

Product datasheet for **SC127001**

BBS4 (NM_033028) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS4 (NM_033028) Human Untagged Clone
Tag:	Tag Free
Symbol:	BBS4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_033028 edited
AAATGGCTGAGGAGAGAGTCGCGACGAGAACTCAATTTCTGTATCTACTGAGTCTCAA
AACCCCGCAGAAAAAGCTCCAGAGTTTCTATTTTGGAGAAGCAGAACTGGTTGATTC
ATCTTCATTATATCCGGAAAGATTATGAAGCCTGCAAGGCTGTTATCAAAGAAGCAGCTC
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GTGCTGATAACCTCAAGCAGGTGGCCAGATCTTTATTTCTTTTGGGAAAACATAAAGCTG
CCATTGAAGTATATAATGAAGCAGCTAACTCAACCAGAAAGATTGGGAGATCAGCCATA
ACCTAGGAGTTTGTACATATACCTGAAGCAGTTCAACAAGGCACAAGACCAGTTGCACA
ATGCCCTGAATCTTAATAGGCACGATCTGACTTATATAATGCTGGGGAAGATCCACTTGC
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TCTTTGGCAAGAAGAAATATGTGGCGGCCATCAGCTGCCTGAAACGAGCCAACTACTTGG
CACCTTCGATTGGAAGATTCTGTATAATTTGGGCCTTGCCATTTGACCATGCAGCAGT
ATGCATCAGCTTTTCAATTTCTCAGTGGCCATCAACTTCCAGCCAAAGATGGGGGAGC
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CACTATGTGCTCTTTTGAATAAAGATTACATATCATCATTCTTTGGGAAAAATTGTT
ATTCAGG
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033028 unedited</p> <p>TACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGAATGGCTGAGGAGAGAGTCCG GACGAGAACTCAATTTCTGTATCTACTGAGTCTCAAAAACCCCGGCAGAAAAAGCTCC AGAGTTTCTATTTTGGAGAAGCAGAAGCTGTTGATTCATCTTCATTATATCCGGAAGA TTATGAAGCCTGCAAGGCTGTTATCAAAGAACAGCTTCAAGAGACTCAGGGATTGTGTA ATATGCTATCTATGTCCAAGCATTGATATTTTCGCTAGAAGGAAATATCCAAGAATCCCT AGAACTTTCCAGACATGTGCAGTTCTTAGTCCCTCAGAGTGTGATAACCTCAAGCAGGT GGCCAGATCTTTATTTCTTTTGGAAAACATAAAGCTGCCATTGAAGTATAAATGAAGC AGCTAAACTCAACCAGAAAGATTGGGAGATCAGCCATAACCTAGGAGTTTGTACATATA CCTGAAGCAGTTCAACAAGGCACAAGACCAGTTGCACAATGCCCTGAATCTTAATAGGCA CGATCTGACTTATAATGCTGGGAAGATCCACTTGCTGGAGGGAGACTTGGACAAGGC CATTGAAGTCTACAAGAAAGCAGTGGAGTTCTCACCAGAAAATACAGAGCTTCTTACAAC TNTANGATTACTCTACTACAGCTCGGCATTTACCAGAAGGCATTTGAACATCTTGGGCA TGCAGTACTTATGACCCTACCAACTACAGGCCATCTTGGCAGCAGGCAGCATGATGCA AACCACGNGACTNTGATGTTGCCCTCACCAATACANGAGTGGGCTTGTGCCTGTCANAA AGTCCCTCCTGNNATACATTGGATGGTGTCTTTGGCAGAAGAATATGTGGCGGCAT CAGCTGTGAACGAGCCACTACTGGCACCTCGATGGAAGATCTGATATTTGGCCCTGTC CATTGACCTN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033028 unedited</p> <p>GCGGCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTAGGTTCTTTTAGGTTTTTAT TATGATCTCTTGTTTTTATACCCTGATAACAATTTTCCCCAAAGGAATGATGATATGTA ATCTTTATTCTAAAAGGACACATAGTGTATTGATAGCATCTGGTCAGTGGTTATCACTG ACTATCTTCAATAACAATTACTCATCTAAGAACTCTTCCTTTTTCTTAAAATCGTTG GTGCTGATCCAGACAAGCCCTGGGCTGCTGCTCCTCATCCTGATAGGATCTAGCTCTAG ACTGACCCTCTCAAGAACAAAATACAGGGAGGGACTTGTCTGGATTCCCTTTGGGCAA ATGCAGCTGCAATACTCAGCAGGCTTGGCCTCACTTCCAGGGCTTTTGTTTTTTTCTT TTAAATGTATACTATTAAGTTGGATTATTAATCTAATATTTGNGTTTGCCTTGGGGACT AATAAACCTCACAACTGAGGATCACCTCAGTTAAACCAAGGCTTTGTCATCACAGAGCT ACTCAGCAGAGGCTGTCTCAGCTGTTCCCTTGAACCTAAGGAAGGAGTCAAGTCAAGTCA GAGAAAAGTCCTTTTGAAGCAGACAGCATCATGTACCTTGTGACTCAGCTACCATACA TAAAGCCTTAAGCCCTTCTTGGCAGTTCTTAAAGGAACCGTGGTCTCTTTTCACTTTTC CCTGGCTAATGGGCACGAAAAGGTTCCGACCTCAAATGCCAAACCCAGGAGTTAGAAG AACTTTAGCTAAATGCTGGCCCCCCCCAAACCCACCTGGATCCTGGGGGNGCCACCTTG TTTTGCCTGACATGGCACCTTCTAACCCCCCAATCCTGCCCAAAAAACCTATTGGGGG GACCAATTCAACCCTATCCCTTATCGGTCCAGGTTAACGGGCCGATCCCCCCCGCT TCGCCTCAAAAAAATGGGCTCTTAAACCGAATCCCCCCACCGAGGGAACCTTGT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_033028
Insert Size:	2400 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<ol style="list-style-type: none">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:	<u>NM_033028.2</u> , <u>NP_149017.2</u>
RefSeq Size:	2482 bp
RefSeq ORF:	1560 bp
Locus ID:	585
UniProt ID:	<u>Q96RK4</u>
Cytogenetics:	15q24.1
Domains:	TPR
Gene Summary:	<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> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>