

Product datasheet for **RG204337**

BBS2 (NM_031885) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS2 (NM_031885) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BBS2
Synonyms:	BBS; RP74
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG204337 representing NM_031885
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCTGCCTGTGTTACCCCTGAAACTGCGCCACAAAATCAGCCCCGAATGGTGCCATAGGGCGCT
ACGACGGGACTCACCCGTGCCTGGCGGCCGCCACCCAAACGGGCAAGGTTTTTATTCATAATCCTCATA
ACGGAACCAGCATGTCAGTGCATCCAGGTCTTCCAGAGCCCCCTGGAATCTGATGTTTCTCTTCTCAAC
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GCAATTCGAAGCAATAACATCAACACACTGTTCAAATCATGCGAGTGGGGACAGCTTCTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204337 representing NM_031885
 Red=Cloning site Green=Tags(s)

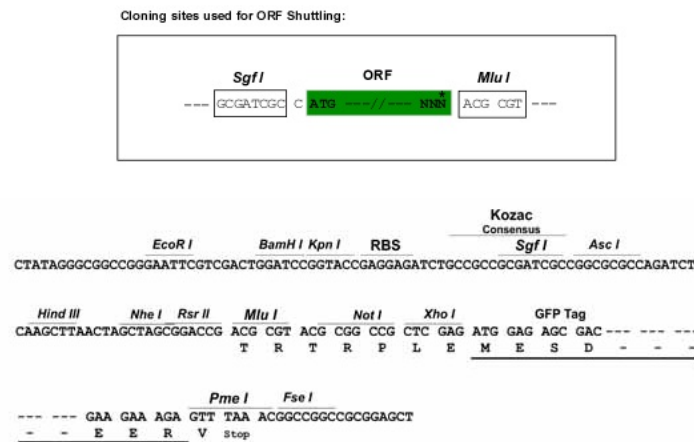
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NCALQGFNHEGSDFWTVTGDVNSLALCDFDGDGK KELLVGSSEDFDIRVFKEDI VAEMTETEIVTSLC
PMYGSRFGYAL SNGTVGVYDKTSRYWRIKSKNHAMSIHAFDLNSDGVNELITGWSNGKVDARS DRTGEVI
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ELRNYEENAKAELASPLNEADGHRGIIPANTRLHTT LSVSLGNETQTAHTELRI STSNDTIIRAVLIFAE
GIFTGESHVVHPSIHNLS SSSICIPVPPKDV PVDLHLKAFVGYRSSTQFHVFESTRQLPRFSMYALTSLD
PASEPISYVNF TIAERAQRVVVWLQONFLLPEDTHIQNAPFQVCFTSLRNGGHLHIKIKLSGEITINTDD
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AIRSNNINTL FKIMRVGTASS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031885

ORF Size: 2163 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_031885.2](#), [NP_114091.2](#)

RefSeq Size: 2978 bp

RefSeq ORF: 2166 bp

Locus ID: 583

UniProt ID: [Q9BXC9](#)

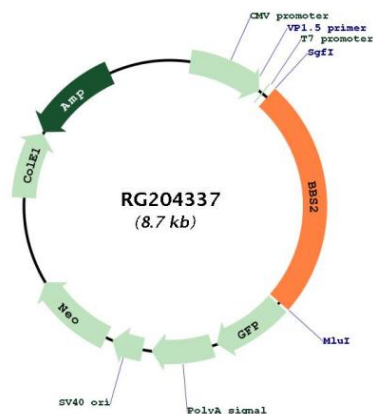
Cytogenetics: 16q13

Domains: FG-GAP

Protein Families: Druggable Genome

Gene Summary: This gene is a member of the Bardet-Biedl syndrome (BBS) gene family. Bardet-Biedl syndrome is an autosomal recessive disorder characterized by severe pigmentary retinopathy, obesity, polydactyly, renal malformation and cognitive disability. The proteins encoded by BBS gene family members are structurally diverse and the similar phenotypes exhibited by mutations in BBS gene family members is likely due to their shared roles in cilia formation and function. Many BBS proteins localize to the basal bodies, ciliary axonemes, and pericentriolar regions of cells. BBS proteins may also be involved in intracellular trafficking via microtubule-related transport. The protein encoded by this gene forms a multiprotein BBSome complex with seven other BBS proteins.[provided by RefSeq, Oct 2014]

Product images:



Circular map for RG204337