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Product datasheet for RG207995

BBS12 (NM_152618) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BBS12 (NM_152618) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BBS12
Synonyms:	C4orf24
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG207995 representing NM_152618
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGATGGCTTGCAGAGTCGTAAACAAAAGAAGACACATGGGACTTCAACAACTTTCATCATTCGCGG
AAACAGGAAGAACTTTCCTAGGCCCACTAAAATCATCCAAATTTATTATAGATGAAGAATGTCATGAAAG
TGTATTAATCAGTTCAACAGTAAGGCTTCTTGAAAGTTTGGATTTAACCAGTGCAGTGGGACAACTTCTC
AATGAAGCAGTTCAAGCACAAAACAACACATATAGAACTGGAATCAGTACTCTTTTGTTTCTTGTTGGTG
CTTGGAGCAGTGCAGTTGAAGAATGTCTTCATCTTGGTGTCCCCATTTCCATAATAGTATCAGTAATGTC
AGAAGGCTTAAACTTTTGTAGTGAAGAGGTAGTTTCTCTTCATGTACCTGTTCACAATATATTTGACTGT
ATGGACAGCACAAAAACATTTTCTCAACTTGAAACATTTAGTGTAAGTTTGTGTCCTTTTCTACAGGTCC
CTTCAGATACTGATTTGATAGAGGAATTGCATGGTCTCAAAGATGTTGCCTCTCAAACACTGACCATTTC
CAACCTTTCTGGGAGACCTCTTAGATCATATGAATTATTTAAACCTCAGACAAAGGTTGAAGCAGATAAC
AACACATCACGAACTCTGAAAAACAGCCTGCTTGCAGATACCTGCTGCAGACAGTCAATACTAATCCACA
GTAGGCATTTTAATAGGACAGATAATACTGAAGGGGTAAGCAAACCAGATGGATTTCAAGAACATGTTAC
AGCTACTCACAAAACTTACAGATGTAATGATTTGGTAGAGTTGGCAGTAGGCTTGAGTCATGGAGATCAC
AGCAGCATGAAGTTAGTAGAAGAAGCAGTACAGCTGCAATATCAGAATGCTTGTGTGCAACAAGGCAACT
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TTCTTGTGTTTGTCCAGGATATATCACTGTTGTGTCAGTATCTAATAATCCTGTGATCAAGGAATTGCAG
AATCAGCCTGTGCGAATAGTTCTCATTGAGGGTGACCTCACAGAGAATTACCGCCACCTGGGATTTAATA
AGTCTGCAAATATTAAAACAGTATTAGATAGCATGCAGCTTCAAGAAGACAGCTCAGAAGAACTGTGGGC
AAATCACGTGTTACAGGTGTTAATCCAGTTCAAGGTGAACCTTGTCCTGGTACAAGGAAATGTGTCCGAA
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TCAAAGAAGATAGGTTCTGGACATGTGCCTATCGTTTGTATTATGCTCTAAAAGAGGAAAAGGTCTTCCT
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GACCAACTGTGCTTAAATTCCTGGCAAATGGATGGCAGAAATACCTTTCAACTCTCCTATATAACACTGC
CAATTACTCATCAGAATTTGAAGTCAGCACATACATTCAACATCATCTGCAGAATGCCACAGACTCTGGC
TCTCCTTCATCTTACATCTTGAATGAATATAGTAAACTAAATAGTAGAATTTTTAATTCAGACATTTCAA
ATAAACTGGAGCAGATTCCGAGAGTTTATGACGTTGTTACACCAAAGATTGAGGCGTGGCGCCGAGCATT
GGATTTAGTATTGTTAGTACTTCAGACAGACAGTGAAATAATTACTGGACATGGACACACACAGATAAAT
TCACAGGAATTAACGGGCTTTCTATTTTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

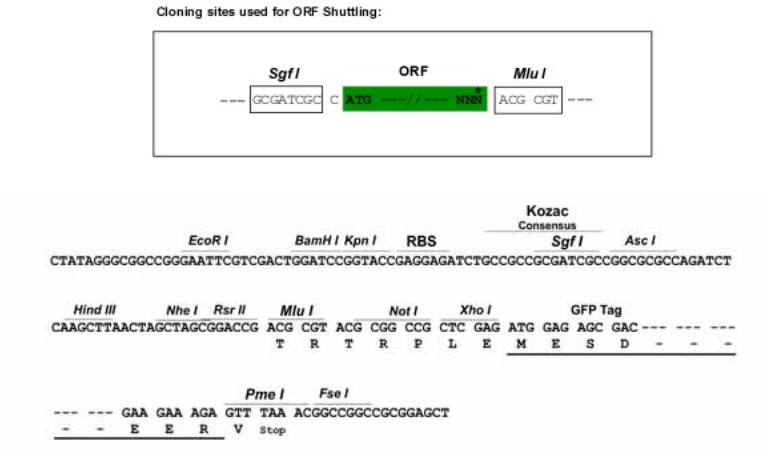
>RG207995 representing NM_152618
Red=Cloning site Green=Tags(s)

MVMACRVVNKRRHMGLQQLSSFAETGRTFLGPLKSSKFIIDEECHESVLISSTVRLLESLDLTSAVGQLL
NEAVQAQNNTYRTGISTLLFLVGAWSSAVEECLHLGVPISIIVSVMSEGLNFCSEEVVSLHVPVHNIFDC
MDSTKTFSQLETFSVSLCPFLQVPSDTDLIEELHGLKDVASQTLTISNLSGRPLRSYELFKPQTKVEADN
NTSRTLKNSLLADTCCRQSILIHSRHFNRTDNTEGVSKPDGFQEHVTATHKTYRCNDLVELAVGLSHGDH
SSMKLVEEAVQLQYQNACVQQGNCTKPFMFDISRIFTCCLPGLPETSSCVCPGYITVVSVSNNPVIKELQ
NQPVRIVLIEGDLTENYRHLGFNKSANIKTVLDSMQLQEDSSEELWANHVLQVLIQFKVNLVLVQGNVSE
RLIEKCINSKRLVIGSVNGSVMQAFAEAAGAVQVAYITQVNEDCVGNGVCVTFWRSSPLDVVDRNNRIAI
LLKTEGINLVTAVLTNPVTAQMQIKEDRFWTCAYRLYYALKEEKVFLGGGAVEFLCLSCLHILAEQSLKK
ENHACSGWLHNTSSWLASSLAIYRPTVLKFLANGWQKYLSTLLYNTANYSSEFEVSTYIQHHLQNATDSG
SPSSYILNEYSKLNSRIFNSDISNKLEQIPRVYDVVTPKIEAWRRALDLVLLVLQTDSEIITGHGHTQIN
SQELTGFLFL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152618

ORF Size: 2130 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152618.2, NP_689831.2

RefSeq Size: 3260 bp

RefSeq ORF: 2133 bp

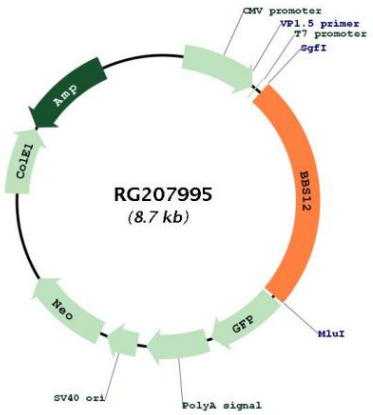
Locus ID: 166379

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]

Product images:



Circular map for RG207995