

## Product datasheet for **RG233077**

### SnoN (SKIL) (NM\_001248008) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SnoN (SKIL) (NM_001248008) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SKIL
Synonyms:	SNO; SnoA; SnoI; SnoN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RG233077 representing NM\_001248008  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAACTCCAGACAAATTTCTCCTTGGTTACAGGCTCAACTAAAAACTGAATGGGATGGGAGATG  
 ATGGCAGCCCCCAGCGAAAAAATGATAACGGACATTCATGCAAATGGAAAAACGATAAAACAAGGTGCC  
 AACAGTTAAGAAGGAACACTTGGATGACTATGGAGAAGCACCAAGTGGAACTGATGGAGAGCATGTTAAG  
 CGAACCTGTAATCTGTTCTGAACTTTGCATTTAAATCCCAGTTTGAACACACATTGGCACAATTCC  
 ATTTAAGTAGTCAGAGCTCGCTGGTGGACCAGCAGCATTTTCTGCTCGCATTCCCAAGAAAGCATGTC  
 GCCTACTGTAATTTCTGCCTTCCATCACCTCAGGTTCTTCTGGCCATTGCTCATCCCTTCAGATAGC  
 TCCACAGAACTCACTCAGACTGTGTGGAAGGGAATCTATTTCTGTTTTCAAGTTGGAGGAGAAAAGA  
 GACTCTGTTTGCCTCAAGTCTTAAATCTGTTCTCCGAGAATTTACTCCAGCAAATAAATACAGTGTG  
 TGATGAACTGTACATATATTGTTCAAGGTGTACTTCAGACCAGCTTCATATCTTAAAGGTACTGGGCATA  
 CTTCATTCAATGCCCATCCTGTGGGCTGATTACATTAAGTATGACACAAGATTATGTAATGCTTTAT  
 TGGCGCCACGAATTTTCTCAAATGGTAGCGTACTTCTGCTAAAAGCTCATTGGCCAGTTAAAGGA  
 AACTGGCAGTGCCTTTGAAGTGGAGCATGAATGCCTAGGCAAATGTCAGGGTTTTATTTGCACCCAGTTT  
 TATGTTACGCCTGATGCTCCGTGATTCATGTCTGGAGTGTGTGGAATGTTTGCACCCAGACGTTT  
 TGATGCATTCTCACAGATCACCTGACAAAAAAGTGGCCACTGGGGCTTTGAATCAGCTAAATGGCATTG  
 CTATCTTCATGTGAACAAAAAATACTTAGGAACACCTGAAGAAAAGAACTGAAGATAATTTAGAAGAA  
 ATGAAGGAGAAGTTTAGCATGAGAAGTGGAAAGAGAAATCAATCCAAGACAGATGCACCATCAGGAATGG  
 AATTACAGTCATGGTATCCTGTTATAAAGCAGGAAGGTGACCATTGTTTCTCAGACACATTCATTTTACA  
 CCCCAGCTACTACTTATACATGTGTGATAAAGTGGTTGCCCAAATGTGCACTTACTTCTGCTGTATCC  
 CAGTCTAAAGAGCTCACAAAGACAGAGGCAAGTAAGTCCATATCAAGACAGTCAGAGAAGGCTCACAGTA  
 GTGGTAACTTCAAAAAACAGTGTCTTATCCAGATGTCTCACTTGAGGAACAGGAGAAAAATGGATTTAAA  
 AACAGTAGAGAAATTATGTAGCCGTTTAGATGCATCAATCTCAAATAATTCTACAAGTAAAGGAAATCT  
 GAGTCTGCCACTTGCAACTTAGTCAGAGACATAAACAAGTGGGAATGGCCTTGTGCTGCCGCTTCAT  
 CTCGCTTCTTGTGAAAGATGTCATTTGTGAGGATGATAAGGGAAAAATCATGGAAGAAGTAATGAGAAC  
 TTATTTAAAACAACAGGAAAACTAACTTGATTTTGCAAAAGAAAGCAACAACCTCAGATGGAAGTAAAA  
 ATGTTGAGTAGTTCAAAATCTATGAAGGAACCTCACTGAAGAACAGCAGAATTTACAGAAAGAGCTTGAAT  
 CTTTGCAGAATGAACATGCTCAAAGAATGGAAGATTTTATGTTGAACAGAAAGACTTAGAGAAAAAATT  
 GGAGCAGATAATGAAGCAAAAAATGTACCTGTGACTCAAATTTAGAAAAAGACAAAGAGGCTGAATATGCA  
 GGACAGTTGGCAGAACTGAGGCAGAGATTGGACCATGCTGAGGCCGATAGGCAAGAACTCCAAGATGAAC  
 TCAGACAGGAACGGGAAGCAAGACAGAAGTTAGAGATGATGATAAAGAGCTAAAGCTGCAAATCTGAA  
 ATCATCAAAGACTGCTAAAGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233077 representing NM\_001248008  
 Red=Cloning site Green=Tags(s)

MENLQTNFSLVQGSTKKLNGMGDDGSPPAKKMITDIHANGKTINKVPTVKKEHLDDYGEAPVETDGEHVK  
 RTCTSVPETLHLNPSLKHTLAQFHLSSQSSLGGPAAF SARHSQESMSPTVFLPLPSPQVLPGLLIPSDS  
 STELTQTVLEGESISCFQVGGEKRLCLPQVLSVLRFTLQQINTVCEDELYIYCSRCTSDQLHILKVLGI  
 LPFNAPSCGLITL TDAQRLCNALLRPRTFPQNGSVLPKSSLAQLKETGSAFEVEHECLGKCQGLFAPQF  
 YVQPDAPCIQCLECCGMFAPQTFVMHSHRSPDKRTCHWGFESA KWHCYLHVNQYLGTPEEKLKIILEE  
 MKEKFSMRSGKRNQSKTDAPSGMELQSWYPVIKQEGDHVSQTHSFLHPSYLYMCDKVVAPNVSLTSAVS  
 QSKELTKTEASKISIRQSEKAHSSGKLQKTVSYPDVSLEEQEKMDLKTSRELCSRLDASISNNSTSKRKS  
 ESATCNLVRDINKVIGLVAASSPLLVKDVICEDDKGKIMEVMRTYLKQKEKLNILQKQQLQMEVK  
 MLSSSKSMKELTEEQNLQKELESQNEHAQRMEEFYVEQKDLEKKLEQIMKQKCTCDSNLEKDKEAAYA  
 GQLAELRQRLDHAEADRQELQDELQREARQKLEMMIKELKLQILKSSKTAKE

TRTRPLE - GFP Tag - V

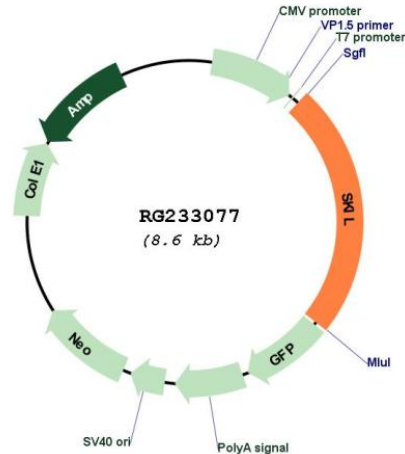
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_001248008

**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.

**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\\_001248008.1](#), [NP\\_001234937.1](#)

**RefSeq Size:** 7199 bp

RefSeq ORF: 2055 bp

Locus ID: 6498

UniProt ID: [P12757](#)

Cytogenetics: 3q26.2

Protein Families: Druggable Genome, Transcription Factors

**Gene Summary:** 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]