

## Product datasheet for **RC209251**

### SnoN (SKIL) (NM\_005414) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SnoN (SKIL) (NM_005414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SnoN
Synonyms:	SNO; SnoA; SnoI; SnoN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC209251 representing NM\_005414  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAACTCCAGACAAATTTCTCCTTGGTTACAGGCTCAACTAAAAACTGAATGGGATGGGAGATG  
 ATGGCAGCCCCCAGCGAAAAAATGATAACGGACATTCATGTAATGGAAAAACGATAAAACAAGGTGCC  
 AACAGTTAAGAAGGAACCTTGGATGACTATGGAGAAGCACCAAGTGGAACTGATGGAGAGCATGTTAAG  
 CGAACCTGACTTCTGTTCTGAACTTTGCATTTAAATCCCAGTTTGAACACACATTGGCACAATTCC  
 ATTTAAGTAGTCAGAGCTCGCTGGTGGACCAGCAGCATTTTCTGCTCGCATTCCCAAGAAAGCATGTC  
 GCCTACTGATTTCTGCCTTCCATCACCTCAGGTTCTTCTGGCCATTGCTCATCCCTTCAGATAGC  
 TCCACAGAACTCACTCAGACTGTGTGGAAGGGAATCTATTTCTGTTTTCAAGTTGGAGGAGAAAAGA  
 GACTCTGTTTGCCTCAAGTCTTAAATCTGTTCTCCGAGAATTTACTCCAGCAATAAATACAGTGTG  
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 TGGCGCCACGAATTTTCTCAAATGGTAGCGTACTTCTGCTAAAAGCTCATTGGCCAGTTAAAGGA  
 AACTGGCAGTGCCTTTGAAGTTGAGCATGAATGCCTAGGCAATGTCCAGGTTTATTTGCACCCAGTTT  
 TATGTTACGCCTGATGCTCCGTGATTCATGTCTGGAGTGTGTGGAATGTTTGCACCCAGACGTTT  
 TGATGCATTCTCACAGATCACCTGACAAAAGAAGTTGCCACTGGGGCTTTGAATCAGCTAAATGGCATTG  
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 ATGAAGGAGAAGTTTAGCATGAGAAGTGGAAAGAGAAATCAATCCAAGACAGATGCACCATCAGGAATGG  
 AATTACAGTCATGGTATCCTGTTATAAAGCAGGAAGGTGACCATGTTTCTCAGACACATTCATTTTACA  
 CCCCAGTACTACTTATACATGTGTGATAAAGTGGTTGCCCAAATGTGCACTTACTTCTGCTGTATCC  
 CAGTCTAAAGAGCTCACAAAGACAGAGGCAAGTAAGTCCATATCAAGACAGTCAGAGAAGGCTCACAGTA  
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 CTCGCTTCTGTGAAAGATGTCATTTGTGAGGATGATAAGGGAAAAATCATGGAAGAAGTAATGAGAAC  
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 GGAGCAGATAATGAAGCAAAAAATGTACCTGTGACTCAAATTTAGAAAAAGACAAAGAGGCTGAATATGCA  
 GGACAGTTGGCAGAACTGAGGCAGAGATTGGACCATGCTGAGGCCGATAGGCAAGAACTCCAAGATGAAC  
 TCAGACAGGAACGGGAAGCAAGACAGAAGTTAGAGATGATGATAAAGAGCTAAAGCTGCAAATCTGAA  
 ATCATCAAAGACTGCTAAAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC209251 representing NM\_005414  
 Red=Cloning site Green=Tags(s)

