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Product datasheet for MC216431

Smyd1 (NM_009762) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smyd1 (NM_009762) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smyd1
Synonyms:	4632404M21Rik; Bop; C78565; Zmynd18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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>MC216431 representing NM_009762
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAATAGGCAGCATGGAGAACGTGGAGGTCTTCACTTCCGAGGGCAAAGGCAGAGGTCTGAAGGCTA
CGAAGGAGTTCTGGGCTGCGGATGTCATCTTTGCGGAGAGGGCTTATTCTGCAGTGGTTTTTGACAGCCT
CATTAACTTCGTGTGCCACACCTGCTTCAAGAGGCAGGAGAAGCTCCATCGCTGCGGGCAGTGCAAGTTC
GCCCATTACTGCGACCGCACGTGCCAGAAGGATGCTTGGCTGAATCACAAGAACGAGTGCGCTGCCATCA
AGAAATATGGGAAAGTGCCCAACGAGAACATCAGGCTGGCCGCCCGCATCATGTGGCGGGTGGAGAGAGA
GGGCACTGGGCTCACAGAGGGCTGCCTGGTGTCCGTGGATGACTTACAGAACCACGTGGAGCACTTTGGG
GAGGAGGAGCAGAAGGAACTCCGAGTAGACGTGGACACGTTCTTGCAGTACTGGCCACCACAGAGCCAGC
AGTTCAGCATGCAGTATATCTCACACATCTTTGGTGTGATCAACTGCAACGGTTTCACTCTCAGTGACCA
GAGAGGGCTACAGGCAGTAGGTGTGGGCATCTTCCCCAACCTGGGCCTGGTGAACCATGATTGCTGGCCA
AACTGCACTGTCATATTCAACAATGGCAAGATTGAGCTCCGGGCCCTGGGCAAGATCTCAGAAGGCGAGG
AGCTGACTGTGTCCTACATAGACTTCCTGCACCTCAGTGAGGAGCGCAGGCGGCAGCTGAAGAAACAGTA
CTACTTTGACTGCTCCTGTGAGCACTGCCAGAAGGGGCTGAAGGACGACCTCTTCCTGGCAGCGAAGGAA
GACCCCAAGCCCTCCCAGGAAGTGGTGAAGGAGATGATACAATTCTCAAAGGATACACTGGAAAAAATAG
ACAAGGCTCGCTCCGAGGGTTTGTATCACGAGGTTGTGAAGCTGTGTCGGGAGTGCCTGGAGAAGCAGGA
GCCAGTGTTCGCCGACACCAACCTCTACGTGCTTCGGCTGCTCAGCATTGCATCAGAGGTCCTCTCCTAC
CTCCAGGCCTATGAGGAGGCCTCACATTATGCCAGGAGGATGGTTGATGGCTACATGAAACTCTACCACC
ATAACAATGCCCAACTGGGCATGGCTGTGATGAGGGCAGGGCTTACCAACTGGCATGCTGGTCACATCGA
AGTGGGGCATGGGATGATCTGCAAAGCCTATGCTATTCTCCTGGTGACCCATGGACCCTCCCACCCTATC
ACCAAAGACTTAGAGGCCATGCGGATGCAGACAGAGATGGAGCTGCGTATGTTCCGCCAAAACGAATTCA
TGTATCACAAGATGCGAGAGGCTGCCCTGAACAACCAGCCCATGCAGGTCATGGCTGAGCCTAGCAATGA
ACCAGCCCCCGCTCTGTTCCATAAGAAGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites: SgfI-MluI

ACCN: NM_009762

Insert Size: 1434 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.

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RefSeq:	NM_009762.2, NP_033892.2
RefSeq Size:	3340 bp
RefSeq ORF:	1434 bp
Locus ID:	12180
UniProt ID:	P97443
Cytogenetics:	6 32.14 cM
Gene Summary:	Methylates histone H3 at 'Lys-4' (H3K4me). Acts as a transcriptional repressor. Essential for cardiomyocyte differentiation and cardiac morphogenesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an in-frame exon in the CDS, as compared to variant 1. The resulting isoform (2) lacks an internal segment, as compared to isoform 1. CCDS Note: The coding region has been updated to extend the N-terminus to one that is supported by available conservation data.

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