

Product datasheet for MC218049

Smo (BC048091) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smo (BC048091) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smo
Synonyms:	D13Mgj8, Smoh
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>BC048091 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCGCTGGCCGCCCCGTGCGTGGGCCCCGAGCTGGCGCCCCGAGGCTGCTGCAGTTGCTGCTGCTGG
TACTGCTGGGGGCCCCGGGCCGGGGGGCGCCCTTGAGCGGGAACGTGACCGGGCCCTGGCCCTCACAGCGC
CAGCGGGAGCTCGAGGAGGAACGTGCCGGTGACCAGCCCTCCGCCCGCTGCTGAGCCACTGCGGCCGG
GCCGCCACTGCGAGCCTTTGCGCTACAACGTGTCCCTGGGCTCGGCGCTGCCCTACGGAGCCACCACCA
CGCTGCTGGCTGGGGACTCGGACTCGCAGGAGGAAGCGCACGGCAAGCTCGTGCTCTGGTCCGGCCCTCCG
GAATGCCCCCGCTGCTGGGCAGTGATCCAGCCCTGCTGTGTGCTGTCTACATGCCAAGTGTGAGAAT
GACCGAGTGGAGTTGCCAGCCGTACCCTTGCCAGGCCACCCGAGGCCCTGTGCCATTGTGGAGCGGG
AGCGAGGGTGGCCTGACTTTCTGCGTTGCACACCGGACCCTTCCCTGAAGGCTGCCAAACGAGGTACA
AAACATCAAGTTCAACAGCTCAGGCAATGTGAAGCACCTTGGTGCGAACAGACAACCCCAAGAGCTGG
TATGAGGACGTGGAGGGCTGTGGGATTCAGTGTGAGAACCCGCTGTTACCGAGGCCGAGCACCAGGACA
TGACAGCTACATCGCAGCCTTCGGGGCGGTCACTGGTCTGACAGCTTTCACACTGGCCACCTTTGT
GGCTGACTGGCGGAACCTCAATCGCTACCCTGCGGTTATTCTCTTCTATGTCAATGCGTGTTCCTCGTG
GGCAGCATTGGCTGGCTGGCCCAGTTCATGGATGGTGCCCGGAGAGATTGTTTGCCGAGCAGATGGCA
CCATGAGATTTGGGGAGCCACCTCCAGTGAGACCCTGTCTGTGTCATCATCTTTGTGATTGTGACTA
TGCCTTGATGGCTGGAGTAGTCTGGTTCGTGGTCTCACCTATGCCTGGCACACCTCCTTCAAAGCCCTG
GGCACCACCTACCAGCCTCTCTCGGGCAAGACATCCTATTTCCACCTGCTCACGTGGTCACTCCCCTTTG
TCCTCACGGTGGCAATCCTGGCTGTGGCTCAGGTAGATGGAGACTCCGTGAGTGGCATCTGTTTTGTAGG
CTACAAGAACTATCGGTACCGTGTGGCTTTGTCTGGCCCAATTGGCCTGGTGTCTATTGTGGGAGGC
TACTTCTCATCACAGGGTTCATGACTCTGTTCTCCATCAAGAGCAACCACCCCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	BC048091
Insert Size:	1320 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:	<ol style="list-style-type: none">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:	<u>BC048091</u> , <u>AAH48091</u>
RefSeq Size:	1747 bp
RefSeq ORF:	1319 bp
Locus ID:	319757
Cytogenetics:	6 12.36 cM
Gene Summary:	G protein-coupled receptor that probably associates with the patched protein (PTCH) to transduce the hedgehog's proteins signal. Binding of sonic hedgehog (SHH) to its receptor patched is thought to prevent normal inhibition by patched of smoothened (SMO) (By similarity). Required for the accumulation of KIF7, GLI2 and GLI3 in the cilia. Interacts with DLG5 at the ciliary base to induce the accumulation of KIF7 and GLI2 at the ciliary tip for GLI2 activation (PubMed:25644602).[UniProtKB/Swiss-Prot Function]