OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR219134

Sfmbt1 (NM_001166532) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sfmbt1 (NM_001166532) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sfmbt1
Synonyms:	4930442N21Rik; 9330180L21Rik; AA536974; Sfmbt; Smr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR219134 representing NM_001166532
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGGGGAGCAGCAGCTTGATGCAGATCTTGGGTCTGGTGTAGAAGTAGAAGAATTCAGCTGGGAAG
ATTATCTAGAAGAGACAGGCTCCACCACAGTTCCCTACGCATCGTTTAAACATGTGGATATACGTTTGCA
AAATGGATTTGCTCCTGGGATGAAGCTGGAGGTAGCTCTGAAAAATGACCCTGAGACTTATTGGGTTGCC
ACCATCATCACCGCCTGTGAGCAGTTGCTCCTGCTTCGTTATGAAGGCTATGGGGAAGACCGAAAAGCAG
ACTTCTGGTGTGACATCAGGAAAGCTGGCCTCTACCCCATTGGGTGGTGTCAGCAGAACAAGAAGACCCT
CGAAGCTCCAGAAGGCATCAGAGATAAAGTGTCTGATTGGAATGCATTCCTACAGCAGACCCTGATAGGA
GCCTGTGGTCCTCCCGTGTCTCTGCTAGAGGGCCTCCGTAATGGAAGGAATCCTTTAGATCTCATTGCTC
CAGGGTCCAAACTAGAATGCCAGGATTTTCGGGACTCTTTAAGCACTTGGCTTGTTACTGTTGTGGAGAA
CATTGGGGGACGGTTGAAGCTGCGGTATGAAGGCCTTGAGAGCCGTGACGGTTTTGAACACTGGTTGTAT
TACTTAGATCCATTTCTTCATCACATTGGTTGGGCTGCTCAGCAAGGATGTGACCTTCAGCCCCCATTAG
CCATCAAACATCTGAAGAGTGAAGCTGACTGGCAAGAGATTTTGGCCAAAGTGAAAGAGGAAGAGCCATT
ACCCTCTTACTTATTTAAGGATAAGCAAGTTATTGGAACCCATGAATTTTCTATAAACATGAAGTTGGAA
GCTGTGGACCCGTGGTCTCCTTTTGGGATTTCTCCTGCAACGATTGCTAAGGTGTTTGATGATAAGTACT
TTCTAGTGGAAATGGATGACCTTCGGCCAGAAGACCATACAAGGCGATCATTTGTGTGCCATGCTAACAG
TCCTGGTATCTTTCCTGTGCAGTGGAGTCTAAAGAATGGTTTACATATCAATCCTCCTCCAGGCTTCCGG
AGCCAGGACTTTGACTGGGCCGACTACCTCAAGCAGTGTGGGGCTGAAGCTGCTCCCCAGAAGTGCTTCC
CGCAGTCAATTTCTGAGCACCAGTTTAAGGAGAACATGAAACTGGAGGCAGTGAACCCTCTTTTCCCTGA
AGAAGTGTGCATTGCCACCGTTACTGCAGTGAGAGGCTCGTACCTGTGGCTCCAGCTAGAAGGTTCTAAG
AAGCCTGTACCCGAATTTATTGTAAGTGCAGAGTCGATGAATATATTTCCTTTGGGCTGGTGTGAAACCA
ATGGCCATCCTCTCAGTACTCCTCGCCGGGCACGAGGGCATAAACTGAGGAAAATCGCAGTGGTTCAACC
AGAAAAACAAATACTGTCTTCAAGAACTGTCCACGAGGGCCTGAAGAATCAGCTGAACTCTACCCACTCA
GTGATGATCAATGGAAAATACTGTTGTCCAAAGATATACTTCAACCACCGTTGCTTCTCAGGGCCATATC
TTAATAAAGGAAGAATTGCTGAGCTGCCTCAATGTGTGGGACCTGGGAACTGCGTTCTGGTACTTAGAGA
GGTTCTTACTTTGCTTATCAACGCAGCATACAAACCCAGCCGCGTCCTCCGTGAGCTCCAGCTGGACAAA
GACTCTGTGTGGCACGGATGTGGGGAAGTCCTAAAGGCCAAATATAAAGGAAAGAGTTACCGAGCTACTG
TTGAGATAGTGAGAACAGCAGACCGAGTGACTGAATTCTGCCGGCAAACATGCATCAAGCTGGAATGTTG
TCCCAACCTCTTTGGTCCACGCATGGTTCTGGATACATGTTCTGAGAATTGCTCTGTCCTTACAAAGACC
AAATACACGCACTATTATGGAAAGAAGAAAAATAAGAGAATTGGGAGGCCACCCGGTGGGCATAGTAATT
TATCTTGTGCCCTGAAAAAAAGCAGTAAGAGGAGAAAAAGGCGGAAGAATATTTTTGTTCATAAGAAGAA
GCGTTCTTCTGCATCTGTTGACAATACCCCGGTGGGCTCACCCCAGGGAAGTGGGGGTGAAGATGAGGAG
GATGCAGATGATGGAGACGAAGACTCCCTGACTGAGGGCAGTACATCCGAGCAGCAGGAGGAGTTGCAGG
AGGAGTCTGAGGTGTCAGAGAAAAAATCTAGCTCCTCGTCTCCCACCCAGAGTGAGACGCCCACCCCCTT
ACCCCCAGACACGCAGACCAACAAGAGAGATGCCCAGACCTCCTCCGTCTCAGACGATGAAAACAAGCCT
CCTTCACCAAAGGAAATAAGGATTGAAGTTGATGAAAGGCTTCACCTGGACAGTAACCCACTGAAGTGGA
GTGTGGCCGATGTCGTGCGGTTCATCAGGTCCACTGACTGTGCTCCGTTGGCAAGAATATTCCTTGATCA
GGAAATCGACGGGCAGGCCCTTTTGCTCCTTACCCTTCCCACTGTTCAAGAGTGCATGGACTTAAAGTTG
GGCCCCGCCATCAAGCTTTGCCATCACATAGAGAGAATCAAGTTTGCTTTTTATGAGCAGTTTGCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

