

Product datasheet for SC113170

SMYD2 (NM_020197) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SMYD2 (NM_020197) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | SMYD2 |
| Synonyms: | HSKM-B; KMT3C; ZMYND14 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC113170 sequence for NM_020197 edited (data generated by NextGen Sequencing) |

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ATGAGGGCCGAGGGCCTCGGCGGCTGGAGCGCTTCTGCAGCCCGGCAAGGCCGGGG
CTGCGGGCTCTGCAGCCCTTCCAGGTGGGGACTTGCTGTTCTCCTGCCCGCCTATGCC
TACGTGCTCACGGTCAACGAGCGGGCAACCACTGCGAGTACTGTTACCAGGAAAAGAA
GGATTGTCCAATGTGGAAGATGCAAGCAGGCATTTTACTGCAATGTGGAGTGTGAGAAA
GAAGATTGGCCCATGCACAAGCTGGAATGTTCTCCCATGGTTGTTTTGGGAAAAGTGG
AATCCCTCGGAGACTGTAAGACTAACAGCAAGGATTCTGGCCAAACAGAAAATCCACCCA
GAGAGAACACCTTCGGAAAAATTGTTAGCTGTGAAGGAGTTTGAATCACATCTGGATAAG
TTAGACAATGAGAAGAAGATTTGATTCAGAGTGACATAGCTGCTCTCCATCACTTTTAC
TCCAAGCATCTCGAATTCCTGACAATGATAGCCTCGTAGTACTTTGCACAGGTTAAC
TGTAATGGCTTCACAATTGAAGATGAAGAACTTTCTATTTGGGATCAGCGATATTTCT
GATGTTGCATTGATGAATCATAGCTGTTGCCCAATGTCATTGTGACCTACAAAGGGACC
CTGGCAGAAGTCAGAGCTGTACAGGAAATCAAGCCGGGAGAGGAGTTTTTACCAGCTAT
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AAGCTCAGCGATCCCCAAAGGCAGAAGCCATCCGAGACATGGTCAGATATGCACGCAAC
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CACATGATGTACCAGCCATGGGTGTCTGCTTGTACATGCAGGACTGGGAAGGAGCCCTG
CAATATGGACAGAAAATCATTAAGCCCTACAGTAAGCACTATCCTTTGTAAGTCCCTCAAC
GTGGCCTCCATGTGGTTGAAGCTAGGGAGACTCTACATGGGCCTGGAACACAAAGCCGCA
GGGGAGAAAGCCCTGAAGAAGGCCATTGCAATCATGGAAGTAGCTCACGGCAAAGATCAT
CCATATATTTCTGAGATCAAACAGGAAATTGAAAGCCACTGA

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Clone variation with respect to NM_020197.2
494 g=>a



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_020197 unedited
 GCAAATTTTGTATACGACTCATATAGGCGGCNCGGAATCGGCACGAGGCCTCGTGCCGA
 ATTCGGCACGAGGCGCGCCCCGCGCCACCATGAGGGCCGAGGGCCTCGGCGGCCTGGAG
 CGTTTCTGCAGCCCGGGCAAAGGCCGGGGCTGCGGGCTCTGCAGCCCTCCAGGTGGGG
 GACTTGCTGTTCTCTGCCCGCCTATGCCTACGTGCTCACGGTCAACGAGCGGGGCAAC
 CACTGCGAGTACTGCTTACCAGGAAAGAAGGATTGTCCAAATGTGGAAGATGCAAGCAG
 GCATTTTACTGCAATGTGGAGTGCAGAAAGAAGATTGGCCCATGCACAAGCTGGAATGT
 TCTCCCATGGTTGTTTTGGGAAAACCTGGAATCCCTCGGAGACTGTAAGACTAACAGCA
 AGGATTCTGGCCAAACAGAAAATCCACCCAGAGAGAACACCTTCGAAAAATTGTTAGCT
 GTGAAGGAGTTTGAATCACATCTGGATAAGTTAGACAATGAGAAGAAGATTTGATTCAG
 AGTGACATAGCTGCTCTCCATCACTTTTACTCCAAGCATCTCGAATTCCTGACAATGAT
 AGCCTCGTAGTACTCTNTGCACAGGTTAACTGTAATGGCTTACAATTGAAGATGAAGAA
 CTTTCTCATTGGGATCAGCGATATTTCTGATGTTGCATTGATGAATCATAGCTGNTGC
 CCCAATGTCAATTGTGACCTANCAAGGACCCTGNCAGNAGTCAGAGCTGTACAGGAAATCA
 AGCCNNGGAGAGNAGTTTTTACCAGCTATATTGATCTNCTGTACCCCAACGGAGATAGA
 ATGACCCGGTTAGAGATTCTTATTTCTTACCTGTGAGTGCCAGGATGTACCACCAAGACA
 GGATAGGGCCAGTGAATCNCGAGCTCNCGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_020197 unedited
 GGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTCTCTTTAATACTTTTCATCATT
 AAGTTTGTTCAGAACATTACAAGAGGCATGAAAGAAAAAATAATTCCATTTTTAAAAC
 TGCTGTCCAAAGTATAACATATGAAACCATGCCATTATCTCTTAGGAAACAAAAGCATT
 CAAAATTAATTTGGTATTAAGTTCAAGATTCAGACTAACCTCAAAGTACGGCATGTGCA
 GTGTTTAAAGTGAAGAAGTATTTTCATTCCAATATTTTACAGAGATGCTGGAGTGACGT
 GTGCAATTTGAAATATTCAAATCCTTTAAGGTTTCTGAACTAAGTGTAAATGAAAAC
 GAAATGCTGCATAGTTTTCAGTGGCTTTCAATTTCTGTTTGTATCTCAGAAATATATGGAT
 GATCTTTGCCGTGAGCTACTTCCATGATTGCAATGGCCTTCTTCAGGGCTTTCTCCCCTG
 CGGCTTTGTGTTCCAGGCCCATGTAGAGTCTCCCTAGCTTCAACCACATGGAGGCCACGT
 TGAGGGAGTACAAAGGATAGTGTACTGTAGGGCTTAATGATTTTCTGTCCATATTGCA
 GGGCTCCTTCCCAGTCTGCATGTACAAGCAGACCCATGGCCTGGTACATCATGTGCA
 ACATGTACACGTTACTGTCTCAAACACAGAGCTCATCTTCTCCTGGCTGAGCTCGAGA
 TCTCCAGCAGCTCACTAGGGGATTNATAGTGCTTGGCCCTCCGGAACCTTCATGACGTT
 CGGTGCATATCTGACCATGTCTCGGATGGCTNCTGCCTTTGGGGGATCGTGAGCTTCGG
 AATTTACCTTGCTTATNCTTTGTCTGGANGGACACTCTGGCCTCACAGTNAAGAAATA
 GAATTTAAACGTCATTTTATCTTCGTAGGACAGGAAACAATTAGCTGGTAAACCTCCTT
 CCGGTTGT

Restriction Sites:

NotI-NotI

ACCN:

NM_020197

Insert Size:

1820 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:

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_020197.1](#), [NP_064582.1](#)

RefSeq Size: 1694 bp

RefSeq ORF: 1302 bp

Locus ID: 56950

UniProt ID: [Q9NRG4](#)

Cytogenetics: 1q32.3

Domains: SET, zf-MYND

Protein Families: Druggable Genome

Gene Summary: SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM, Nov 2008]