

Product datasheet for **SC108312**

BBS10 (NM_024685) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS10 (NM_024685) Human Untagged Clone
Tag:	Tag Free
Symbol:	BBS10
Synonyms:	C12orf58
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_024685, the custom clone sequence may differ by one or more nucleotides

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ATGTTAAGTTCTATGGCCGCTGCAGGGTCTGTGAAGCGCGCTTGCAGGTGGCCGAGGTGCTGGAAGCCA
TCGTGAGCTGCTGCGTGGGGCCCGAGGGACGGCAAGTTTTGTGTACGAAGCCCACTGGCGAGGTGCTTCT
CAGCCCGAATGGAGGCCCTCCTGGAGGCGCTACACTTAGAGCATCCCATAGCCAGGATGATAGTGGAC
TGTGTTCCAGTCATCTCAAAAAACAGGAGATGGTGCAAAAAACATTTATTATCTTTCTTTGCCATTTGC
TTAGAGGACTTCATGCAATCACAGACAGAGAAAAGGATCCTTTGATGTGTGAAAACATTCAAACCCATGG
AAGGCATTGAAAAATTGTTCTCGGTGGAAATTTATTTCCAGGCTCTCCTAACGTTTCAGACACAAATA
TTAGACGGTATTATGGACCAGTACCTAAGTAGACACTTTTTGTCTATCTTTTCGTCTGCTAAAGAGAGAA
CATTGTGTAGGAGCTCTTAGAGTTGCTCTTAGAAGCATACTTTTGTGGAAGAGTGGGAAGAAATAATCA
TAAATTTATTTACAGTTGATGTGTGACTACTTTTTCAAGTGTATGACTTGTAAGTGGGATTGGTGTA
TTTGAGTTAGTGGATGACCATTTTGTAGAGTTGAATGTTGGTGTCACTGGCCTTCTGTTTCAGATTCCA
GGATCATAGCTGGTCTTGTGCTCAGAAAGATTTTTCTGTGTACCGCCAGCAGATGGTGACATGCGAAT
GGTGATAGTAACAGAAACCATTACGCTCTTTTTCCACTTCTGGATCAGAGTTTATTCTAAATTCAGAA
GCACAGTTTCAGACATCTCAATTTGGATTATGAAAAAGACAAAAGCAATAATGAAACATCTACATAGTC
AGAATGTAAAATTGCTCATATCTAGTGTGAAACAACCAGATTTAGTTAGTTATTATGCAGGGGTGAATGG
CATATCAGTGGTTGAGTGTTCATCAGAGAAGTTTCTTTATCCGGAGGATCATTGGTCTTTCTCCA
TTTGTACCACCACAGGCCTTTTCGCAGTGTGAAATACCTAACACTGCTTTGGTGAATTTTGTAAACCTC
TTATCCTTAGATCCAAAAGATATGTTTCATCTAGGCTTGATAAGCACATGTGCATTTATACCACACTCTAT
AGTTCCTTTGTGGACCAGTGCATGGTCTCATTGAACAACATGAGGATGCTTTACATGGAGCACTTAAATG
CTTCGGCAATTATTTAAAGACCTTGATCTAAATTACATGACACAAACCAATGACCAAAATGGCATTCAA
GTCTTTTTATTTATAAGAACAGTGGAGAAAGTTATCAAGCACCAGATCCTGGTAATGGCTCAATACAAAG
GCCTTATCAGGACACAGTTGCAGAGAACAAGATGCATTGAAAAAACTCAAACATATTTAAAAGTACAT
TCTAATTTGGTAATTCAGATGTAGAATTAGAAACATATATTCGTATTCAACCCCCACACTGACACCAA
CAGATACATTCAAAACAGTTGAAACGCTGACATGTTTGTCTTTGGAAAGAAACAGGCTAACTGATTATTA
TGAACCATTACTCAAGAACAATTCAGTCTTATTCAACAAGGGGAAATAGAATAGAAATTTCTTACGAA
AATTTACAGGTCACAAATATTACTAGAAAGGGAAGCATGTTACCAGTGAGCTGTAAGTTACCGAATATGG
GTACTTCCAGAGTTACCTTTCTCATCTATGCCAGCTGGTGTGTTTTGCCAGTAGGTGTAATTTTGA
GATCTTGTACATTACTATCTTCTCAATATGCCAAAAATGCCATCAATCAGAAGAAACCATGGTTAGT
ATGATAATAGCTAATGCACTTTTAGGCATTCCTAAAGTCCTTTATAAATCTAAAACAGGAAAGTACAGCT
TTCCACATACATATATAAGAGCTGTCCATGCAGTGCAAACCAATCAACCTTGGTAAGCAGTCAGACAGG
TTTGGAATCAGTAATGGGTAATACCAGCTACTAAGTTCAGTTCTTCAAGTGTGACAAAAATATTAACC
ATTGACATGGTAATCACTGTAAAGACACCCTCAGAAAGTTCACAATCAAGATTCAGAAGATGAAGTAA
