

## Product datasheet for **SC126933**

### **BBS12 (NM\_152618) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	BBS12 (NM_152618) Human Untagged Clone
Tag:	Tag Free
Symbol:	BBS12
Synonyms:	C4orf24
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC126933 sequence for NM\_152618 edited (data generated by NextGen Sequencing)

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ATGGTGATGGCTTGCAGAGTCGTAAACAAAAGAAGACACATGGGACTTCAACAACCTTCA
TCATTCGCGGAAACAGGAAGAACCTTCCCTAGGCCCACTAAAATCATCAAATTTATTATA
GATGAAGAATGTCATGAAAGTGTATTAATCAGTTCAACAGTAAGGCTTCTTGAAAGTTG
GATTTAACCAGTGCAGTGGGACAACCTTCAATGAAGCAGTTCAAGCACAAAACAACACA
TATAGAACTGGAATCAGTACTCTTTTGTGTTGTTGGTGGTGGAGCAGTGCAGTTGAA
GAATGTCTTCATCTTGGTGTCCCAATTTCCATAATAGTATCAGTAATGTCAGAAGGCTTA
AACTTTTGTAGTGAAGAGGTAGTTTCTCTTCATGTACCTGTTCACAATATATTTGACTGT
ATGGACAGCACAAAACATTTTCTCAACTTGAAACATTTAGTGTAAAGTTGTGTCCTTTT
CTACAGGTCCTTCAGATACTGATTTGATAGAGGAATTGCATGGTCTCAAAGATGTTGCC
TCTCAAACACTGACCATTTCCAACCTTTCTGGGAGACCTCTAAATCATATGAATTATTT
AAACCTCAGACAAAGGTTGAAGCAGATAACAACACATCACGAACCTGAAAAACAGCCTG
CTTGACAGATACCTGCTGCAGACAGTCAATACTAATCCACAGTAGGCATTTTAATAGGACA
GATAATACTGAAGGGTAAGCAAACCAGATGGATTTCAAGAACATGTTACAGCTACTCAC
AAAACCTACAGATGTAATGATTTGGTAGAGTTGGCAGTAGGCTTGAGTCATGGAGATCAC
AGCAGCATGAAGTTAGTGAAGAAGCAGTACAGCTGCAATATCAGAATGCTTGTGTGCAA
CAAGGCAACTGTACAAAACCATTTATGTTTGACATTTCAAGAATTTTCACTTGCTGTCTA
CCAGGCTTACCTGAAACTTCTTCTGTGTTTGTCCAGGATATATCACTGTTGTGTCAGTA
TCTAATAATCCTGTGATCAAGGAATTGCAGAATCAGCCTGTGCGAATAGTTCTCATTGAG
GGTGACCTCACAGAGAATTACCGCCACCTGGGATTTAATAAGTCTGCAAAATTTAAAACA
GTATTAGATAGCATGCAGCTTCAAGAAGACAGCTCAGAAGAAGTGGGCAAAATCACGTG
TTACAGGTGTTAATCCAGTTCAAGGTGAACCTTGTCTGGTACAAGGAAATGTGTCCGAA
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AATGAAGATTGTGTTGGCAACGGGGTCTGTGTGACCTTCTGGAGAAGCAGCCCTTTGGAT
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ACATGTGCCTATCGTTTGTATTATGCTCTAAAAGAGGAAAAGGTCTTCTTGGAGGTGGT
GCAGTTGAATTTTGTGCTTAGCTGTCTTCATATTCTTGCAGAGCAATCTCTGAAAAAA
GAAAACCATGCCTGCTCAGGGTGGCTGCATAATACTTCTCTTGGCTGGCTTCATCTCTG
GCAATATACAGACCAACTGTGCTTAAATTCCTGGCAAATGGATGGCAGAAATACCTTTCA
ACTCTCCTATATAACACTGCCAATTACTCATCAGAATTTGAAGCCAGCACATACATTCAA
CATCATCTGCAGAATGCCACAGACTCTGGCTCTCCTTCATCTTACATCTTGAATGAATAT
AGTAAACTAAATAGTAGAATTTTAAATTCAGACATTTCAAATAAACTGGAGCAGATTCGG
AGAGTTTATGACGTTGTTACACCAAAGATTGAGGCGTGGCGCCGAGCATTGGATTTAGTA
TTGTTAGTACTTCAGACAGACAGTGAATAAATTACTGGACATGGACACACACAGATAAAT
TCACAGGAATTAACGGGCTTTCTATTTTGTAG

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Clone variation with respect to NM\_152618.2  
 1157 g=>a;1380 g=>c;1399 g=>a;1410 c=>t;1872 a=>g

