

## Product datasheet for RN216661

### Smyd2 (NM\_206851) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smyd2 (NM_206851) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Smyd2
Synonyms:	HSKM-B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN216661 representing NM_206851 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGCGCCGAGGCCCGGGCGGCTGGAGCGCTTCTGCAGCGCGGGCAAGGGCCGGGGCTCCGTGCGC  
TGGCGCCCTCCACGTGGGCGACCTCCTCTTCTCCTGCCGGCTACGCCGCTGCGTGCTCACCGTGGCGCA  
GCGGGCCACCCTGCGAGTGTCTTCCGAGAAAGAAGGATTGTCGAAATGTGGACGATGCAAGCAA  
GCCTTCTACTGCGATGTGGAGTGTGAGAAAGAAGACTGGCCCTGCACAAGCTGGAGTGTCTCCTCATGG  
TTGTTTTCGGGGAGAAGTGAATCCCTCGGAGACTGTGCGGCTCACAGCAAGGATCCTGGCCAAGCAGAA  
AATGCACCCAGAGAGGACACCTTCAGAGAAACTGTTGGCCGTGAGGGAGTTTGTGACATCTGGACAAG  
CTAGACAACGAGAAGAAGGATCTCATCCAGAGCGACATCGCGGCGCTCCATCAGTTCTACTCCAAGCACC  
TGGAGTCCCTGACCACAGCAGCCTTGTGGTGTCTTTGCCAGGTGAAGTGAATGGCTTCACTATTGA  
AGATGAGGAGCTCTCACTTGGGATCGGCGATATTTCTGATGTTGCGCTGATGAATCACAGCTGCTGC  
CCGAATGTCATTGTGACCTACAAAGTACCCTGGCAGAAGTCAAGCTGTGCAGGAGATCCACCCAGGAG  
ATGAGGTGTTACCAGTATATCGACCTGCTGTATCCAACAGAAGACAGGAACCGGTTAAGAGACTC  
CTACTTCTTACCTGTGAGTGGCGGAGTGTACGACCAAGGACAAGGACAAGGCCAAGGTGGAAATCCGG  
AAGCTCAGCAACCCACCTCAGGCAGAAGCCATCCGAGACATGGTCAGATACGCACGCAATGTCATCGAGG  
AGTTCGGAGGGCCAAGCACTACAAATCCCTAGTGAGCTGTTGGAAATCTGTGAGCTCAGCCAGGAGAA  
GATGAGCTCTGTGTTGAGGACAGCAATGTGTACATGCTACACATGATGTACCAGGCCATGGGCGTCTGC  
CTGTACATGCAGGACTGGGAAGGAGCCCTGAAATATGGCCAGAAGATCATCAAACCTACAGTAAGCACT  
ACCCCGTGTACTCCCTCAACGTGGCCTCCATGTGGCTGAAGTTGGGAAGACTGTACATGGGCTGGAGAA  
CAAAGCTGCCGGGAGAAGGCCCTGAAGAAGGCCATCGCCATCATGAAAATAGCTCATGGCAAGGACCAC  
CCGTACATCTCCGAGATCAAGCAGGAAATTGAGAGCCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_206851
<b>Insert Size:</b>	1302 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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).</p>
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_206851.1</a> , <a href="#">NP_996733.1</a>
<b>RefSeq Size:</b>	1592 bp
<b>RefSeq ORF:</b>	1302 bp
<b>Locus ID:</b>	289372
<b>UniProt ID:</b>	<a href="#">Q7M6Z3</a>
<b>Cytogenetics:</b>	13q27
<b>Gene Summary:</b>	Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys-860' (By similarity).[UniProtKB/Swiss-Prot Function]