

Product datasheet for **RG225781**

BSCL2 (NM_001130702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BSCL2 (NM_001130702) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BSCL2
Synonyms:	GNG3LG; HMN5; HMN5C; PELD; SPG17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225781 representing NM_001130702
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTACAGAAAAGGTAGACAAAAGGAGGAAGCTGGGAAAAAGAGGTGTGCGGAGACCAGATCAAAG
 GACCGGACAAAGAGGAGGAACCACCAGCTGCTGCATCCCATGGCCAGGGGTGGCGTCCAGGTGGCAGAGC
 AGCTAGGAACGCAAGGCCTGAACCTGGGGCCAGACACCCTGCTCTCCCGCCATGGTCAACGACCCTCCA
 GTACCTGCCTTACTGTGGGCCAGGAGGTGGGCCAAGTCTTGGCAGGCCGTGCCCGCAGGCTGCTGCTGC
 AGTTTGGGGTGTCTTCTGCACCATCCTCTTTTGTCTGGGTGTCTGTCTTCTCTATGGCTCCTTCTA
 CTATTCATATGCCACAGTCAGCCACCTCAGCCCTGTGCATTTCTACTACAGGACCGACTGTGATTCC
 TCCACCACCTCACTCTGCTCCTCCCTGTTGCCAATGTCTCGTACTAAGGGTGGACGTGATCGGGTGC
 TGATGTATGGACAGCCGATCGTGTACCTTAGAGCTTGAGCTGCCAGAGTCCCCTGTGAATCAAGATTT
 GGGCATGTTCTTGGTCAACATTTCTGTACACCAGAGGTGGCCGAATCATCTCCACTTCTCGCGTTCCG
 GTGATGCTGCATTACCGCTCAGACCTGCTCCAGATGCTGGACACACTGGTCTTCTAGCCTCCTGCTAT
 TTGGCTTTGCAGAGCAGAAGCAGCTGCTGGAGGTGGAACCTACGCAGACTATAGAGAGAACTCGTACGT
 GCCGACCACTGGAGCGATCATTGAGATCCACAGCAAGCGCATCCAGCTGTATGGAGCCTACCTCCGCATC
 CACGCGCACTTCACTGGGCTCAGATACCTGCTATAACAATCCCGATGACCTGCGCCTTCATAGGTGTTG
 CCAGCAACTTCACTTCTCAGCGTCATCGTCTTTCAGCTACATGCAGTGGGTGTGGGGGGGCATCTG
 GCCCGACACCGCTTCTCTTGCAGGTTAACATCCGAAAAAGAGACAATCCCGGAAGGAAGTCCAACGA
 AGGATCTTGCTCATCAGCCAGGGCCTGAAGGCCAGGAGGAGTCAACTCCGCAATCAGATGTTACAGAGG
 ATGGTGAGAGCCCTGAAGATCCCTCAGGGACAGAGGGTCACTGTCAGGAGGAGAAACCAGATCAGCA
 GCCCTGAGCGGAGAAGAGGAGCTAGAGCCTGAGGCCAGTGATGGTTTCAGGCTCCTGGGAAGATGCAGCT
 TTGCTGACGAGGCCAACCTGCCTGCTCCTGCTCTGCTTCTGCTTCTGCCCTGTCTAGAGACTCTGG
 GCAGCTCTGAACCTGCTGGGGTGTCTCCGACAGCGCCACCTGCTCTAGTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG225781 representing NM_001130702
 Red=Cloning site Green=Tags(s)

MSTEKVDQKEEAGEKEVCGDQIKGPDKEEPPAAASHGQGWPRPGGRAARNARPEPGARHPALPAMVNDPP
 VPALLWAQEVGQVLAGRARRLLQFGVLFCTILLLLWVSFVLYGSFYYSYMPVSHLSPVHFYVRTDCDS
 STTSLCSFPVANVSLTKGGRDRVLMYGPYRVTLELELPESPVNQDLGMFLVTISCYTRGGRIISTSSRS
 VMLHYRSDLLQMLDTLVFSSLLLFGFAEQQLLEVELEYADYRENSYVPTTGAIIEIHSKRIQLYGAYLRI
 HAHFTGLRYLLYNFPMTCAFIGVASNFTFLSVIVLFSYMQVWGGIWRPHRFSLQVNIKRKRDNSRKEVQR
 RISAHQPGPEGQEESTPQSDVTEDEGSEDPDSGTEGQLSEEEKPDQQLSGEELEPEASDGSWSWEDAA
 LLTEANLPAPAPASASAPVLETLGSSEPAAGGALRQRPTCSSS

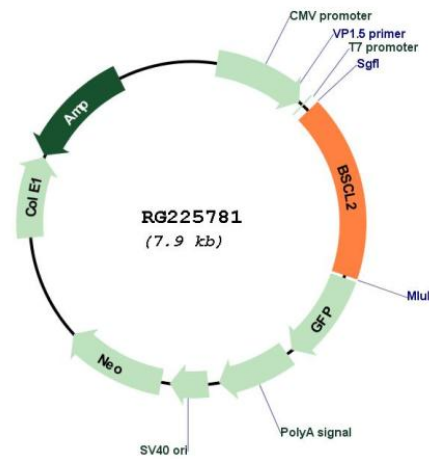
TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_001130702

ORF Size: 1375 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:	<ol style="list-style-type: none">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:	<u>NM_001130702.1, NP_001124174.1</u>
RefSeq ORF:	864 bp
Locus ID:	26580
UniProt ID:	<u>Q96G97</u>
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]