AA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_024685 unedited</p> <pre> ACATTTTGTATACGACTCACTATAGGCGGCCGCGAAATTCGCACGAGGNAAAAAGTTATC AAGCACC AAAATCCTGGTAATGGCTCAATACAAAGGCCATTATCAGGACACAGTTGCAGAGA ACAAAGATGCATTGNGAAAAAATCAAACATATTTAAAAGTACATTCTAATTTGGTAATT CCAGATGTAGAATTAGAAACATATATCCGTATTCAACCCCCACACTGACACCAACAGAT ACATTTCCAAACAGTTGAAACGCTGACATGTTTGTCTTTGGAAAGAAACAGGCTAACTGAT TATTATGAACCTTACTCAAGAACAATTCCTGCTTATTCAACAAGGGGAAATAGAATA GAAATTTCTTACGAAAATTTACAGGTCACAAATATTACTAGAAAGGGAAGCATGTTACCA GTGAGCTGTAAGTTACCGAATATGGGTACTTCCCAGAGTTACCTTTCTCATCTATGCCA GCTGGTTGTGTTTGGCAGTAGGTGGAATTTTGAGATCTTGTTACATTACTATCTTCTC AATTATGCCAAAAAATGCCATCAATCAGAAGAAACCATGGTTAGTATGATAATAGCTAAT GCACTTTTAGGCATTCCCAAAGTCTTTATAAATCTAAAACAGGAAAGTACAGCTTTCCA CATACATATATAAGAGCTGTCCATGCACTGCAAACCAATCAACCCTTGGTAAGCAGTCAG ACAGGTTTGGAAATCAGTAATGGGTAATACCAGCTACTAACTTCACTTCTCAGTGTGTTG ACAAAATATTAACCATGACATGGTATCACTGTTAAGAGACACCTCANAAGTCACATCAA GATCAGAAAGATGACTATACATCAGAAAGTTTATTAACAACTTTTCTACTCAGCCAGT AAGCAGTCTGTGACACTGGTCTAAATCAGTCATCTACTAGGAATAGCG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_024685 unedited</p> <pre> NTCACTTGGACCCGCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTAAAAAATC AGAATTACATTTAATATAAAAAATTTTGATATTATAGTTTTTAAAATACATTAGTCAACA CTTATTCAACTATAATTAAGTTTTTTTTTCTTCCAGTCAATCCCAAGTAAGAACTGTTGA ATAAGTAAACTGGAAACATGTATTTAAAGGAATGAATTAAGATAACACTGTTTTATTCA ACAAGCACTTCTGAATACTTGGAGTAAATACAGCACTGTTTTGGGTATTACAGAGAACTG ATAAAGGTAAAAAACAATGCCCCTTGCCCATGATAACATGCCTCATATTTTACATCGCC ACGCCCTCTAAATATGACCATTGCGCCTGCCCTCTCCCAACCCACCCACCTCCCCCCC CGGCCACCCCTTCCCATCTCCCCCGCTCCACTCTCCGCCCTGCCACCCCGCT TCCCGTATCCCCGCTATCCCCCGCCTTGCCCTCCGCCGACCCCAACCTCCACCACTA TTCTTACCACCTCTCCCTCCCCCTCTCCATCCTGCCCTCTAAATCCCGTATCACCC GTGCTCCACATCCATCATCACCCCCCCCTCCGCCGCCCACTCCATCGGACTCGCC ACCTGTATAGGCGCTCCCCCTCCACCTTCTCCCTCACCCGCAATTCCCCCAATTTT CCCACCCCGCCCCCTCGCCCCGCTCAGTCTCCACTCCACCATGTCTTCCGCTCGC ACTCAGCCCCGAAACACTACGCCACAACCACCCACTACCGATCAACCCCTACCCC CACACTTCCCTCTCCGCCGCTCTTGATCTCGACCTTACCCCCACACCCCTCAGC TTGTACCGACGCTCTGCGACCTCTACCTCCTTCTTCTTTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_024685
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_024685.1](#), [NP_078961.1](#)

RefSeq Size: 3583 bp

RefSeq ORF: 456 bp

Locus ID: 79738

UniProt ID: [Q8TAM1](#)

Cytogenetics: 12q21.2

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 progressive retinal degeneration, 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 is likely not a ciliary protein but rather has distant sequence homology to type II chaperonins. As a molecular chaperone, this protein may affect the folding or stability of other ciliary or basal body proteins. Inhibition of this protein's expression impairs ciliogenesis in preadipocytes. Mutations in this gene cause Bardet-Biedl syndrome type 10. [provided by RefSeq, Jan 2010]