

Product datasheet for **MC222265**

Sfmbt1 (NM_001166531) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfmbt1 (NM_001166531) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sfmbt1
Synonyms:	4930442N21Rik; 9330180L21Rik; AA536974; Sfmbt; Smr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222265 representing NM_001166531
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGCGGGGAGCAGCAGCTTGATGCAGATCTTGGGTCTGGTGTAGAAGTAGAAGAATTCAGCTGGGAAG
 ATTATCTAGAAGAGACAGGCTCCACCACAGTTCCTACGCATCGTTTAAACATGTGGATATACGTTTGCA
 AAATGGATTTGCTCCTGGGATGAAGCTGGAGGTAGCTCTGAAAAATGACCCTGAGACTTATTGGGTGCGC
 ACCATCATCACCGCCTGTGAGCAGTTGCTCCTGCTTCGTTATGAAGGCTATGGGAAGACCGAAAAGCAG
 ACTTCTGGTGTGACATCAGGAAAGCTGGCCTCTACCCATTGGGTGGTGTGAGCAGAACAGAAGACCCCT
 CGAAGCTCCAGAAGGCATCAGAGATAAAGTGTCTGATTGGAATGCATTCTACAGCAGACCCCTGATAGGA
 GCCTGTGGTCTCCCGTGTCTGCTAGAGGGCCTCCGTAATGGAAGGAATCCTTTAGATCTCATTGCTC
 CAGGGTCCAACTAGAATGCCAGGATTTTCGGGACTCTTTAAGCACTTGGCTTGTACTGTTGTGGAGAA
 CATTGGGGGACGTTGAAGCTGCGGTATGAAGGCCTTGAGAGCCGTGACGTTTTGAACACTGGTGTAT
 TACTTAGATCCATTTCTTCATCACATTGGTTGGGCTGCTCAGCAAGGATGTGACCTTCAGCCCCATTAG
 CCATCAAACATCTGAAGAGTGAAGCTGACTGGCAAGAGATTTTGCCAAAGTGAAGAGGAAGAGCCATT
 ACCCTCTTACTTATTTAAGGATAAGCAAGTTATTGGAACCCATGAATTTTCTATAAACATGAAGTTGAA
 GCTGTGGACCCGTGGTCTCCTTTTGGGATTTCTCTGCAACGATTGCTAAGGTGTTTGATGATAAGTACT
 TTCTAGTGGAATGGATGACCTTCGGCCAGAAGACCATAACAAGGCGATCATTGTGTGCCATGCTAACAG
 TCCTGGTATCTTCTGTGCAGTGGAGTCTAAGAATGGTTTACATATCAATCCTCCTCCAGGCTTCCGG
 AGCCAGGACTTTGACTGGGCCGACTACCTCAAGCAGTGTGGGGCTGAAGTGTCTCCCAAGAGTCTTCC
 CGCAGTCAATTTCTGAGCACCAGTTTAAGGAGAACATGAACTGGAGGCAGTGAACCTCTTTTCCCTGA
 AGAAGTGTGCATTGCCACCGTTACTGCAGTGAGAGGCTCGTACCTGTGGCTCCAGCTAGAAGGTTCTAAG
 AAGCCTGTACCCGAATTTATTGTAAGTGCAGAGTCGATGAATATATTTCTTTGGGCTGGTGTGAAACCA
 ATGGCCATCCTCTCAGTACTCCTCGCCGGGCACGAGGGCATAAACTGAGGAAAATCGCAGTGGTTC AAC
 AGAAAAACAAATACTGTCTTCAAGAACTGTCCACGAGGGCCTGAAGAAATCAGCTGAACCTCTACCCACTCA
 GTGATGATCAATGGAAAATACTGTTGTCCAAAGATATACTTCAACCACCGTTGCTTCTCAGGGCCATATC
 TTAATAAAGGAAGAATTGCTGAGCTGCCTCAATGTGTGGGACCTGGAACTGCGTTCTGGTACTTAGAGA
 GGTTCTTACTTTGCTTATCAACGCAGCATACAAACCCAGCCGCTCCTCCGTGAGCTCCAGCTGGACAAA
 GACTCTGTGTGGCACGGATGTGGGAAGTCTAAAGGCCAAATATAAAGGAAAGAGTTACCGAGCTACTG
 TTGAGATAGTGAGAACAGCAGACCGAGTGAATTCTGCCGGCAAACATGCATCAAGCTGGAATGTTG
 TCCCAACCTCTTTGGTCCACGCATGGTTCTGGATACATGTTCTGAGAATTGCTCTGTCTCTACAAAGACC
 AAATACACGCACTATTATGGAAAGAAGAAAAATAAGAGAATTGGGAGGCCACCCGGTGGGCATAGTAATT
 TATCTTGTGCCCTGAAAAAAGCAGTAAGAGGAGAAAAAGGCGGAAGAATATTTTGTTCATAAGAAGAA
 GCGTCTTCTGTCATCTGTTGACAATACCCCGTGGGCTCACCCAGGGAAGTGGGGTGAAGATGAGGAG
 GATGCAGATGATGGAGACGAAGACTCCCTGACTGAGGGCAGTACATCCGAGCAGCAGGAGGAGTTGCAGG
 AGGAGTCTGAGGTGTGAGAGAAAAATCTAGCTCCTCGTCTCCACCCAGAGTGAGACGCCACCCCTT
 ACCCCAGACACGCAGACCAACAAGAGAGATGCCAGACCTCCTCCGTCTCAGACGATGAAAAACAAGCCT
 CCTTCACCAAAGGAAATAAGGATTGAAGTTGATGAAAGGCTTCACTGGACAGTAACCCACTGAAGTGGA
 GTGTGGCCGATGTCGTGCGGTTATCAGGTCCACTGACTGTGCTCCGTTGGCAAGAATATTCCTTGATCA
 GGAAATCGACGGGCAGGCCCTTTTGTCTTACCCTTCCCACTGTTCAAGAGTGCATGGACTTAAAGTTG
 GGCCCCGCCATCAAGCTTTGCCATCACATAGAGAGAATCAAGTTTGCTTTTATGAGCAGTTTGCCAACT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001166531
Insert Size: 2592 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001166531.1, NP_001160003.1</u>
RefSeq Size:	7743 bp
RefSeq ORF:	2592 bp
Locus ID:	54650
UniProt ID:	<u>Q9JMD1</u>
Cytogenetics:	14 18.99 cM
Gene Summary:	Histone-binding protein, which is part of various corepressor complexes. Mediates the recruitment of corepressor complexes to target genes, followed by chromatin compaction and repression of transcription. Plays a role during myogenesis: required for the maintenance of undifferentiated states of myogenic progenitor cells via interaction with MYOD1. Interaction with MYOD1 leads to the recruitment of associated corepressors and silencing of MYOD1 target genes. Part of the SLC complex in germ cells, where it may play a role during spermatogenesis.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) represents use of an alternate promoter and 5' UTR, compared to variant 1. Variants 1, 2, and 3 all encode the same protein. 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.