

Product datasheet for SC332212

BBS4 (NM_001252678) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BBS4 (NM_001252678) Human Untagged Clone
Tag: Tag Free
Symbol: BBS4
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332212 representing NM_001252678.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTGGGGAAGATCCACTTGCTGGAGGGAGACTTGGACAAGGCCATTGAAGTCTACAAGAAAGCAGTG
GAGTTCTCACCAGAAAATACAGAGCTTCTTACAACCTTAGGATTACTCTACTTACAGCTCGGCATTTAC
CAGAAGGCATTTGAACATCTTGGCAATGCACTGACTTATGACCCTACCAACTACAAGGCCATCTTGGCA
GCAGGCAGCATGATGCAGACCCACGGGGACTTTGATGTTGCCCTACCAAATACAGAGTTGTGGCTTGT
GCTGTTCCAGAAAGTCTCCACTCTGGAATAACATTGGAATGTGTTCTTTGGCAAGAAGAAATATGTG
GCGGCCATCAGCTGCCTGAAACGAGCCAACTACTTGGCACCCCTCGATTGGAAGATTCTGTATAATTTG
GGCCTTGTCCATTTGACCATGCAGCAGTATGCATCAGCTTTTCATTTTCTCAGTGCAGCCATCAACTTC
CAGCCAAAGATGGGGGAGCTCTACATGCTCTTGGCAGTGGCTCTGACCAATCTGGAAGATATAGAAAAT
GCCAAGAGAGCCTACGCAGAAGCAGTCCACCTGGATAAGTGTAAACCTTTAGTAAACCTGAACTATGCT
GTGCTGTGTACAACCAGGGCGAGAAGAAGAACGCCCTGGCCCAATATCAGGAGATGGAGAAGAAAGTC
AGCCTACTCAAGGACAATAGCTCTCTGGAATTTGACTCTGAGATGGTGGAGATGGCTCAGAAGTTGGGA
GCTGCTCTCCAGTTGGGGAGGCACTGGTCTGGACCAACCAGTTAAAGATCCCAAATCAAAGCACCAG
ACCACTTCAACCAGCAAACCTGCCAGTTTCCAGCAGCCTCTGGGCTCTAATCAAGCTCTAGGACAGGCA
ATGTCTTCCAGCAGCTGCATACAGGACGCTCCCCTCAGGTGCTGGAGGAACATCCCAGTTCACAAAGCCC
CCATCTCTCCTCTGGAGCCAGAGCCTGCGGTGGAATCAAGTCCAACCTGAAACATCAGAACAATAAGA
GAGAAATAA
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Restriction Sites: SgfI-MluI
ACCN: NM_001252678
Insert Size: 1044 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001252678.1](#)

RefSeq Size: 2468 bp

RefSeq ORF: 1044 bp

Locus ID: 585

UniProt ID: [Q96RK4](#)

Cytogenetics: 15q24.1

MW: 38.3 kDa

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. 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]

Transcript Variant: This variant (2) lacks an internal exon and initiates translation at a downstream, in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1.