

Product datasheet for **SC121909**

BBS7 (NM_018190) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS7 (NM_018190) Human Untagged Clone
Tag:	Tag Free
Symbol:	BBS7
Synonyms:	BBS2L1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_018190, the custom clone sequence may differ by one or more nucleotides

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ATGGATCTGATTTTAAACCGAATGGATTATCTGCAGGTGGGAGTAACATCTCAGAAGACTATGAAGCTAA
TTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCATGATGGGGTAGTTATGTGCTT
TGGCATGAAGAAAGGAGAAGCAGCAGCAGTGTTCAGACTTTACCCGGGCCGAAGATTGCAAGGCTGGAA
CTGGGAGGGGTTATCAACACACCTCAGGAGAAAATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTCA
CAAAAAGAGGAAAACAGTTCCTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATC
TGGCTCAGACCTCTTTCTCAGTGCAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTAT
TACCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTCCAGTGAAAGATTATCTCGTATCACACCTG
TATTGGCTGCCAGGACAGAGTCTCAGAGTTTACAGGGATCTGATGTGATGTATGCAGTTGAAGTTCC
TGGACCCCTACTGTCTTAGCACTACACAATGGAAATGGCGGTGACTCTGGAGAAGACCTTTTGTGGG
ACATCAGACGGAAAACCTTGCCTTATACAGATTACTACATCAAACCCAGTACGCAAGTGGGAAATTCAAA
ATGAGAAAAAGAGAGGAGGTATTTGTGTATTGACAGCTTTGACATTGTGGGTGATGGGGTTAAAGATTT
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TTTGATCAGATGTTGTCTGAAAGCGTCACATCTATCCAGGGTGGTTGTGTAGGAAAAGACAGCTATGATG
AAATCGTGGTGTCCACATATTCAGGCTGGGTTACAGGTCTGACAAACAGAGCCATTTCATAAGGAAAGTGG
ACCAGGAGAAGAACTAAAAATTAATCAGGAGATGCAGAATAAAATTTCTTCCATTACGGAATGAGTTGGAA
CATTTGCAGTATAAGGTATTGCAGGAAAGAGAGAATTATCAACAGTCTTCTCAATCAAGCAAAGCAAAAT
CAGCAGTACCTTCCTTTGGTATAAATGATAAATTTACACTAAATAAGATGATGCCAGTTACAGCCTTAT
CTTAGAGGTACAGACTGCAATAGATAATGTCTTAATACAGAGTGATGTTCCAATAGATTTACTTGATGTG
GATAAAAATTCGTGTTGTTAGCTTTAGCAGCTGTGATTCTGAGTCAAACGACAACCTCTCTTGGCCA
CTTATCCGGTGCCAGGCAGATACTACAAGGCTGGAACCTCAAGATTCCGCTCAATTGAAGGCCAGTATGGCAC
ACTACAAGCATATGTGACTCCAAGAATCAACCCAAAACCTGTGAGTCCGCCAGTACCCATCAAACCT
CTTTCCTCCATCAAAGAACTCACTTTATTGATCATGACAGACCCATGAATACACTGACCCTAACAGGCC
AGTTCAGTTTTGCTGAAGTTCCTCCTGGGTGGTTTTTTGTCTGCCTGAAGTTCAGAAAAACCTCCAGC
AGGAGAATGTGTGACATTTTACTTTCAGAACACCTTTCTAGATACACAACCTTGAAGTACCTACAGAAA
GGAGAGGGAGTTTTAAATCTGACAACATTTCTACTATCTCCATCCTAAAAGATGTGCTTTCTAAAGAAG
CTACAAAAGGAAAATTAACCTCAACATATCATACGAGATAAATGAAGTATCAGTCAAACACACTTTAAA
GCTAATCCACCCAAAGCTGGAGTACCAGTTGCTTTTGGCTAAGAAAGTGCAGTTAATTGATGCTTTAAAA
GAATTACAGATTCATGAGGAAAATACGAACTTTCTGATACCAGAATATCACTGTATTCTAGAAGGGCAG
ATCACCTACAGGAAGAATACAAAAGCAACCTGCACATCTTGAAGACTCTATGGTTAG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_018190 unedited
TACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGGTTCGGAGGCCTGCGGGCCC
GAAGCCTCTGTCCCTCCTGTTCTTGTCCGGCGCTGCTTAGCCCTCCGCGTAGTCATCAT
GGATCTGATTTTAAACCGAATGGATTATCTGCAGGTGGGAGTAACATCTCAGAAGACTAT
GAAGCTAATTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCATGA
TGGGGTAGTTATGTGCTTTGGCATGAAGAAAGGAGAAGCAGCAGCAGTGTTCAGACTTT
ACCCGGGCCGAAGATTGCAAGGCTGGAACCTGGGAGGGTTATCAACACACCTCAGGAGAA
AATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTACAAAAAGAGGAAAACAGTTCTC
CTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATCTGGCTCAGACCT
CTTTCTCAGTGAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTATTA
CCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTCCAGTGAAAGATTATCTCGTAT
CACACCTGTATTGGCCTGCCAGGACAGAGTCTCAGAGTTTTACAGGGATCTGATGTGAT
GTATGCAGTTGAAGTTCTTGGACCCCTACTGTCTTAGCACTACACAATGGAAATGGCGG
TGACTCTGGAGAGACCTTTTGTGGGACATCAGACGAAAACCTTGCCTTATACAGATT
ACTACATCCCCAACAGTACGCAGTGGGAAAATTCAAATGAGAAAAAGAGAGAGGTATNT
TGTGTATTGACAGCTTTGACATTGTGGTGGATGGGNNNTAAGATTAAGTTGTTGGAGAGAG
ACNGATGGTGGAAATGTATAGTTTGATATGCAATGAACTGTCTACGATGATCAGAGTGN
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_018190 unedited ATGGACCGCGGCACGCTATCTAGTATCGAGTTTTTTTTTTTTTTTTTTACTGTATATCCT TTATTAATTTTTGCCTTAAAAATTTAAATGCTGCATTTTTATAATTCACAATAGCAACA AAACATGACAATTATTTGTGTGAAATACAGTCTAAGCTCTACAGGTTTCATAGATTACATT CATTTTATACCAGTTTTGTTTCATATATATAGATTAATTCATCACAGTATACTTATTTCTT AATATACTTGCATTTTATCAAGTAAAAGAATTAATATTAAGTAGCTTGACAAAATAC AGAAATATTCTGTGCAATAAATTTGTTGTCAACTGATTCATGACTGGTTCATGAATCATG ACTGATGTAATCTTTTTATCTTTCTGCCAGCTTCTCTTACATGATCCTTGGAATAGC CAGTTGAAAAGAATATGGCAAGGTATTCTAGAATGGTCCACTAACCATAGAGTCTTTCA AGATGTGCAGGTTGCTTTTTGTATTCTTCTGTAGGTGATCTGCCTCTTCTAGAATACAG TGATATTCTGGTATCAGAAAGTTCGTATTTCCCTCATGAATCTGTAATCTTTTAAAGCA TCAATTAAGTCACTTTCTTAGCCAAAAGCAACTGGTACTCCAGCTTTGGGTGGATTAGC TTTAAAGAGTGTGACTGATACTTCATTTATCTCGTATGATATGTTGAGGTTAATTCTC CTTTCTGTAGCTTCTTTAGAAAGCACATCTTTAGGATGGAGATAGTAGAAATGTTGCA GATTAATAACTCCCTCTCCTTTTCTGTAGGTACTTTCAAGTTGTGTATCTAGAAAGGTGG NTCTGAAGTAAATGCACACATTCTNCTGCTGGNAGTTTTNCTGGNAACTTCAGCAGACA NNAACACCCAGGAGTGAACANCAAACTGNACTGGCCTGTTAGGTCATGTATTCATGG GTCTGNATGATCATAAGTGAGTACTTGTGAGTAAAAAGTTTGTGTACTGGCGGAC TGACG
Restriction Sites:	NotI-NotI
ACCN:	NM_018190
Insert Size:	2620 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).
RefSeq:	NM_018190.2 , NP_060660.2
RefSeq Size:	2606 bp
RefSeq ORF:	2019 bp
Locus ID:	55212
UniProt ID:	Q8IWZ6

Gene Summary:

This gene encodes one of eight proteins that form the BBSome complex containing BBS1, BBS2, BBS4, BBS5, BBS7, BBS8, BBS9 and BBIP10. The BBSome complex is believed to recruit Rab8(GTP) to the primary cilium and promote ciliogenesis. The BBSome complex assembly is mediated by a complex composed of three chaperonin-like BBS proteins (BBS6, BBS10, and BBS12) and CCT/TRiC family chaperonins. Mutations in this gene are implicated in Bardet-Biedl syndrome, a genetic disorder whose symptoms include obesity, retinal degeneration, polydactyly and nephropathy; however, mutations in this gene and the BBS8 gene are thought to play a minor role and mutations in chaperonin-like BBS genes are found to be a major contributor to disease development in a multiethnic Bardet-Biedl syndrome patient population. Two transcript variants encoding distinct isoforms have been identified for this gene.[provided by RefSeq, Oct 2014]

Transcript Variant: This variant (2) differs in the 3' UTR, and coding region compared to variant 1. The resulting isoform (b) maintains the reading frame but is shorter at the C-terminus, compared to isoform a.