

## Product datasheet for **SC118205**

### **SLUG (SNAI2) (NM\_003068) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SLUG (SNAI2) (NM_003068) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLUG
Synonyms:	SLUG; SLUGH; SLUGH1; SNAIL2; WS2D
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**Fully Sequenced ORF:**

```

>OriGene sequence for NM_003068 edited
GAATTCGGCACGAGGAGGAGCCGGGTGACTTCAGAGGCGCCGGCCGTCCTGCTGCCGCA
CCTGAGCACGGCCCTGCCCGAGCTGGCCCGCCGCGATGCTGTAGGGACCGCCGTGTCC
TCCCGCCGGACCGTTATCCGCGCCGGGCGCCGCCAGACCCGCTGGCAAGATGCCGCGCT
CCTTCTGGTCAAGAAGCATTTCAACGCCTCAAAAAGCCAACTACAGCGAACTGGACA
CACATACAGTGATTATTTCCCGTATCTCTATGAGAGTTACTCCATGCCTGTCATACCAC
AACCAGAGATCCTCAGCTCAGGAGCATACAGCCCATCACTGTGTGGACTACCGTGTCTC
CATTCCACGCCAGCTACCCAATGGCCTCTCTCCTTTTCCGGATACTCCTCATCTTTGG
GGCGAGTGAGTCCCCCTCTCCATCTGACACCTCTCCAAGGACCACAGTGGCTCAGAAA
GCCCCATTAGTGATGAAGAGGAAAGACTACAGTCCAAGCTTTCAGACCCCATGCCATTG
AAGCTGAAAAGTTTCAGTGCAATTTATGCAATAAGACCTATTCAACTTTTTCTGGGCTGG
CCAAACATAAGCAGCTGCACTGCGATGCCAGTCTAGAAAATCTTTCAGCTGTAATACT
GTGACAAGGAATATGTGAGCCTGGGCGCCCTGAAGATGCATATTCGGACCCACACATTAC
CTTGTTGTTGCAAGATCTGCGGCAAGGCGTTTTCCAGACCCTGGTTGCTTCAAGGACACA
TTAGAACTCACACGGGGAGAAGCCTTTTTCTTGCCCTCACTGCAACAGAGCATTTCGAG
ACAGGTCAAATCTGAGGGCTCATCTGCAGACCCATTCTGATGTAAGAAATACCAGTGCA
AAAAGTGTCCAAAACCTTCTCCAGAATGTCTCTCCTGCACAAACATGAGGAATCTGGCT
GCTGTGTAGCACACTGAGTGACGCAATCAATGTTTACTCGAACAGAATGCATTTCTTAC
TCCGAAGCCAAATGACAAATAAAGTCCAAAGGCATTTTCTCCTGTGCTGACCAACCAAAT
AATATGTATAGACACACACACATATGCACACACACACACACACCCACAGAGAGAGAGC
TGCAAGAGCATGGAATTCATGTGTTTAAAGATAATCCTTTCCATGTGAAGTTTAAATTA
CTATATATTTGCTGATGGCTAGATTGAGAGAATAAAAGACAGTAACCTTTCTCTTCAAAG
ATAAAATGAAAAGCACATTGCACTTTTTCTTCTAAAAAATGCAAAGATTTACATTGCT
GCCAAATCATTTCAACTGAAAAGAACAGTATTGCTTTGTAATAGAGTCTGTAATAGGATT
TCCCATAGGAAGAGATCTGCCAGACGCGAACTCAGGTGCCTTAAAAAGTATTCCAAGTTT
ACTCCATTACATGTGCGTTGTCTGGTTGCCATTGTTGAACTAAAGCCTTTTTTTGATTAC
CTGTAGTGCTTTAAAGTATATTTTTAAAAGGGAGGAAAAAATAACAAGAACAAAACACA
GGAGAATGTATTTAAAGTATTTTTGTTTTGTTTTGTTTTGTTTCCAAATTAACAGTATGTGCC
TTGGGGGAGGAGGAAAGATTAGCTTTGAACATTCCTGGCGCATGCTCCATTGTCTTACT
ATTTTAAAACATTTTAATAATTTTTGAAAATTAATTAAGATGGGAATAAGTGCAAAGA
GGATTCTTACAAATTCATTAATGTACTTAACTATTTCAAATGCATACCACAAATGCAAT
AATACAATACCCCTTCCAAGTGCCTTTTTAAATTGTATAGTTGATGAGTCAATGTAATTT
TGTGTTTTATTTTATATGATTGAATGAGTTCTGTATGAACTGAGATGTTGTCTATAGCT
ATGTCTATAAACAACTGAAGACTTGTGAAATCAATGTTTCTTTTTTAAAAACAATTTT
CAAGTTTTTTTTACAATAACAGTTTTTGATTTAAAAAATAAAAAAAAAAAAAAAGTCTCGAC
    
```

