGACTATGAAGCTAA
TTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCATGATGGGGTAGTTATGTGCTT
TGGCATGAAGAAAGGAGAAGCAGCAGCAGTGTTCAAGACTTTACCCGGGCCGAAGATTGCAAGGCTGGAA
CTGGGAGGGGTTATCAACACACCTCAGGAGAAAATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTCA
CAAAAAGAGGAAAACAGTTCCTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATC
TGGCTCAGACCTCTTTCTCAGTGCAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTAT
TACCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTTCCAGTGGAAAGATTATCTCGTATCACACCTG
TATTGGCCTGCCAGGACAGAGTGCTCAGAGTTTTACAGGGATCTGATGTGATGTATGCAGTTGAAGTTCC
TGGACCCCCTACTGTCTTAGCACTACACAATGGAAATGGCGGTGACTCTGGAGAAGACCTTTTGTTTGGG
ACATCAGACGGAAAACTTGCGCTTATACAGATTACTACATCCAAACCAGTACGCAAGTGGGAAATTCAAA
ATGAGAAAAAGAGAGGAGGTATTTTGTGTATTGACAGCTTTGACATTGTGGGTGATGGGGTTAAAGATTT
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TTTGATCAGATGTTGTCTGAAAGCGTCACATCTATCCAGGGTGGTTGTGTAGGAAAAGACAGCTATGATG
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ACCAGGAGAAGAACTAAAAATTAATCAGGAGATGCAGAATAAAATTTCTTCCTTACGGAATGAGTTGGAA
CATTTGCAGTATAAGGTATTGCAGGAAAGAGAGAATTATCAACAGTCTTCTCAATCAAGCAAAGCAAAAT
CAGCAGTACCTTCCTTTGGTATAAATGATAAATTTACACTAAATAAAGATGATGCCAGTTACAGCCTTAT
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CTTTCACTCCATCAAAGAACTCACTTTATTGATCATGACAGACCCATGAATACACTGACCCTAACAGGCC
AGTTCAGTTTTGCTGAAGTTCACTCCTGGGTGGTTTTTTGTCTGCCTGAAGTTCCAGAAAAACCTCCAGC
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GCTAATCCACCCAAAGCTGGAGTACCAGTTGCTTTTGGCTAAGAAAGTGCAGTTAATTGATGCTTTAAAA
GAATTACAGATTCATGAGGGAAATACGAACTTTCTGATACCAGAATATCACTGTATTCTAGAAGAGGCAG
ATCACCTACAGGAAGAATACAAAAAGCAACCTGCACATCTTGAAAGACTCTATGGCATGATCACTGATCT
TTTCATAGATAAATTTAAGTTTAAAGGCACCAATGTAAAAACTAAAGTACCCCTTCTATTGGAAATTCTG
GACAGTTATGACCAAAATGCATTGATTTCATTCTTCGATGCAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224479 representing NM_176824
Red=Cloning site Green=Tags(s)

MDLILNRMDYLQVGVTSQKTMKLIPASRHRATQKVVIGDHDGVVMCFGMKKGEAAAVFKTLPGPKIARLE
LGGVINTPQEKIFIAAASEIRGFTKRGKQFLSFETNLTESIKAMHISGSDLFLSASYIYNHYCDCKDQHY
YLSGDKINDVICLPVERLSRITPVLACQDRVLRVLQGSDVMYAVEVPGPPTVLALHNGNGGDSGEDLLFG
TSDGKLALIQITTSKPVRKWEIQNEKKRGGILCIDSFDIVGDGVKDLLVGRDDGMVEVYSFDNANEPVLR
FDQMLSESVTSIQGGCVGKDSYDEIVVSTYSGWVTGLTTEPIHKESGPGEELKINQEMQNKISSLRNELE
HLQYKVLQERENYQQSSQSSKAKSAVPSFGINDKFTLNKDDASYSLILEVQTAIDNVLIQSDVPIDLLDV
DKNSAVVSFSSCDSESNDNFLLATYRCQADTTRLELKIRSIEGQYGTLQAYVTPRIQPKTCQVRQYHIKP
LSLHQRTHFIDHDRPMNTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGECVTFYFQNTFLDTQLESTYRK
GEGVFKSDNISTISILKDVLSKEATKRKINLNISYEINEVSVKHTLKLIHPKLEYQLLLAKKVQLIDALK
ELQIHEGNTNFLIPEYHCILEEADHLQEEYKKQPAHLERLYGMITDLFIDKFKFKGTNVKTKVPLLLEIL
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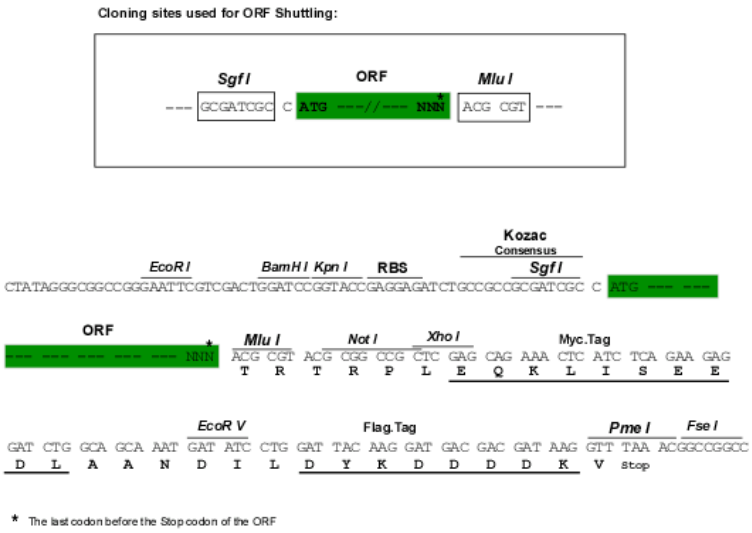
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

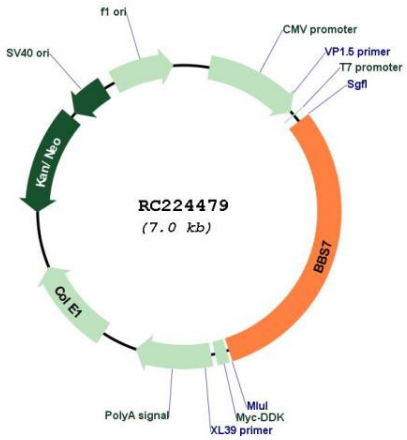
UniProt ID: Q8IWZ6

Cytogenetics: 4q27

MW: 80.2 kDa

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 RC224479