

## Product datasheet for **SC324544**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_022743.1  
 GGACGCGGGTAGCCGTCTGAGGTGCCGGAGCTGCGGGAGGATGGAGCCGCTGAAGGTGGA  
 AAAGTTCGCAACCGCCAACAGGGGAAACGGGCTGCGCGCCGTGACCCCGCTGCGCCCCGG  
 AGAGCTACTCTCCGCTCGGATCCCTTGGCGTACACGGTGTGCAAGGGGAGTCGTGGCGT  
 CGTCTGCGACCGCTGCCTTCTCGGAAGGAAAAGCTGATGCGATGCTCTCAGTGCCGCGT  
 CGCCAAATACTGTAGTGTAAAGTGTGCAAAAAAGCTTGGCCAGACCACAAGCGGGAATG  
 CAAATGCCTTAAAGCTGCAAAACCCAGATATCCTCCAGACTCCGTTGACTTCTTGGCAG  
 AGTTGTCTTCAAACCTTATGGATGGAGCACCTTCAGAATCAGAGAAGCTTTACTCATTTTA  
 TGATCTGGAGTCAAATATTAACAAACTGACTGAAGATAGGAAAAGAGGGCCCTCAGGCAACT  
 CGTAATGACATTTCAACATTTTCATGAGAGAAGAAATACAGGATGCCTCTCAGTGCCACC  
 TGCCTTTGACCTTTTGAAGCCTTTGCAAAAGTGTCTGCAACTCTTACCATCTGTAA  
 TGGGAGATGCAGGAAGTTGGTGTGGCCTATATCCAGTATCTTTGCTCAATCACAG  
 CTGTGACCCCACTGTTGATTGTGTTCAATGGGCCCCACCTTACTGCGAGCAGTCCG  
 AGACATCGAGGTGGGAGAGGAGCTCACCATCTGCTACCTGGATATGCTGATGACCAGTGA  
 GGAGCGCGGAAGCAGCTGAGGGACCAGTACTGCTTTGAATGTGACTGTTCCGTTGCCA  
 AACCCAGGACAAGGATGCTGATATGCTAACTGGTATGAGCAAGTATGGAAGGAAGTTCA  
 AGAATCCCTGAAAAAATTGAAGAAGTGAAGGCACACTGGAAGTGGGAGCAGGTTCTGGC  
 CATGTGCCAGGCGATCATAAGCAGCAATTCTGAACGGCTTCCCGATCAACATCTACCA  
 GCTGAAGTGTCTGACTGCGCCATGGATGCCTGCATCAACCTCGGCCTGTTGGAGGAAGC  
 CTTGTTCTATGGTACTCGGACCATGGAGCCATACAGGATTTTTTTCCAGGAAGCCATCC  
 CGTCAGAGGGGTTCAAGTGTGAAAGTTGGCAACTGCAGCTACATCAAGGCATGTTTCC  
 CCAAGCAATGAAGAATCTGAGACTGGCTTTTGTATTATGAGAGTGACACATGGCAGAGA  
 ACACAGCCTGATTGAAGATTTGATTCTACTTTTGAAGAATGCGACGCCAACATCAGAGC  
 ATCCTAAGGGAACGCAGTCAGAGGGAAATACGGCGTGTGTCTTTGTTGAATGCCTTATTG  
 AGGTACACACTCTATGCTTTGTTAGCTGTGTAACCTCTCTATTGGAATTCTGTTCC  
 GTGTTTGTGTAGGTAATAAAGGCAGACATGGTTTGCAAACCACAAGAATCATTAGTTGT  
 AGAGAAGCAGATTATAATAAATTCAAACATTTGGTTGAGAAAAAAAAAAAAAAAAAAAA  
 AAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_022743

**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:**

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.