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_003068 unedited
GTCAGAATTTGTATACGACTCATATAGGGCGGCCGCGATTTCGGCACGAGGAGGAGCCGGG
TGACTTCAGAGGCCGCCGGCCCGTCCGTCTGCCGCACCTGAGCACGGCCCTGCCCGAGCC
TGGCCCGCCGCGATGCTGTAGGGACCGCCGTGTCTCCCGCCGGACCGTTATCCGCGCCG
GGC GCCCGCCAGACCCGCTGGCAAGATGCCGCGCTCCTTCTGGTCAAGAAGCATTTCAA
CGCCTCCAAAAAGCCAACTACAGCGAACTGGACACACATACAGTGATTATTTCCCGGTA
TCTCTATGAGAGTTACTCCATGCCTGTCCATACCACAACCAGAGATCCTCAGCTCAGGAGC
ATACAGCCCATCACTGTGTGGACTACCGCTGCTCCATTCCACGCCAGCTACCCAATGG
CCTCTCTCCTCTTTCCGGATACTCCTCATCTTTGGGGCGAGTGAGTCCCCCTCCTCCATC
TGACACCTCCTCCAAGGACCACAGTGGCTCAGAAAACCCATTAGTGATGAAGAGGAAAAG
ACTACAGTCCAAGCTTTTCCAGACCCCATGCCATTGAAGCTGAAAAGTTTTCAGTGCAATTT
ATGCAATAAGACCTATTCAACTTTTTCTGGGCTGGCCAAACATAAGCAGCTGCACTGCGA
TGCCAGTCTAGAAAATCTTTCAGCTGTAATACTGTGACAAGGAATATGTGAGCCTGGG
CGCCCTGAAGATGCATATTCGGACCCACACATTACCTTGTGTTTGCAAGATCTGCGGNCA
GGCGTTTTCCAGACCCTGGTTGCTTCAAGACACATTAGAACTCACACGGNGGAGAAGCCT
TTTTCTTGNCNCTCACTGCACAGAGCATTTCAGACAGGTCAAATCTGAGGGCTCATCTG
CAGACCCATTNCTGATGTAAGAAATACCAGTGCANAACTGCTNCCACACCT
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_003068 unedited
GCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTAAATCAAACACTGTTTATTG
TAAAAAAACTTGAAAAATGTTTTTAAAAAACAACATTGATTTACAAGTCTTCAGGT
TGTTTATAGACATAGCTATAGACAACATCTCAGTTTCATACAGAACTCATTCAATCATAT
AAAAATAAACACAAATTTACATTGACTCATCAACTATACAATTTAAAAAGGCACTTGGA
GGGTATTGTATTATTGCATTTGTGGTATGCATTTGAAATAGTTTAAAGTACATTAATGAA
TTTGTAAGAATCCTCTTTTGCACTTATCCCATCTTAATTAATTTTCAAAAATTATTA
AATGTTTTAAATAGTAAGACAATGGAGCATGCGCCAGGAATGTTCAAAGCTAATCTTTC
CCTCCTCCCCAAGGCACATACTGTTAATTGGCAAAAACAAAACAAAACAAAATACTTT
TAATACATTCTCCTGAGTTTTGTCTTGTATTTTTTCTCCTTTTAAAAATACTT
TAAAGCACTACAGGTAATCAAAAAAGGCTTTAGTTCAACAATGGCAACCAGACAACCGA
CATGTAATGGAGTAAACTTGAATACTTTTTAAGGCACCTGAGTTCGCGTCTGGCAGATC
TCTTCCTATGGGAAATCCTATTACAGACTCTATTACAAAGCAATACTGTTCTTTTCAGTT
GAAATGATTTGGCAGCAATGTAATCTTTGCATTNTTTAGGAAGAAAAAGATGCATGTG
CTTTTCATTTTATCTTTGAAGAGAAAGTTACTGTNCTTTATTCTCTCAATCTAGCCATCA
GCAAAATATAGTAATTTTAACTTACATGGGAAGGGATATCTTAACACATGAAATTCAT
GCTCTGCAGCTCTCTTCTGGGNNGGNGNGGGGGNGGGCATATGGGGGGNGNCTATCA
TATTATTGGGTGGNCANACAGGAAAA
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_003068

**Insert Size:**

1900 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_003068.3](#), [NP\\_003059.1](#)

**RefSeq Size:** 2101 bp

**RefSeq ORF:** 807 bp

**Locus ID:** 6591

**UniProt ID:** [O43623](#)

**Cytogenetics:** 8q11.21

**Domains:** zf-C2H2

**Protein Families:** Druggable Genome, Transcription Factors

**Protein Pathways:** Adherens junction

**Gene Summary:** This gene encodes a member of the Snail family of C2H2-type zinc finger transcription factors. The encoded protein acts as a transcriptional repressor that binds to E-box motifs and is also likely to repress E-cadherin transcription in breast carcinoma. This protein is involved in epithelial-mesenchymal transitions and has antiapoptotic activity. Mutations in this gene may be associated with sporadic cases of neural tube defects. [provided by RefSeq, Jul 2008]