MENLQTNFSLVQGSTKKLNGMGDDGSPPAKKMITDIHVNGKTINKVPTVKKEHLDDYGEAPVETDGEHVK  
 RTCTSVPETLHLNPSLKHTLAQFHLSSQSSLGGPAAF SARHSQESMSPTVFLPLPSPQVLPGLLIPSDS  
 STELTQTVLEGESISCFQVGGKRLCLPQVLNSVLRFTLQQINTVCEDELYIYCSRCTSDQLHILKVLGI  
 LPFNAPSCGLITLTDAQRLCNALLRPRTFPQNGSVLPAKSSLAQLKETGSAFEVEHECLGKCQGLFAPQF  
 YVQPDAPCIQCLECCGMFAPQTFVMHSHRSPDKRTCHWGFESAKWHCYLHVNQKYLGTPEEKKLLKILEE  
 MKEKFSMRSGKRNSKTDAPSGMELQSWYPVIKQEGDHVSQTHSFLHPSYLLYMCDKVVAPNVSLTSAVS  
 QSKELTKTEASKISIRQSEKAHSSGKLQKTVSYPDVSLEEQEKMDLKTSRELCSRLDASISNNSTSKRKS  
 ESATCNLVRDINKVIGLVAAASSPLLVKDVICEDDKGKIMEVMRTYLKQKEKLNILQKKQQLQMEVK  
 MLSSSKSMKELTEEQNLQKELESQNEHAQRMEEFYVEQKDLEKKLEQIMKQKCTCDSNLEKDKAEAYA  
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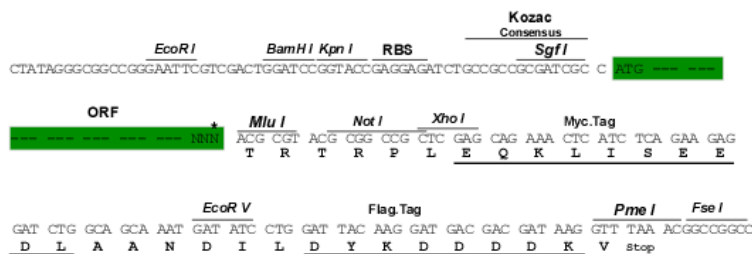
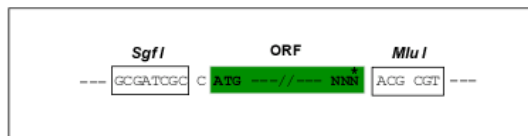
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2598\\_d01.zip](https://cdn.origene.com/chromatograms/mg2598_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_005414

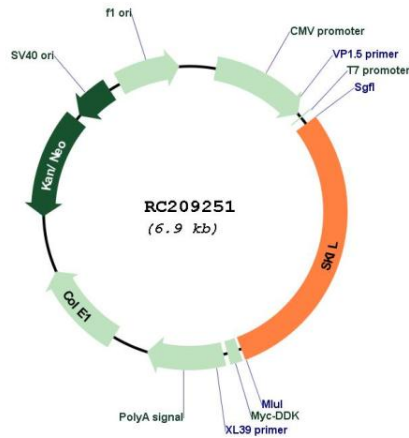
**ORF Size:** 2052 bp

**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](#)

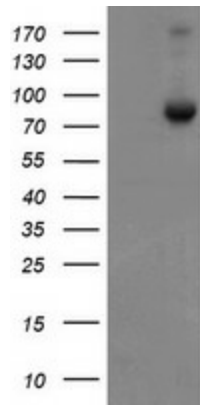
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_005414.2</a></u> , <u><a href="#">NP_005405.1</a></u>
<b>RefSeq Size:</b>	3111 bp
<b>RefSeq ORF:</b>	2055 bp
<b>Locus ID:</b>	6498
<b>UniProt ID:</b>	<u><a href="#">P12757</a></u>
<b>Cytogenetics:</b>	3q26.2
<b>Domains:</b>	Ski_Sno
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>MW:</b>	76.8 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a component of the SMAD pathway, which regulates cell growth and differentiation through transforming growth factor-beta (TGFB). In the absence of ligand, the encoded protein binds to the promoter region of TGFB-responsive genes and recruits a nuclear repressor complex. TGFB signaling causes SMAD3 to enter the nucleus and degrade this protein, allowing these genes to be activated. Four transcript variants encoding three different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

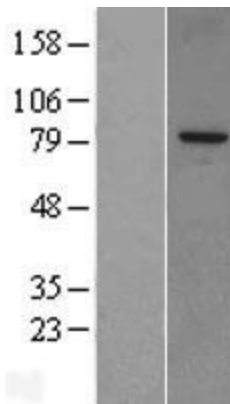
Product images:



Circular map for RC209251



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY SKIL (Cat# RC209251, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SKIL (Cat# [TA800171]). Positive lysates [LY417307] (100ug) and [LC417307] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417307]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209251 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).