

Product datasheet for **RR210260**

Smo (NM_012807) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smo (NM_012807) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smo
Synonyms:	Smoh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR210260 representing NM_012807
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGCTGGCCGCCCGTGCCTGGGCCCCGAGCTGGCGCCCCGAGGCTGCTGCAGTTGCTGCTGCTGG
 TACTGCTTGGGGCCGGGGCCGGGGGGCGCCTTGAGCGGGAACGTGACCGGGCCTGGGCCCTCGCAGTGC
 CGGCGGGAGCGCGAGGAGGAACGCGCGGTGACCAGCCCTCCGCCCGCTGCTGAGCCACTGCGGCCGG
 GCCGCCACTGCGAGCCTTTGCGCTACAACGTGTGCCTGGGCTCCGCGCTGCCCTACGGAGCCACCACCA
 CGCTGCTGGTGGGACTCGGACTCGCAGGAGGAAGCGCACAGCAAGCTCGTGTCTGGTCCGGCCTCCG
 GAATGCTCCCGATGCTGGGAGTATCCAGCCCTGCTGTGTGTGTCTACATGCCAAGTGTGAAAAT
 GACCGAGTGGAGTTGCCAGCCGTACCCTCTGCCAGGCCACCCGAGGCCCTGTGCCATTGTGGAGCGGG
 AACGAGGGTGGCCTGACTTTCTGCGTTGCACGCCGGACCCTCCCTGAAGGCTGTCAAACGAGGTACA
 AAACATCAAGTTCAACAGTTCAAGCCAATGTGAAGCACCTTGGTGAGGACAGACAACCCCAAGAGCTGG
 TACGAGGACGTGGAGGGCTGTGGGATCCAGTGCCAGAACCCGCTGTTACCGAGGCTGAGCACCAGGACA
 TGCACAGTTACATCGCAGCCTTCGGGGCGGTACCCGGCCTCTGTACACTTTCACCTGGCCACCTTTGT
 GGCTGACTGGCGAACTCCAATCGCTACCCTGCGGTTATTCTTCTATGTCAATGCGTGTTTCTTTGTG
 GGCAGCATTGGCTGGCTGGCCAGTTTATGGATGGTGGCCGCCGGGAGATTGTTTGGCAGCAGATGGCA
 CCATGAGATTTGGGGAGCCACCTCCAGCGAGACCCTATCCTGTGTATCATCTTTGTATCGTGTACTA
 TGCCTTGATGGCTGGAGTAGTGTGGTTCGTGGTCCACCTATGCCTGGCACACCTCCTCAAAGCCCTG
 GGCACCACTTACCAGCCTCTCTCGGGCAAGACATCCTATTTCCACCTGCTCACGTGGTCACTCCCCTTCG
 TCCTCACTGTGGCAATCCTTGTGTGGTCAAGTAGATGGGACTCCGTGAGTGGCATCTGCTTTGTAGG
 CTAACAAGAACTACGGTACCGTGGCTTTGTACTTGCCTCAATTGGCCTGGTGTCTATTGTGGGAGGC
 TACTTCTCATCCGAGGGTCTGACTCTGTTCTCCATCAAGAGCAACCACCTGGGCTTCTGAGTGAGA
 AGGCAGCCAGCAAGATCAATGAGACCATGCTGCGCCTGGGCATTTTGGCTTCTCGCCTTTGGCTTCGT
 GCTCATCACCTTCCAGCTGCCACTTCTATGACTTCTCAACCAGGCTGAGTGGGAGCGTAGCTCCGGGAC
 TATGTGCTATGCCAAGCCAATGTGACCATTGGGCTGCCTACCAAGAAGCCATTCTGATTGTGAGATCA
 AGAATCGGCCAGCCTCCTGGTGGAGAAGATCAATCTGTTTGCATGTTTGGCACTGGCATTGCCATGAG
 CACCTGGGTCTGGACCAAGGCCACCCTGCTCATCTGGAGGCGCACCTGGTGCAGGTTGACTGGGCACAGT
 GATGATGAACCAAGAGAATCAAGAAAAGCAAGATGATTGCCAAGCCTTCTCTAAGCGGCGTGAAGTGC
 TGCAGAACCCGGGCCAGGAGCTCCTTTCAGCATGCACACTGTCTCCCATGATGGACCTGTTGCCGTTT
 GGCTTTTGAACCAATGAACCCTCAGCTGATGTCTCTCTGCCTGGGCCAGCACGTACCAAGATGGTG
 GCTCGAAGAGGAGCCATATTACCCAGGATGTGTCTGTACCCCTGTGGCAACTCCAGTGCCACCAGAAG
 AACCAAGCAACCTGTGGCTGGTTGAGGCAGAGATCTCCCAGAGTTAGAGAAGCGTTTAGGCCGGAAGAA
 GAAGCGGAGGAAGAGGAAGAAGGAGGTGTGCCCTTGGGGCCAGCCCCTGAACTTACCACCTCTGCCCT
 GTTCTGCCACCAAGTGCAGTTCTCGGCTGCCTCAGCTGCCTCGGCAGAAAGTGCCTAGTAGCTGCAATG
 CCTGGGGAACAGGAGAGCCCTGCCGACAGGGAGCCTGGACTGTAGTCTCAACCCCTTCTGCCAGAGCC
 TAGTCCCATCAAGATCCATTTCTCCTGGTGCCTCAGCCCCAGGGTCTGGGCTCAGGGCCGCCTCCAG
 GGGCTGGGATCCATTATTCCCGCACTAACCTAATGGAGGCTGAGCTCTGGATGCAGACTCGGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210260 representing NM_012807
Red=Cloning site Green=Tags(s)

