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Product datasheet for SC127473

BBS7 (NM_176824) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS7 (NM_176824) Human Untagged Clone
Tag:	Tag Free
Symbol:	BBS7
Synonyms:	BBS2L1
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC127473 sequence for NM_176824 edited (data generated by NextGen Sequencing)

ATGGATCTGATTTTAAACCGAATGGATTATCTGCAGGTGGGAGTAACATCTCAGAAGACT
ATGAAGCTAATTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTTATTGGAGATCAT
GATGGGGTAGTTATGTGCTTTGGCATGAAGAAAGGAGAAGCAGCAGCAGTGTTCAAGACT
TTACCCGGGCCGAAGATTGCAAGGCTGGAACTGGGAGGGGTTATCAACACACCTCAGGAG
AAAATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTCACAAAAAGAGGAAAACAGTTC
CTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATATCTGGCTCAGAC
CTCTTTCTCAGTGCAAGTTACATCTATAACCATTATTGTGACTGCAAAGACCAACATTAT
TACCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTTCCAGTGGAAAGATTATCTCGT
ATCACACCTGTATTGGCCTGCCAGGACAGAGTGCTCAGAGTTTTACAGGGATCTGATGTG
ATGTATGCAGTTGAAGTTCCTGGACCCCCTACTGTCTTAGCACTACACAATGGAAATGGC
GGTGACTCTGGAGAAGACCTTTTGTTTGGGACATCAGACGGAAAACTTGCGCTTATACAG
ATTACTACATCCAAACCAGTACGCAAGTGGGAAATTCAAAATGAGAAAAAGAGAGGAGGT
ATTTTGTGTATTGACAGCTTTGACATTGTGGGTGATGGGGTTAAAGATTTACTTGTTGGG
AGAGATGACGGAATGGTGGAAGTGTATAGTTTTGATAATGCAAATGAACCTGTTCTACGA
TTTGATCAGATGTTGTCTGAAAGCGTCACATCTATCCAGGGTGGTTGTGTAGGAAAAGAC
AGCTATGATGAAATCGTGGTGTCCACATATTCAGGCTGGGTTACAGGTCTGACAACAGAG
CCCATTCATAAGGAAAGTGGACCAGGAGAAGAACTAAAAATTAATCAGGAGATGCAGAAT
AAAATTTCTTCCTTACGGAATGAGTTGGAACATTTGCAGTATAAGGTATTGCAGGAAAGA
GAGAATTATCAACAGTCTTCTCAATCAAGCAAAGCAAAATCAGCAGTACCTTCCTTTGGT
ATAAATGATAAATTTACACTAAATAAAGATGATGCCAGTTACAGCCTTATCTTAGAGGTA
CAGACTGCAATAGATAATGTCTTAATACAGAGTGATGTTCCAATAGATTTACTTGATGTG
GATAAAAATTCTGCTGTTGTTAGCTTTAGCAGCTGTGATTCTGAGTCAAACGACAACTTC
CTTCTTGCCACTTATCGGTGCCAGGCAGATACTACAAGGCTGGAACTCAAGATTCGCTCA
ATTGAAGGCCAGTATGGCACACTACAAGCATATGTGACTCCAAGAATTCAACCCAAAACC
TGTCAGGTCCGCCAGTACCACATCAAACCTCTTTCACTCCATCAAAGAACTCACTTTATT
GATCATGACAGACCCATGAATACACTGACCCTAACAGGCCAGTTCAGTTTTGCTGAAGTT
CACTCCTGGGTGGTTTTTTGTCTGCCTGAAGTTCCAGAAAAACCTCCAGCAGGAGAATGT
GTGACATTTTACTTTCAGAACACCTTTCTAGATACACAACTTGAAAGTACCTACAGAAAA
GGAGAGGGAGTTTTTAAATCTGACAACATTTCTACTATCTCCATCCTAAAAGATGTGCTT
TCTAAAGAAGCTACAAAAAGGAAAATTAACCTCAACATATCATACGAGATAAATGAAGTA
TCAGTCAAACACACTTTAAAGCTAATCCACCCAAAGCTGGAGTACCAGTTGCTTTTGGCT
AAGAAAGTGCAGTTAATTGATGCTTTAAAAGAATTACAGATTCATGAGGGAAATACGAAC
TTTCTGATACCAGAATATCACTGTATTCTAGAAGAGGCAGATCACCTACAGGAAGAATAC
AAAAAGCAACCTGCACATCTTGAAAGACTCTATGGCATGATCACTGATCTTTTCATAGAT
AAATTTAAGTTTAAAGGCACCAATGTAAAAACTAAAGTACCCCTTCTATTGGAAATTCTG
GACAGTTATGACCAAAATGCATTGATTTCATTCTTCGATGCAGCATGA

