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Product datasheet for RC225782

BSCL2 (NM_001122955) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BSCL2 (NM_001122955) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BSCL2
Synonyms:	GNG3LG; HMN5; HMN5C; PELD; SPG17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC225782 representing NM_001122955
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCAACGACCCTCCAGTACCTGCCTTACTGTGGGCCCAGGAGGTGGGCCAAGTCTTGGCAGGCCGTG
CCCGCAGGCTGCTGCTGCAGTTTGGGGTGCTCTTCTGCACCATCCTCCTTTTGCTCTGGGTGTCTGTCTT
CCTCTATGGCTCCTTCTACTATTCCTATATGCCGACAGTCAGCCACCTCAGCCCTGTGCATTTCTACTAC
AGGACCGACTGTGATTCCTCCACCACCTCACTCTGCTCCTTCCCTGTTGCCAATGTCTCGCTGACTAAGG
GTGGACGTGATCGGGTGCTGATGTATGGACAGCCGTATCGTGTTACCTTAGAGCTTGAGCTGCCAGAGTC
CCCTGTGAATCAAGATTTGGGCATGTTCTTGGTCACCATTTCCTGCTACACCAGAGGTGGCCGAATCATC
TCCACTTCTTCGCGTTCGGTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCT
TCTCTAGCCTCCTGCTATTTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGGAACTCTACGCAGACTA
TAGAGAGAACTCGTACGTGCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTAT
GGAGCCTACCTCCGCATCCACGCGCACTTCACTGGGCTCAGATACCTGCTATACAACTTCCCGATGACCT
GCGCCTTCATAGGTGTTGCCAGCAACTTCACCTTCCTCAGCGTCATCGTGCTCTTCAGCTACATGCAGTG
GGTGTGGGGGGGCATCTGGCCCCGACACCGCTTCTCTTTGCAGGTTAACATCCGAAAAAGAGACAATTCC
CGGAAGGAAGTCCAACGAAGGATCTCTGCTCATCAGCCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGC
AATCAGATGTTACAGAGGATGGTGAGAGCCCTGAAGATCCCTCAGGGACAGAGGGTCAGCTGTCCGAGGA
GGAGAAACCAGATCAGCAGCCCCTGAGCGGAGAAGAGGAGCTAGAGCCTGAGGCCAGTGATGGTTCAGGC
TCCTGGGAAGATGCAGCTTTGCTGACGGAGGCCAACCTGCCTGCTCCTGCTCCTGCTTCTGCTTCTGCCC
CTGTCCTAGAGACTCTGGGCAGCTCTGAACCTGCTGGGGGTGCTCTCCGACAGCGCCCCACCTGCTCTAG
TTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

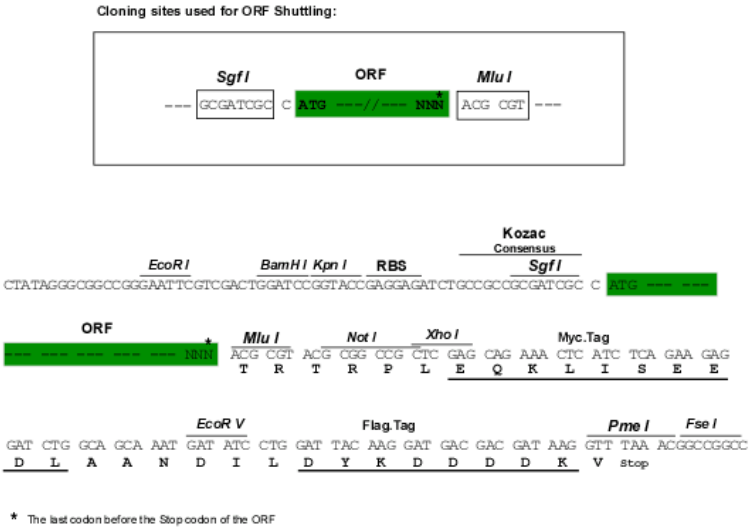
>RC225782 representing NM_001122955
Red=Cloning site Green=Tags(s)

MVNDPPVPALLWAQEVGQVLAGRARRLLLQFGVLFCTILLLLWVSVFLYGSFYYSYMPTVSHLSPVHFYY
RTDCDSSTTSLCSFPVANVSLTKGGRDRVLMYGQPYRVTLELELPESPVNQDLGMFLVTISCYTRGGRII
STSSRSVMLHYRSDLLQMLDTLVFSSLLLFGFAEQKQLLEVELYADYRENSYVPTTGAIIEIHSKRIQLY
GAYLRIHAHFTGLRYLLYNFPMTCAFIGVASNFTFLSVIVLFSYMQWVWGGIWPRHRFSLQVNIRKRDNS
RKEVQRRISAHQPGPEGQEESTPQSDVTEDGESPEDPSGTEGQLSEEEKPDQQPLSGEEELEPEASDGSG
SWEDAALLTEANLPAPAPASASAPVLETLGSSEPAGGALRQRPTCSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001122955

ORF Size: 1194 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 ORF: 1389 bp

Locus ID: 26580

UniProt ID: Q96G97

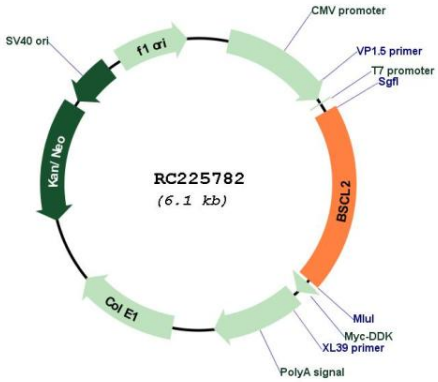
Cytogenetics: 11q12.3

Protein Families: Druggable Genome, Transmembrane

MW: 44.39 kDa

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]

Product images:



Circular map for RC225782