MAAGRPVRGPELAPRRLQLLLLVLGGRRGAALSGNVTGPGPRSAGGSARRNAPVTSPPPPLLSHCGR
AAHCEPLRYNVCLGSALPYGATTTLLAGDSDSQEEAHSKLVLWSGLRNAPRCWAVIQPLLCAVYMPKCEN
DRVELPSRTLQCATRGPCAIIVERERGWPDFLRCTPDHFPEGCPNEVQNIKFNSSGQCEAPLVRTDNPKSW
YEDVEGCGIQCQNPLFTEAEHQDMHSYIAAFGAVTGLCTLFTLATFVADWRNSNRYPAVILFYVNACFFV
GSIGWLAQFMDGARREIVCRADGTMRFGEPTSSETLSCVIFVIVYYALMAGVVWFVVLTYAWHTSFKAL
GTTYQPLSGKTSYFHLLTWSLPFVLTVAI LAVAQVDGDSVSGICFVGYKNYRYRAGFVLAPIGLVLI VGG
YFLIRGVMTLFSIKSNHPGLLSEKAASKINETMLRLGIFGFLAFGFVLITFSCHFYDFFNQAEWERSFRD
YVLCQANVTIGLPTKKPDPCEIKNRPSLLVEKINLFAMFGTGIAMSTWVWTKATLLIWRRTWCRLTGHS
DDEPKRIKSKMIAKAFSKRRELLQNPQQLSFSMHTVSHDGPVAGLAFELNEPSADVSSAWAQHVTKMV
ARRGAILPQDVSVTPVATPVPPEEQANLWVLAEISPELEKRLGRKKRRKRKKEVCPLGPAPELHHSAP
VPATSAPRRLPQLPRQKCLVAANAWGTGEPQCRQGAWTVVSNPFCPEPSPHQDPFLPGASAPRVWAQGRQLQ
GLGSIHSRTNLMEALLDADSDF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_012807

ORF Size: 2379 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_012807.1](#), [NP_036939.1](#)

RefSeq Size: 2382 bp

RefSeq ORF: 2382 bp

Locus ID: 25273

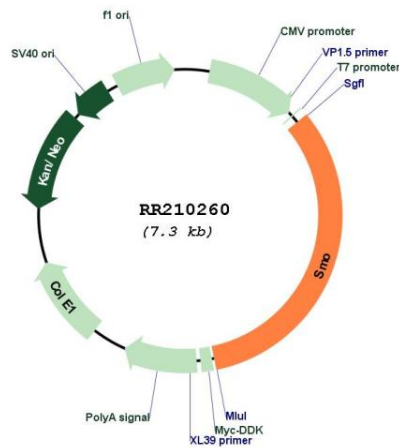
UniProt ID: [P97698](#)

Cytogenetics: 4q22

MW: 87.4 kDa

Gene Summary: may act as a signaling component of the Patched (Ptch) signaling pathway [RGD, Feb 2006]

Product images:



Circular map for RR210260