

Product datasheet for **SC112435**

SMYD3 (NM_022743) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMYD3 (NM_022743) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMYD3
Synonyms:	bA74P14.1; KMT3E; ZMYND1; ZNFN3A1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_001167740 edited
GCTGGACGCGGGTAGCCGCTGAGGTGCCGGAGCTGCGGGAGGATGGAGCCGCTGAAGGT
GGAAAAGTTTCGCAACCGCCAACAGGGGAAACGGGCTGCGCGCCGTGACCCCGCTGCGCCC
CGGAGAGCTACTCTTCCGCTCGGATCCCTTGGCGTACACGGTGTGCAAGGGGAGTCGTGG
CGTCGTCTGCGACCGCTGCCTTCTCGGGAAGGAAAAGCTGATGCGATGCTCTCAGTGCCG
CGTCGCCAAATACTGTAGTGCTAAGTGTGCAAAAAAGCTTGGCCAGACCACAAGCGGGA
ATGCAAAATGCCTTAAAAGCTGCAAAACCCAGATATCCTCCAGACTCCGTTGACTTCTTGG
CAGAGTTGTCTTCAAACCTTATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCATT
TTATGATCTGGAGTCAAATATTAACAACTGACTGAAGATAAGAAAGAGGGCCTCAGGCA
ACTCGTAATGACATTTCAACATTTTCATGAGAGAAGAAATACAGGATGCCTCTCAGCTGCC
ACCTGCCTTTGACCTTTTGAAGCCTTTGCAAAAGTGATCTGCAACTCTTTCACCATCTG
TAATGCGGAGATGCAGGAAGTTGGTGTGGCCTATATCCCAGTATCTCTTTGCTCAATCA
CAGCTGTGACCCCACTGTTGATTGTGTTCAATGGGCCACCTTACTGCGAGCAGT
CCGAGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAG
TGAGGAGCGCCGAAGCAGCTGAGGGACCAGTACTGCTTTGAATGTGACTGTTTCCGTTG
CCAAACCCAGGACAAGGATGCTGATATGCTAAGTGGTATGAGCAAGTATGGAAGGAAGT
TCAAGAATCCCTGAAAAAATTGAAGAAGTGAAGGCACACTGGAAGTGGGAGCAGTTCT
GGCCATGTGCCAGGCGATCATAAGCAGCAATTCTGAACGGCTTCCCGATATCAACATCTA
CCAGCTGAAGGTGCTCGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGA
AGCCTTGTCTATGGTACTCGGACCATGGAGCCATACAGGATTTTTTCCAGGAAGCCA
TCCCGTCAGAGGGGTTCAAGTGATGAAAGTTGGCAACTGCAGCTACATCAAGGCATGTT
TCCCAAGCAATGAAGAATCTGAGACTGGCTTTTGATATTATGAGAGTGACACATGGCAG
AGAACACAGCCTGATTGAAGATTTGATTACTTTTTAGAAGAATGCGAGCCCAACATCAG
AGCATCCTAAGGGAACGCAGTCAGAGGGAATACGGCGTGTGCTTTGTTGAATGCCTTA
TTGAGGTCACACACTCTATGCTTTGTTAGCTGTGTGAACCTCTCCTATTGAAATCTGT
TCCGTGTTTGTGTAGGTAATAAAGGCAGACATGGTTTGCAAACCAAGAATCATTAGT
TGTAGAGAAGCACGATTATAATAAATTCAAAACATTTGGTTGAGGATGCCAAAAA
A
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_022743 unedited
GTTTAGATTTGTAACGACTTATATAGGCGGCCGCAATTCGCACGAGGGCTGGACGCG
GGTAGCCGCTGAGGTGCCGGAGCTGCGGGAGGATGGAGCCGCTGAAGGTGGAAAAGTTC
GCAACCGCCAACAGGGGAAACGGGCTGCGCGCCGTGACCCCGCTGCGCCCCGGAGAGCTA
CTCTTCCGCTCGGATCCCTTGGCGTACACGGTGTGCAAGGGGAGTCGTGGCGTCGTCTGC
GACCGCTGCCTTCTCGGGAAGGAAAAGCTGATGCGATGCTCTCAGTGCCCGCTCGCCAAA
TACTGTAGTGCTAAGTGTGCAAAAAAGCTTGGCCAGACCACAAGCGGGAATGCAAAATGC
