

Product datasheet for **RG202365**

SLUG (SNAI2) (NM_003068) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLUG (SNAI2) (NM_003068) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SLUG
Synonyms: SLUG; SLUGH; SLUGH1; SNAIL2; WS2D
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG202365 representing NM_003068
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTCCTTCCTGGTCAAGAAGCATTTCAACGCCTCCAAAAGCCAAACTACAGCGAACTGGACA
CACATACAGTGATTATTTCCCGTATCTCTATGAGAGTTACTCCATGCCTGTCATACCACAACCAGAGAT
CCTCAGCTCAGGAGCATAACAGCCCATCACTGTGTGGACTACCGCTGCTCCATTCCACGCCAGCTACCC
AATGGCCTCTCTCTCTTTCCGGATACTCCTCATCTTTGGGGCGAGTGAGTCCCCCTCCTCCATCTGACA
CCTCCTCAAGGACCACAGTGGCTCAGAAAGCCCCATTAGTGATGAAGAGGAAAGACTACAGTCCAAGCT
TTCAGACCCCATGCCATTGAAGCTGAAAAGTTTCAGTGCAATTTATGCAATAAGACCTATCAACTTTT
TCTGGGCTGGCCAAACATAAGCAGCTGCACTGCGATGCCAGTCTAGAAAATCTTTCAGCTGTAATACT
GTGACAAGGAATATGTGAGCCTGGGCGCCCTGAAGATGCATATTCGGACCCACACATTACCTTGTGTTTG
CAAGATCTGCGGCAAGGCGTTTTCCAGACCCCTGGTTGCTTCAAGGACACATTAGAACTCACACGGGGGAG
AAGCCTTTTTCTTGCCCTCACTGCAACAGAGCATTTGCAGACAGGTCAAATCTGAGGGCTCATCTGCAGA
CCCATTCTGATGTAAGAAATACCAGTGCAAAAACCTGCTCCAAAACCTTCTCCAGAATGTCTCTCTGCA
CAAACATGAGGAATCTGGCTGCTGTGTAGCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202365 representing NM_003068
 Red=Cloning site Green=Tags(s)

MPRSFLVKKHFNASKKPNYSELDTHTVIISPYLYESYSMPVIPQPEILSSGAYSPITVWTTAAPFHAQLP
 NGLSPLSGYSSSLGRVSPPPPSDTSSKDHSGSESPISDEEERLQSKLSDPHAIEAEKFQCNLCNKTYSTF
 SGLAKHKQLHCDAQSRKSFCKYCDKEYVSLGALKMHIRTHTLPCVCKICGKAFSRPWL LQGHIRTHTGE
 KPFSCPHCNRAFADRSNLRAHLQTHSDVKKYQCKNCSKTF SRMSLLHKHEESGCCVAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003068

ORF Size: 804 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_003068.5](#)

RefSeq Size: 2101 bp

RefSeq ORF: 807 bp

Locus ID: 6591

UniProt ID: [O43623](#)

Cytogenetics: 8q11.21

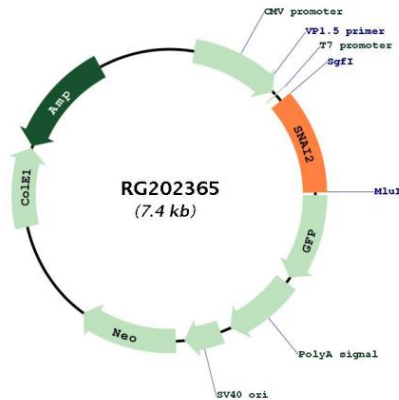
Domains: zf-C2H2

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]

Product images:



Circular map for RG202365