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_152618 unedited</p> <pre>TCAGATTTTGTAAACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGGGAAACT GGGCTCCCTAGCCCTGGCGTTTTTGGTGTGCTGTCCCAGCCAGAATCGCGTCTGGCCGG TGGGAAGCCGGAACTCCAGCCCCTGTAGGAGAGGAGAAAGGAGCGAGATCATGATACA TGGTGATGGCTTGAGAGTCGTAACAAAAGAAGACACATGGGACTTCAACAACCTTCAT CATTCCGGGAAACAGGAAGAACCTTCTAGGCCCAAAAATCATCCAAATTTATTATAG ATGAAGAATGTCATGAAAGTGTATTAATCAGTTCACAGTAAGGCTTCTTGAAAGTTTGG ATTTAACCAAGTGCAGTGGGACAACCTTCTCAATGAAGCAGTTCAGCACAACAAACACAT ATAGAAGTGAATCAGTACTCTTTTGTCTTGTGGTGCTGGAGCAGTGCAGTTGAAG AATGTCTTCATCTTGGTGTCCCCATTTCCATAATAGTATCAGTAATGTCAGAAGGCTTAA ACTTTTGTAGTGAAGAGGTAGTTTCTTTCATGTACCTGTTTCAATATATTTGACTGTA TGGACAGCACANAACATTTTCTCAACTGAAACATTTAGTGAAGTTTGTGCTTTTTTCT TACAGGTCCTTTCAGATACTGATTTGATAGAGGAATTGCATGGTCTCAAAGATGTGCCT CTCAAACACTGACCATTTCCAACCTTTCTGGGAGACCTTAAATCATATGAATTATTTA AACCTCAGACAAGGTTGAAGCAGATAACAACACATCACGAACTTGAAAACAGCCTGCT TGCAGATACCTGCTGCAGACAGTCAATACTAATCCACAGTAGGCATTNTTATAGGACAGA TATACTGNAGGGGTAAAGCAACCCAGATGGGATCAAGACCATGTACAGCTCCTACAAAA CTTACAGATGTATGATTTGGTAAAGTG</pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_152618 unedited</p> <pre>CTATGAACCGCGCCGCTATCTANAATCAAGTTTTTTTTTTTTTTTTTTTGGCGTCAGTCA AAGCTCCCTTTATTGGGTATAAAGTATAATAAATTGTCCCTTCACTACATTCTGGCTGC CTAATAAAAAGAACCTATTGGTCCCTCCCTTGGAACTTACAGTTGATTGAGTCAAGACCTT GGGGGACAGGACTGAGGTTAATACTGCAGGTTGGCTTCATCCTGCTGCTGTGTCTGATAA TAGCCTGCATTAATTGCTATATGAAACCAATGAACAAATTTGGTACTGACTAAACAACC CGACTGTCAGGTTAATCAAAGTAGCTGATAGAGTGGCATACTCATGTGAAAATTCAAGTT TGGCCAAAACATCTCAGGCTGAGGAGCAAACCTGTTGGAAAAAATCCACTATGGGCT CTGAGTGTCCCTGCATACTTACTGGGTATGTCAAGAATGCAAGGACTTTGTCTTTACCTA TGCCATGTCCCTAGGCTTGTGTTTACACTAAGCTATCTTCAAGTATGGGTAATAACTCCC TTTGGACAAAAGACCAGGATTTTTTGTCTACTATAAAAAGCAGTTAATAACCCAAGCTTAC AACATAACCCACTGTGTGCAGGCTTTCATCATGGGCCCTTTGTGTTCTCCTGTGGGAAC TAGAAAAATGAGGAAGTGAATAAAACCAACATGAAGCTCTGGCTACAGCTTTTGTGTGA GCGATAAGTCCTTTGTTTCTGACCCAAGTGTCTTATGCATTCTGTAGCATCCACGANCA GTTAACAGGCTAACTTGTAGCTTAAAGTAGGGTAAAATCTCAACCATGCCAGGTATTGA CAGACTCACCTATTTTCTTGCATAGCTGCATTTTTAGCCCATGACTTGGCTTCATATT TTATATTAGCTGACTATTTGGAAAATATTTCCAGACTACCCGTACCTC</pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152618
<b>Insert Size:</b>	3800 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_152618.2](#), [NP\\_689831.2](#)

**RefSeq Size:** 3260 bp

**RefSeq ORF:** 2133 bp

**Locus ID:** 166379

**UniProt ID:** [Q6ZW61](#)

**Cytogenetics:** 4q27

**Gene Summary:** The protein encoded by this gene is part of a complex that is involved in membrane trafficking. The encoded protein is a molecular chaperone that aids in protein folding upon ATP hydrolysis. This protein also plays a role in adipocyte differentiation. Defects in this gene are a cause of Bardet-Biedl syndrome type 12. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, May 2010]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Both variants encode the same protein.