CTTAAAAGCTGCAAAACCCAGATATCCTCCAGACTCCGTTGACTTCTTGGCAGAGTTGTC
TTCAAACCTTATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCATTATGATCTG
GAGTCAAATATTAACAACTGACTGAAGATAAGAAAGAGGGCCTCAGGCAACTCGTAATG
ACATTTCAACATTTTCATGAGAGAAGAAATACAGGATGCCTCTCAGCTGCCACCTGCCTTT
GACCTTTTGAAGCCTTTGCAAAAGTGATCTGCAACTCTTTCACCATCTGTAATGCGGAG
ATGCANGAAGTTGGTGTGGCCTATATCCCAGTATCTCTTTGCTCAATCACAGCTGTGAC
CCCAACTGTTGATTGTNGTCAATGGGCCACCTTACTGCGAGCAGTCCGAGACATC
GAGGTGGGAGAAGAGCTCACCATCTGCTACCTGGATATGCTGATGACCANNGTGAGAGCG
CCGGNAGCAGCTGAGGGACCAGTACTGCNTTGAATGTGACTGGTTNCCGTGCCNANCCNN
AGACAGGATGCTGATATGCTAAGTGGTGN
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3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_022743 unedited GCCGCAATCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTGGCATCCTCAACCAAATGTTTTG AATTTATTATAATCGTGTCTCTACAATAATGATTCTGTGGTTTGCAAACCATGTCT GCCTTTATTTACCTACACAAACACGGAACAGAATTTCCAATAGGAGAGGTTACACAGCT AACAAAGCATAGAGTGTGTGACCTCAATAAGGCATTCAACAAAGACACACGCCGTATTC CCTCTGACTGCGTCCCTTAGGATGCTCTGATGTTGGCGTCGATTCTTCTAAAAGTAGA ATCAAATCTTCAATCAGGCTGTGTTCTCTGCCATGTGTCCTCATAATATCAAAAGCC AGTCTCAGATTCTTCATTGCTTGGGAAACATGCCTTGATGTAGCTGCAGTTGCCAACT TTCATCACTTGAACCCCTCTGACGGGATGGCTTCTGGGAAAAAATCCTGTATGGCTCC ATGGTCCGAGTACCATAGAACAAGGCTTCTCCAACAGGCCGAGGTTGATGCAGGCATCC ATGGCGCAGTCGAGCACCTTCAGCTGGTAGATGTTGATATCGGGAAGCCGTTCAGAAATG CTGCTTATGATCGCTGGCACATGGCCAGAACCTGCTCCCACTTCCAGTGTGCCTTCAGT TCTTCAATTTTTTTCAGGGATTCTTGAACCTTCTCCATACTTGTCTATCACCAGTTAGC ATATCAGCATCCTTGTCTGGGTTTGGCAACCGAAACAGTCACATTCAAAGCAGTACTGG TCCCTCAGCTGCTTCGGCGCTTCTCACTGGTCATCAGCATATCCAGGTAGCAGATGGTG AGTCTCCTCCACCTCGATGTCTCGGACTGCTCGCAATAAGAGTGGGGGCCATTGAACA CATCAACAGTGGGGTAAAGCTGTGATGAGCAAAAACCTGGAATAGGCCACACCCTTCTCT GCTTTCGGATAAGGAGGGAAGAGTGCA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_022743
Insert Size:	1590 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_022743.1 , NP_073580.1
RefSeq Size:	1477 bp
RefSeq ORF:	1110 bp
Locus ID:	64754

UniProt ID: [Q9H7B4](#)

Cytogenetics: 1q44

Domains: SET, zf-MYND

Gene Summary: This gene encodes a histone methyltransferase which functions in RNA polymerase II complexes by an interaction with a specific RNA helicase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream translational start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.