

## Product datasheet for **RG233837**

### **BBS4 (NM\_001252678) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	BBS4 (NM_001252678) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BBS4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233837 representing NM_001252678 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGAAGATCCACTTGCTGGAGGGAGACTTGGACAAGGCCATTGAAGTCTACAAGAAAGCAGTGG  
AGTTCTCACCAGAAAATACAGAGCTTCTTACAACCTTAGGATTACTCTACTTACAGCTCGGCATTTACCA  
GAAGGCATTTGAACATCTTGGCAATGCACTGACTTATGACCCTACCAACTACAAGCCATCTTGGCAGCA  
GGCAGCATGATGCAGACCCACGGGGACTTTGATGTTGCCCTCACCAAATACAGAGTTGTGGCTTGTGCTG  
TTCCAGAAAGTCCTCCACTCTGGAATAACATTGGAATGTGTTTCTTTGGCAAGAAGAAATATGTGGCGGC  
CATCAGCTGCCTGAAACGAGCCAACTACTTGGCACCCCTCGATTGGAAGATTCTGTATAATTTGGGCCTT  
GTCCATTTGACCATGCAGCAGTATGCATCAGCTTTTCATTTTCTCAGTGCGGCCATCAACTTCCAGCCAA  
AGATGGGGGAGCTCTACATGCTCTTGGCAGTGGCTCTGACCAATCTGGAAGATATAGAAAATGCCAAGAG  
AGCCTACGCAGAAGCAGTCCACCTGGATAAGTGTAAACCTTTAGTAAACCTGAACTATGCTGTGCTGCTG  
TACAACCAGGGCGAGAAGAAGAACGCCCTGGCCCAATATCAGGAGATGGAGAAGAAAGTCAGCCTACTCA  
AGGACAATAGCTCTTGGAAATTTGACTCTGAGATGGTGGAGATGGCTCAGAAGTTGGGAGCTGCTCTCCA  
GGTTGGGGAGGCACTGGTCTGGACCAAACAGTTAAAGATCCCAAATCAAAGCACCAGACCACTTCAACC  
AGCAAACCTGCCAGTTTCCAGCAGCCTCTGGGCTCTAATCAAGCTCTAGGACAGGCAATGTCTTCAGCAG  
CTGCATACAGGACGCTCCCTCAGGTGCTGGAGGAACATCCAGTTCACAAAGCCCCATCTCTTCTCTCT  
GGAGCCAGAGCCTGCGGTGGAATCAAGTCCAACCTGAAACATCAGAACAAATAAGAGAGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233837 representing NM\_001252678  
Red=Cloning site Green=Tags(s)

MLGKIHLLLEGDLDKAIEVYKKAVEFSPENTELLTTLGLLYLQLGIYQKAFEHLGNALTYDPTNYKAILAA  
 GSMMQTHGDFDVALTKYRVVACAVPESPLWNNIGMCFFGKKKYVAAISCLKRANYLAPFDWKILYNLGL  
 VHLT MQQYASAFHFLSAAINFQPKMGEL YMLLAVALTNLEDIENAKRAYAEAVHLDKCNPLVNLNYAVLL  
 YNQGEKKNALAQYQEMEKVSL LKDNSSLEFDSEMVEMAQKLGAALQVGEALVWTKPKVDPKSKHQTTST  
 SKPASFQQPLGSNQALGQAMSSAAAYRTLPSGAGGTSQF TKPPSLPLEPEPAVESSPTTETSEQIREK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001252678

**ORF Size:** 1041 bp

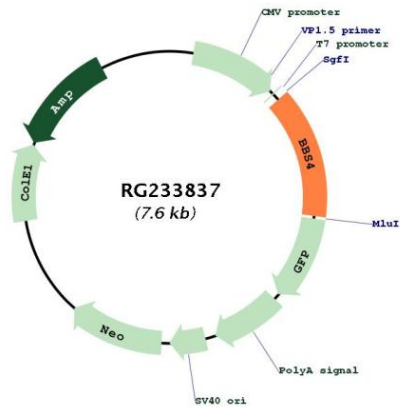
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001252678.1, NP_001239607.1</u>
<b>RefSeq Size:</b>	2468 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	585
<b>UniProt ID:</b>	<u>Q96RK4</u>
<b>Cytogenetics:</b>	15q24.1
<b>Gene Summary:</b>	<p>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. The similar phenotypes exhibited by mutations in BBS gene family members are likely due to the protein's 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 has sequence similarity to O-linked N-acetylglucosamine (O-GlcNAc) transferases in plants and archaeobacteria and in human forms a multi-protein "BBSome" complex with seven other BBS proteins. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p>

Product images:



Circular map for RG233837