

Product datasheet for **MC204022**

Smyd2 (NM_026796) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Smyd2 (NM_026796) Mouse Untagged Clone
Tag: Tag Free
Symbol: Smyd2
Synonyms: 1110020E07Rik; 4930402C15; KMT3C; Zmynd14
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >BC023119

```
GCCGCCAGCATGCGCGCCGAGGCCCGCGCGCCCTGGAGCGCTTCTGCAGTGCGGGCAAGGGCCGGGGG
TCCGCGCGCTGCGGCCCTCCACGTGGGCGACCTCCTCTTCTCCTGCCCGCCTACGCTGCGTGCTCAC
CGTGGGCGAGCGGGCCACCACTGCGAGTGTCTCGCCAGGAAAGAAGGATTGTCAAAATGTGGACGG
TGCAAGCAGGCGTTCTACTGCGAGTGGAAATGTGAGAAGGAAAGACTGGCCCTGCACAAGCTGGAATGCT
CCTCCATGGTTGTTTTGGGGGAGAACTGGAATCCTTCGGAGACTGTGCGGCTCACAGCAAGAATTCTGGC
CAAACAGAAAAATCCACCCAGAGAGGACACCTTCAGAGAAATTGTTGGCTGTGAGGGAGTTTGAGTCACAT
CTGGACAAGCTAGACAACGAGAAGAAAGATCTCATCCAGAGTGACATCGCCGCTCTCCACAGTTCTACT
CCAAGTACCTGGAATCCCTGACCACAGCAGTCTCGTGGTGTCTTCGCCAGGTGAAGTGAATGGCTT
CACTATTGAAGATGAAGAGCTCTCCATTTGGGATCGGCGATATCCCTGATGTTGCATTGATGAATCAC
AGCTGCTGCCGAATGTCATTGTGACCTACAAAGGGACCCTGGCAGAAGTCAGAGCTGTACAGGAGATCC
ACCCAGGAGACGAGGTGTTACCCAGCTACATCGACCTGCTATATCCAACGAGAAGACAGGAACGACCGGT
AAGAGACTCCTATTTCTTACCTGTGAGTGCCGGGAGTGTACAACCAAGGATAAGGACAAAGCCAAGGTG
GAAGTCCGAAAGCTCAGCAGCCCGCCACAGGCAGAAGCCATCCGAGACATGGTCAGATACGCACGCAATG
TCATCGAGGAGTCCGGAGGGCCAAACACTACAAATCCCTAGTGAGCTGCTGGAGATCTGCGAGCTTAG
CCAGGAGAAGATGAGCTCCGTGTTTGGGACAGCAATGTGTACATGCTGCACATGATGTACCAGGCCATG
GGCGTCTGCCTGTACATGCAGGACTGGGAGGGAGCCCTGAAATACGGGCAGAAGATCATTAAAGCCGTACA
GTAAGCACTACCCCGTGTACTCCCTCAACGTGGCTTCCATGTGGCTGAAGCTGGGAAGACTGTACATGGG
TCTGAAAACAAAGCGGCCGCGAGAAGGCCCTGAAGAAGGCCATTGCCATCATGGAGGTAGCTCACGGC
AAGGACCATCCGTACATCTCTGAAATCAAGCAGGAGATTGAGAGCCACTGACTGCACCCAGCTTTCCGT
CTGCGACCTCACTCACAGGACTTGAGTATTTCCGACCTCACGGGTCAACCCAGCCCTCTGAAAAGCCTTG
CCGTGCTATGTTTCAGGTTACGTTTACGCTCTGACCTTGAGTTTCAATTTCCAGTGCTTGCCTTCTCCAA
GGCCATGGCATGAGTTCACAGAAATATATTTTCGGCAGATTGAGCTTTAGAGATGCAACGACTTTTCCC
TCTGTGCTGTAGGAATGCTCAGTGGAGCTGACCGAGGAAGAAAATAAAAGAGCCAGTCATTGAAAAAAA AAAAAAAA
```

Restriction Sites: RsrII-NotI



[View online »](#)

ACCN:	NM_026796
Insert Size:	1302 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:	BC023119 , AAH23119
RefSeq Size:	1619 bp
RefSeq ORF:	1302 bp
Locus ID:	226830
UniProt ID:	Q8R5A0
Cytogenetics:	1 H6
Gene Summary:	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'. [UniProtKB/Swiss-Prot Function]