Clone variation with respect to NM_176824.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_176824 unedited
AATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGCGCCTGTGCAGCCCAGGAG
CTAGGCGCGGTAGCTGGGGCTGGCTTTTGAGGGGCGCGGGCAGCCTTCTGACTGGGTCGG
AGGCCTGCGGGCCCGAAGCCTCTGTCCCTCCTGTTCTTGTCCGGCGCTGCTTAGCCCCTC
CGCGTAGTCATCATGGATCTGATTTTAAACCGAATGGATTATCTGCAGGTGGGAGTAACA
TCTCAGAAGACTATGAAGCTAATTCCTGCCTCAAGACACAGAGCTACACAAAAGGTGGTT
ATTGGAGATCATGATGGGGTAGTTATGTGCTTTGGCATGAAGAAAGGAGAAGCAGCAGCA
GTGTTCAAGACTTTACCCGGGCCGAAGATTGCAAGGCTGGAACTGGGAGGGGTTATCAAC
ACACCTCAGGAGAAAATTTTTATTGCTGCAGCATCTGAGATTAGAGGCTTCACAAAAAGA
GGAAAACAGTTCCTCTCCTTTGAAACAAACCTCACTGAAAGCATTAAAGCTATGCACATA
TCTGGCTCAGACCTCTTTCTCAGTGCAAGTTACATCTATAACCATTATTGTGACTGCAAA
GACCAACATTATTACCTTTCTGGGGATAAAATCAATGATGTGATCTGCCTTCCAGTGGAA
AGATTATCTCGTATCACACCTGTATTGGCCTGCCAGGACAGAGTGCTCAGAGTTTACAGG
GATCTGATGTGATGTATGCAGTTGAAAGTCCCTGGACCCCCTACTGTCTTAGCACTACAC
AATGGAAATGGCNNGTGACTCTGGNAGAGAACCTTTTGTTTGGGACATCAGACGGGAAAC
TTTGCGCTATACAGATTACTACATCCAAACCCAGTACGCAGTGGGAAATTCAAATGAGAA
AGAGAGGAGGATTTTGTGTATTGCAGCTTGACAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_176824 unedited
NTTTGCTCTGGAACCGCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTCATCT
TAACATTTAGGCGTTTATTCATAGTAACCAGAAATTGTGTTTTATGCTTTTTATTTTTCC
TAATGAAGATGCAATTAATTTAAGATGGCACCTTGAACTACTGTTGATATATATAATAAA
TAGCAGTGCATTACAAAATATTCAAATACAGTCATTAATTTTTTTCTATTTTTCCCCAAG
CTGTGGCAACCAACAAAAAACACAATGACGTTCTAGTGACCTAGATATAATTATGTTCCT
TTCAGAAGTAAAGTTTTTTAAACATAGTAAAAACAATATGACCTTATTAAAATAAAACTC
TCTTAACTATACGTGCCTTTAACAAATTTTTATATTTATATATAAATATAAGAATATACA
AAGCTTGCACATAACTAATAAGTATAATAGCATATCATTAAGAAGCACTGTTTTCTAAAA
AATTCGTGAGTCTGCCCTTCTTGAAACATAAAGCTTATTTTCCATTATCTGTATGCCATT
TTAAAACCTTTCAATATTCCCTTGAAATTAATAAATATGAATTAAGATTAATGCACAAAA
CTTCTGTAGCCTTAATGTCATATATGATAAAAAGAGATCTAGAAGATACTAGTGTAGGAA
AATCTAAGATGGCATCACTATTTCTGCACTCTTCACTTGAAGCACGCTGAATAGCTCCAC
TGGTTACAGCATGTCTAATTAAGATCCCCGACTCTGTGTAAGCTCTTCTTATTTCCTGGG
CTACATTTATAGCACTGAGCCAAGTCCAGCATTTCCACAAACTGCAGCAGAGTCATAAAA
CACTACAAGCAAAAGGAAATATCAGTGCAAATCATCCCTATCTNCTAGAAAAAACATTGG
NTAGGTTATTTCCACTAGCTGGNCACATACATAGTAACCAGAACACAAGNCAGTTACAGT
NNCTTGGGA

Restriction Sites: NotI-NotI

ACCN: NM_176824

Insert Size: 3750 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_176824.1, NP_789794.1
RefSeq Size:	3718 bp
RefSeq ORF:	2148 bp
Locus ID:	55212
UniProt ID:	Q8IWZ6
Cytogenetics:	4q27
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 (1) represents the longer transcript, and encodes the longer isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.