

Product datasheet for **MC205947**

Snai2 (BC062164) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Snai2 (BC062164) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Snai2
Synonyms:	Slug, Snail2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC062164
 CAGGGAGCCGGGTGACTTCAGAGGCGCCTGCCTGTCCCCGCCGCACCTGAGCCACCGCGATGCTATAGG
 ACCGCCGCTGGACCGTTATCCGCCCGCGCCGCCCGCAGCCACCATGCCGCGCTCCTTCTGGTCAAGA
 AACATTTCAACGCCTCCAAGAAGCCAACTACAGCGAACTGGACACACACACAGTTATTATTTCCCATA
 TCTCTATGAAAGTTACCTATACCTGTACACAAAACAGAGATCCTCACCTCGGGAGCATACAGCCCT
 ATTACTGTATGGACATCGTCGGCAGCTCCACTCCACTCTCCTTTACCCAGTGGCCTTTCTCCTTACTG
 GATACTCCTCATCCTTGGGGCGTGAAGTCCCCGCCTTCTCTGACACTTCATCCAAGGATCACAGTGG
 TTCAGAAAAGTCCATTAGTGACGAAGAGAGAGACTGCAGCCCAAGCTTTCAGACCCCATGCCATCGAA
 GCTGAGAAGTTTCAAGTGAATTTATGCAATAAGACCTATTCTACGTTCTCTGGGCTGGCCAAACACAAGC
 AGCTGCACTGTGATGCCAGTCTAGGAAATCGTTCAGCTGCAAGTACTGTGACAAGGAATATGTGAGCCT
 GGGTGCCTGAAGATGCACATTCGAACCCACACATTGCCTTGTGTCTGCAAGATCTGTGGCAAGGCTTTC
 TCCAGACCCTGGCTGCTTCAAGGACACATTAGAATCACAAGTGGGAAAAGCCTTTCTCTGGCCTCACT
 GCAATAGGGCTTTTGCAGACAGATCAAACCTGAGGACACATCTGCAGACCCACTCTGATGTAAGAAATA
 CCAGTGCAAAAAGTCTCAAAAACCTTCCAGAATGTCGCTTCTGCATAAACATGAGGAGTCTGGCTGC
 TGTGTGGCACACTGAGTGGCGCAACCAGTGTACTCAAACAGAATGCATTTCTCACTCCAATGACAAA
 TGACAAAATGAAAGTCCAAGACATTTTCTCATGTGCTTACCAACCAAATAGTATGTATAAAACCACAAAA
 GAGTCAGAGAGAGAGAGAGAGAGAGAGA
 GACAGACAGACAGACAGACAGATACACACACACTACAGAACAGAACTATGTACTTAAAGTTAATTCGTT
 CTATGTGAAGTTTAAAATTATATTTACTGACAGCTAGATTGAAAGGATAAAAGATAAGAATCTTTCTCTT
 TAAAGATGAAGTAAAAGCACATTGCATCTTTTCTTACTAAGAAAGAATACAGAGATTTACACTGCTGCC
 AAACATTTCAACCAAAGGAACAGTATTTCTTCTTAATAGAATTGAATAGTGTTCGAAGGAAGAGA
 GTCTGCCAGACACTATCTCAGGTGCCTTATAAAGTACTCCAAGTTTACTTCTTAAATGTATGATGCCTG
 GTTGTCAATCAGTGAATGACAGCCTTTTCTGGATTACCTACAATGTTTTAAACTATATTGTTAAGAGAAA
 AAAAAACAAAAACAAGAAAAAGAACAGAACACAAGAGAATGTATTAAAGTATTCTTGTATTTTGGCC
 ATGTGTGCCTTGAAGAGGAGGAAAGACAAACTTCAAACATTCCTGGTGCCTGCTCCATGTCTTTCTTT
 TAAAAAAGAATCTTAATGTTTTATAATACAAAGTAATGAAAATGTGCAAAAAGATTTCTTAGACATTCA
 GTAATGTACTTAGACTTTTAAAATTCATGTGATGGATGCAGTAATAACAATGCCCTCCAAGTGCCTGTC
 TTAATGACTTGTGATGTTGATGAACTGATGTAATTTGTGTTATTTTTTACAACCTGAATGAACCTGT
 ATGAAAGTGAGGTACGGTAAATAGCCACGCCTATATTCAACCAGAATACTTGTGAAATCAATGCCTTTT
 TAAAAAGTAACTTTCAAGGTCTCTTTTTTACAATAAACATTTTTGAGTAAAAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: RsrII-NotI

ACCN: BC062164

Insert Size: 810 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC062164](#), [AAH62164](#)

RefSeq Size: 2084 bp

RefSeq ORF: 810 bp

Locus ID: 20583

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 TGFβ1-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]