

Product datasheet for **MG203571**

Snai2 (NM_011415) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snai2 (NM_011415) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Snai2
Synonyms:	Slug; Slugh; Snail2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203571 representing NM_011415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGCTCCTTCTGGTCAAGAAACATTTCAACGCCTCCAAGAAGCCCAACTACAGCGAACTGGACA
CACACACAGTTATTATTTCCCATATCTCTATGAAAGTTACCCTATACCTGTCATACCAAAACCAGAGAT
CCTCACCTCGGGAGCATAACAGCCCTATTACTGTATGGACATCGTCGGCAGCTCCACTCCACTCTCCTTTA
CCCAGTGGCCTTTCTCCTTACTGGATACTCCTCATCCTTGGGGCGTGAAGTCCCCCGCCTTCTCTG
ACACTTCAACAAGGATCACAGTGGTTCAGAAAGTCCCATTAGTGACGAAGAGGAGAGACTGCAGCCCAA
GCTTTCAGACCCCATGCCATCGAAGCTGAGAAGTTTCAGTGCAATTTATGCAATAAGACCTATTCTACG
TTCTCTGGGCTGGCCAAACACAAGCAGCTGCACTGTGATGCCAGTCTAGGAAATCGTTCAGCTGCAAGT
ACTGTGACAAGGAATATGTGAGCCTGGGTGCCCTGAAGATGCACATTCGAACCCACACATTGCCCTGTGT
CTGCAAGATCTGTGGCAAGGCTTCTCCAGACCCTGGCTGCTTCAAGGACACATTAGAACTCACACTGGG
GAAAAGCCTTTCTTGGCCTCACTGCAATAGGGCTTTTGAGACAGATCAAACCTGAGGGCACATCTGC
AGACCCACTCTGATGTAAGAAAATACCAGTGCAAAAACCTGCTCCAAAACCTTCTCCAGAATGTCGCTTCT
GCATAAACATGAGGAGTCTGGCTGCTGTGTGGCACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203571 representing NM_011415
 Red=Cloning site Green=Tags(s)

MPRSFLVKKHFNASKKPNYSELDTHTVIISPYLYESYIPVIPKPEILTSYGAYSPITVWTSSAAPLHSP
 PSGLSPLTGYSSSLGRVSPPPSSDTSSKDHSSESPISDEEERLQPKLSDPHAIEAEKFQCNLCNKTYST
 FSLGAKHKQLHCDAQSRKSFCKYCDKEYVSLGALKMHIRTHTLPCVCKICGKAFSRPWLLQGHIRTHTG
 EKPFSCPHCNRAFRADSNLRAHLQTHSDVKKYQCKNCSKTF SRMSLLHKHEESGCCVAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011415

ORF Size: 807 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_011415.3](#)

RefSeq Size: 2084 bp

RefSeq ORF: 810 bp

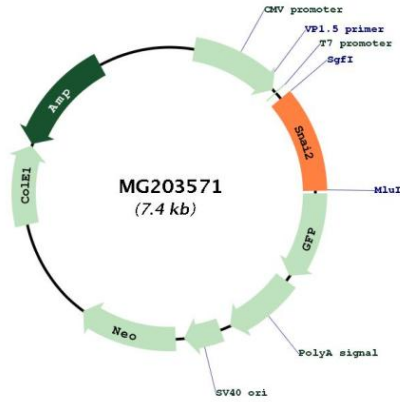
Locus ID: 20583

UniProt ID: [P97469](#)

Cytogenetics: 16 10.07 cM

Gene Summary: Transcriptional repressor that modulates both activator-dependent and basal transcription. Involved in the generation and migration of neural crest cells. Plays a role in mediating RAF1-induced transcriptional repression of the TJ protein, occludin (OCLN) and subsequent oncogenic transformation of epithelial cells. Represses BRCA2 expression by binding to its E2-box-containing silencer and recruiting CTBP1 and HDAC1 in breast cells. In epidermal keratinocytes, binds to the E-box in ITGA3 promoter and represses its transcription. Involved in the regulation of ITGB1 and ITGB4 expression and cell adhesion and proliferation in epidermal keratinocytes. Binds to E-box2 domain of BSG and activates its expression during TGF β 1-induced epithelial-mesenchymal transition (EMT) in hepatocytes. Represses E-Cadherin/CDH1 transcription via E-box elements. Involved in osteoblast maturation. Binds to RUNX2 and SOC9 promoters and may act as a positive and negative transcription regulator, respectively, in osteoblasts. Binds to CXCL12 promoter via E-box regions in mesenchymal stem cells and osteoblasts. Plays an essential role in TWIST1-induced EMT and its ability to promote invasion and metastasis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG203571