

Product datasheet for **SC108137**

BSCL2 (NM_032667) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BSCL2 (NM_032667) Human Untagged Clone
Tag:	Tag Free
Symbol:	BSCL2
Synonyms:	GNG3LG; HMN5; HMN5C; PELD; SPG17
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108137 sequence for NM_032667 edited (data generated by NextGen Sequencing)

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ATGGTCAACGACCCTCCAGTACCTGCCTTACTGTGGGCCAGGAGTGGGCCAAGTCTTG
GCAGGCCGTGCCCGCAGGCTGCTGCTGCAGTTTGGGGTGCTCTTCTGCACCATCCTCCT
TTGCTCTGGGTGTCTGTCTTCTCTATGGCTCCTTCTACTATTCTATATGCCGACAGTC
AGCCACCTCAGCCCTGTGCATTTCTACTACAGGACCGACTGTGATTCTCCACCACCTCA
CTCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTAAGGGTGGACGTGATCGGGTGCTG
ATGTATGGACAGCCGATCGTGTACCTTAGAGCTTGAGCTGCCAGAGTCCCCTGTGAAT
CAAGATTTGGGCATGTTCTTGGTCACCATTTCTGCTACACCAGAGGTGGCCGAATCATC
TCCACTTCTTCGCGTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGAC
ACACTGGTCTTCTAGCCTCCTGCTATTTGGCTTGCAGAGCAGAAGCAGCTGCTGGAG
GTGGAACCTACGCAGACTATAGAGAGAACTCGTACGTGCCGACCACTGGAGCGATCATT
GAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCATCCACGCGCACTTC
ACTGGGCTCAGATACCTGCTATACAACTTCCCAGTACCTGCGCCTTCATAGGTGTTGCC
AGCAACTTACCTTCTCAGCGTCATCGTCTTTCAGCTACATGCAGTGGGTGTGGGGG
GGCATCTGGCCCCGACACCGCTTCTCTTGCAGGTTAACATCCGAAAAAGAGACAATTCC
CGGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGCCAGGGCCTGAAGGCCAGGAGGAG
TCAACTCCGCAATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAGATCCCTCAGGGACA
GAGGGTCAGCTGTCCGAGGAGGAGAAACCAGATCAGCAGCCCTGAGCGGAGAAGAGGAG
CTAGAGCCTGAGCCAGTGATGGTTCAGGCTCCTGGGAAGATGCAGCTTTGCTGACGGAG
GCCAACCTGCCTGCTCCTGCTCCTGCTTCTGCTTCTGCCCTGTCTAGAGACTCTGGGC
AGCTCTGAACCTGCTGGGGTGCTCTCCGACAGCGCCCCACCTGCTCTAGTTCCTGA

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Clone variation with respect to NM_032667.6



