OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204581

SNAIL (SNAI1) (NM_005985) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SNAIL (SNAI1) (NM_005985) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SNAIL
Synonyms:	dJ710H13.1; SLUGH2; SNA; SNAH; SNAIL; SNAIL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204581 representing NM_005985
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCGCTCTTTCCTCGTCAGGAAGCCCTCCGACCCCAATCGGAAGCCTAACTACAGCGAGCTGCAGG
ACTCTAATCCAGAGTTTACCTTCCAGCAGCCCTACGACCAGGCCCACCTGCTGGCAGCCATCCCACCTCC
GGAGATCCTCAACCCCACCGCCTCGCTGCCAATGCTCATCTGGGACTCTGTCCTGGCGCCCCAAGCCCAG
CCAATTGCCTGGGCCTCCCTTCGGCTCCAGGAGAGTCCCAGGGTGGCAGAGCTGACCTCCCTGTCAGATG
AGGACAGTGGGAAAGGCTCCCAGCCCCCCAGCCCACCCTCACCGGCTCCTTCGTCCTTCTCCTCTACTTC
AGTCTCTTCCTTGGAGGCCGAGGCCTATGCTGCCTTCCCAGGCTTGGGCCAAGTGCCCAAGCAGCTGGCC
CAGCTCTCTGAGGCCAAGGATCTCCAGGCTCGAAAGGCCTTCAACTGCAAATACTGCAACAAGGAATACC
TCAGCCTGGGTGCCCTCAAGATGCACATCCGAAGCCACACGCTGCCCTGCGTCTGCGGAACCTGCGGGAA
GGCCTTCTCTAGGCCCTGGCTGCTACAAGGCCATGTCCGGACCCACACTGGCGAGAAGCCCTTCTCCTGT
CCCCACTGCAGCCGTGCCTTCGCTGACCGCTCCAACCTGCGGGCCCACCTCCAGACCCACTCAGATGTCA
AGAAGTACCAGTGCCAGGCGTGTGCTCGGACCTTCTCCCGAATGTCCCTGCTCCACAAGCACCAAGAGTC
CGGCTGCTCAGGATGTCCCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204581 representing NM_005985
Red=Cloning site Green=Tags(s)

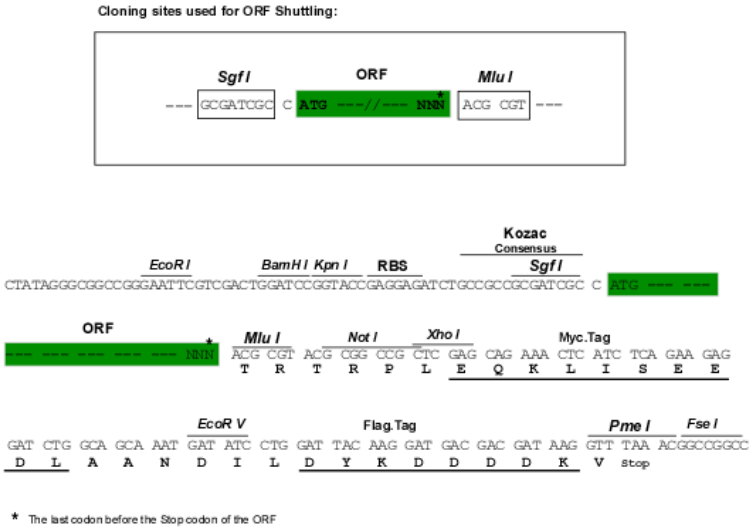
MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPPEILNPTASLPMLIWDSVLAPQAQ
PIAWASLRLQESPRVAELTSLSDEDSGKGSQPPSPPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLA
QLSEAKDLQARKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSC
PHCSRAFADRSNLRAHLQTHSDVKKYQCQACARTFSRMSLLHKHQESGCSGCPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2579_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005985

ORF Size: 792 bp

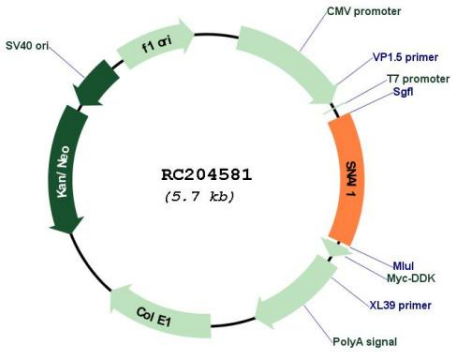
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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

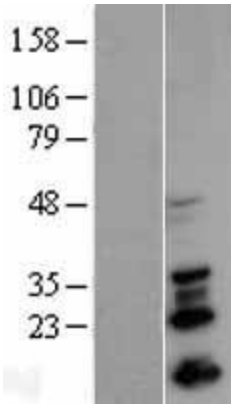
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005985.4
RefSeq Size:	1708 bp
RefSeq ORF:	795 bp
Locus ID:	6615
UniProt ID:	O95863
Cytogenetics:	20q13.13
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction
MW:	28.9 kDa
Gene Summary:	The Drosophila embryonic protein snail is a zinc finger transcriptional repressor which downregulates the expression of ectodermal genes within the mesoderm. The nuclear protein encoded by this gene is structurally similar to the Drosophila snail protein, and is also thought to be critical for mesoderm formation in the developing embryo. At least two variants of a similar processed pseudogene have been found on chromosome 2. [provided by RefSeq, Jul 2008]

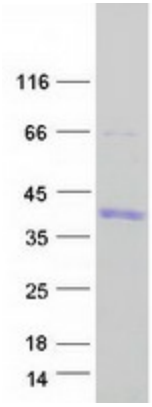
Product images:



Circular map for RC204581



Western blot validation of overexpression lysate (Cat# [LY401811]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204581 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SNAI1 protein (Cat# [TP304581]). The protein was produced from HEK293T cells transfected with SNAI1 cDNA clone (Cat# RC204581) using MegaTran 2.0 (Cat# [TT210002]).