

Product datasheet for **SC307665**

SMYD1 (NM_198274) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMYD1 (NM_198274) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMYD1
Synonyms:	BOP; KMT3D; ZMYND18; ZMYND22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_198274 edited
 GGGATGCTGAAGGTGCTGAAATAGCAATGACAAGAGACTTGGCTCAGTGTAAATAACTG
 CCGCGCTGGCCTGACAGTCTCTGAGATGACAATAGGGAGAATGGAGAACGTGGAGGTCTT
 CACCGCTGAGGGCAAAGGAAGGGGTCTGAAGGCCACCAAGGAGTTCTGGGCTGCAGATAT
 CATCTTTGCTGAGCGGGCTTATTCGCGAGTGGTTTTTGACAGCCTTGTTAATTTTGTGTG
 CCACACCTGCTTCAAGAGGCAGGAGAAGCTCCATCGTGTGGCAGTGCAAGTTTGCCCA
 TTACTGCGACCGCACCTGCCAGAAGGATGCTTGGCTGAACCACAAGAATGAATGTTTCGGC
 CATCAAGAGATATGGGAAGGTGCCAATGAGAACATCAGGCTGGCGGCGGCATCATGTG
 GAGGGTGAGAGAGAAGGCACCGGGCTCACGGAGGGCTGCCTGGTGTCCGTGGACGACTT
 GCAGAACCACGTGGAGCACTTTGGGGAGGAGGAGCAGAAGGACCTGCGGGTGGACGTGGA
 CACATTCTTGCACTACTGGCCGCGCAGAGCCAGCAGTTCAGCATGCAGTACATCTCGCA
 CATCTTCGGAGTGATTAAGTCAACGGTTTTACTCTCAGTGATCAGAGAGGCCTGCAGGC
 CGTGGGCGTAGGCATCTCCCAACCTGGGCTGGTGAACCATGACTGTTGGCCCAACTG
 TACTGTCAATTTAACAATGGCAATCATGAGGCAGTAAATCCATGTTTCATACCCAGAT
 GAGAATTGAGCTCCGGGCCCTAGGCAAGATCTCAGAAGGAGAGGAGCTGACTGTGTCTTA
 TATTGACTTCTCAACGTTAGTGAAGAAGCAAGAGGCAGCTGAAGAAGCAGTACTACTT
 TGACTGCACATGTGAACACTGCCAGAAAAACTGAAGGATGACCTCTTCTGGGGGTGAA
 AGACAACCCCAAGCCCTCTCAGGAAGTGGTGAAGGAGATGATACAATTCTCCAAGGATAC
 ATTGGAAAAGATAGACAAGGCTCGTTCGAGGGTTTGTATCATGAGGTTGTGAAATTATG
 CCGGGAGTGCCTGGAGAAGCAGGAGCCAGTGTGGTGTGACACCAACATCTACATGCTGCG
 GATGCTGAGCATTGTTTCGGAGGTCCTTCTACCTCCAGGCCTTGGAGGAGCCCTCGTT
 CTATGCCAGGAGGATGGTGGACGGCTATATGAAGCTCTACCACCCCAACAATGCCCAACT
 GGGCATGGCCGTGATGCGGGCAGGGCTGACCAACTGGCATGGTGGTAACATTGAGGTGGG
 GCACGGGATGATCTGCAAAGCCTATGCCATTCTCCTGGTGACACACGGACCCTCCCACCC
 CATCACTAAGGACTTAGAGGCCATGCGGGTGCAGACGGAGATGGAGCTACGCATGTTCCG
 CCAGAACGAATTCATGTACTACAAGATGCGCGAGGCTGCCCTGAACAACCAGCCCATGCA
 GGTGATGGCCGAGCCAGCAATGAGCCATCCCCAGCTCTGTTCCACAAGAAGCAATGAGG
 ACTGCCAGTGGAGGAGGGCGATGTGGCTGGGAGCTAGGGAGAGACTCTGGAGGTGGT
 GGGTCTCTGGGGAGACCCTAATGAGGAAGTTGAGGTAATGCTTAACATTGTTGCTGTGA
 GAATTTACTGCCCTGTGTTCCAGAGCCATTTGGCTCAATTCAAGTCTATTCAATTCA
 AGTTAACTCTAGCCAGCCAGATCAACTCCTCCTACAAATATTATTGGATGATAGGCC
 TAGAACCAATAAAGGAGCTCCAATGTCGTTGGTGGGGAAGCAAAATGTAGAGAAACA
 TTTAAAGCACACTGTAATAATAAATGCAATTATAAACTATATGGAGGAGGGTGCAGAGGA
 GGGAAATGTGTCTGGTGTGTGATGTGTGTGTGTCAGTGGGGTATCACAGAGAGTATGAC
 ATCTGAGTTGAGGGTAGCAGGTGCCTGGAGTCTCAGGTGGCTGCTCACCCATCTGTGCAG
 GTGTCTCTGGGGCTGCTGGTCTCACCTGTGGTCTCAGTAGACACAATTGGCTGAGCAGG
 ATATGTGATACTGTGTGGTTGGTGTGGAGTTTTGAAGAAGGGCTGTGTTGGGCCACGT
 AGGCTCTACTCAGAGACCTGAAACCACTTCAGAATGGCGCA

Restriction Sites: Please inquire

ACCN: NM_198274

Insert Size: 2200 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).

OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_198274.2 , NP_938015.1
RefSeq Size:	4364 bp
RefSeq ORF:	1473 bp
Locus ID:	150572
UniProt ID:	Q8NB12
Cytogenetics:	2p11.2
Protein Families:	Druggable Genome
Gene Summary:	Methylates histone H3 at 'Lys-4' (H3K4me), seems able to perform both mono-, di-, and trimethylation. Acts as a transcriptional repressor. Essential for cardiomyocyte differentiation and cardiac morphogenesis.[UniProtKB/Swiss-Prot Function]