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032667 unedited
 GTCGCAATTTGTATACGACNACTATAGGGCGGCCGCAATTCGCACGAGGTGAATCTTCG
 TTTCTCTCCCAGGACCCTCCATTTTCCATATCCAGGAAAATGTGATGCGCCACAGGTATC
 AGCGTCTGGATCGCCACTTACGTTTTAGCCACAAGTGACTCAGTGGAAGATCCAGAGTC
 AACAGAGGCTCGTCAGGAAGATGTCTACAGAAAAGGTAGACAAAAGGAGGAAGCTGGGG
 AAAAAGAGGTGTGCGGAGACCAGATCAAAGGACCGGACAAAGAGGAGGAACCCAGCTG
 CTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGCAGCTAGGAACGCAAGGCCTG
 AACCTGGGGCCAGACACCCTGCTCTCCCGCCATGGTCAACGACCCTCCAGTACCTGCCT
 TACTGTGGGCCAGGAGGTGGGCCAAGTCTTGGCAGGCCGTGCCCGCAGGCTGCTGCTGC
 AGTTTGGGGTGTCTTCTGCACCATCCTCTTTTGTCTGGGTGTCTGTCTTCTCTATG
 GCTCCTTCTACTATTCTATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATTCTACT
 ACAGGACCGACTGTGATTCTCCACCACCTCACTCTGCTCCTTCCCTGTTGCCAATGTCT
 CGTGACTAAAGGTGGACGTGATNCGGTGCTGATGATGGACAGCCGATCGTGTACCT
 TAGAGGCTGAGCTGCCAGAGTCCCCTGTGAATCAAGATTTGGGCATGGTTCTGGGTACC
 TTCCTGTACACCAGAGGTGGGCGAATCATCTCCACTTCTTCGGTTCCGTGATGCTGC
 ATTACCGTCAGACTTGTCCAGATGCCTGAAACAACCTGGTTCTCTCTAGGCTCCTGCT
 ATTTGGGCTTTGCAAAACAAAAGCAGCTGCTGGAAGTGGGAACCTTACCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032667 unedited
 GAACCGCGGGCCCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGAAGCTGACCCAAAATAGTTTATTGAAGG
 AAAAACAGGGGAAAGGAGTCAGGGGGGAAAATGCTGGAATGGGAGGAATCTGCCCTTT
 TTTTAAAGAACTAAAACAGGGGGGCGCTTCGGAAAACACCCCAACAGGGTCAAACT
 GCCCAAAATCTTAAAGACAGGGGCCAAAACAAAACCGGAGCCGAGCCGCGGTTGGC
 CCCCTCAAAAAAAGTGGATTTCCCAAGAACCTGAACCATCACTGGCCTCAGGGTCTAA
 CTCCTTTTTTCCCTCAAGGGCTGGTGAAGTGGGTTCTCCTCCTCGGACAAGTGACCCTT
 TGGCCCTGAGGGAACCTCAGGGCTCACCATCCTCTGTAACATCTGATTGGGGAGGTGA
 CTCCTCTGGCCTTAAAGCCTGGCTGATGAACAAAAACCTTCGTTGGACTTTCTTCCG
 GGAATTGGCTTTTTTTCGGATGGTAACCCGCAAAAAAACGGGGTGGGGCCACATGCC
 CCCCCACCCCACTGGATGTATCTGAAAAACACCATGACCCTTAAAGAAAGTAAAATTGCT
 GGCGACACCTCATGAACGCCCAAGTCACTCGGGAATTGATAACAGGTTTCTGAACCCACC
 GAATGCCCCCGGAGCCGAGTAAGCTCCATACACCTGGATGGCCTTGTGGGGATCTT
 AAAGAACCCTCAACGGGTGGGACCCAAACAATTTTTTCTATAGATTGGGGAGAAAGT
 CCCCTCCCACCTTGTCTGTGCTTTGTAACCCAATAAGGGGGGGTAAAAAAAACC
 TGGGGCCACATTGGGACCGGCTCTTGGGGTTTCGCCCTCCCTACCCAAAACGGGAT
 ATAATCCCCACCTTGGGGCCAGGAAAGGGGCCAAAACCTCCCAAT

Restriction Sites:

NotI-NotI

ACCN:

NM_032667

Insert Size:

1600 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_032667.4](#), [NP_116056.3](#)

RefSeq Size: 1664 bp

RefSeq ORF: 1197 bp

Locus ID: 26580

UniProt ID: [Q96G97](#)

Cytogenetics: 11q12.3

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes the multi-pass transmembrane protein protein seipin. This protein localizes to the endoplasmic reticulum and may be important for lipid droplet morphology. Mutations in this gene have been associated with congenital generalized lipodystrophy type 2 or Berardinelli-Seip syndrome, a rare autosomal recessive disease characterized by a near absence of adipose tissue and severe insulin resistance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Naturally occurring read-through transcription occurs between this locus and the neighboring locus HNRNPUL2 (heterogeneous nuclear ribonucleoprotein U-like 2).[provided by RefSeq, Mar 2011]
Transcript Variant: This variant (2) has an alternate 5' exon and uses a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) has a shorter N-terminus, as compared to isoform 1.