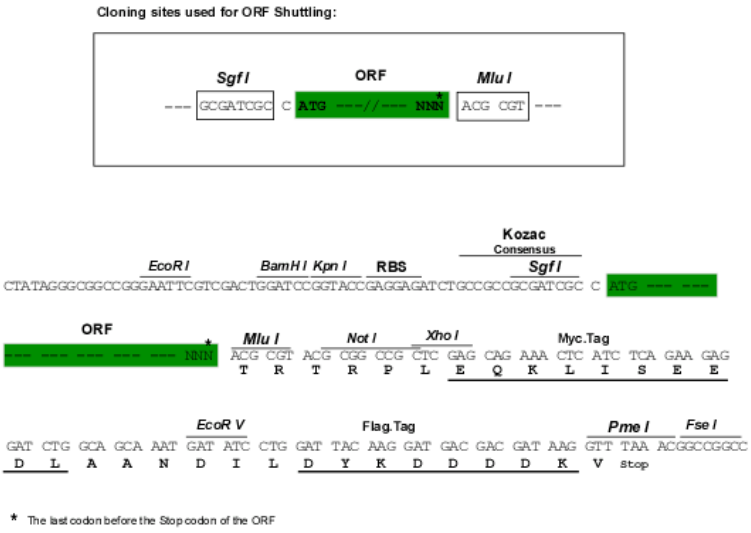
>MR219134 representing NM_001166532
Red=Cloning site Green=Tags(s)

MSGEQQLDADLGSGVEVEEFSWEDYLEETGSTTVPYASFKHVDIRLQNGFAPGMKLEVALKNDPETYWVA
TIITACEQLLLLRYEGYGEDRKADFWCDIRKAGLYPIGWCQQNKKTLEAPEGIRDKVSDWNAFLQQTLIG
ACGPPVSLLEGLRNGRNPLDLIAPGSKLECQDFRDSLSTWLVTVVENIGGRLKLRYEGLESRDGFEHWLY
YLDPFLHHIGWAAQQGCDLQPPLAIKHLKSEADWQEILAKVKEEEPLPSYLFKDKQVIGTHEFSINMKLE
AVDPWSPFGISPATIAKVFDDKYFLVEMDDLRPEDHTRRSFVCHANSPGIFPVQWSLKNGLHINPPPGFR
SQDFDWADYLKQCGAEAAPQKCFPQSISEHQFKENMKLEAVNPLFPEEVCIATVTAVRGSYLWLQLEGSK
KPVPEFIVSAESMNIFPLGWCETNGHPLSTPRRARGHKLRKIAVVQPEKQILSSRTVHEGLKNQLNSTHS
VMINGKYCCPKIYFNHRCFSGPYLNKGRIAELPQCVGPGNCVLVLREVLTLLINAAYKPSRVLRELQLDK
DSVWHGCGEVLKAKYKGKSYRATVEIVRTADRVTEFCRQTCIKLECCPNLFGPRMVLDTCSENCSVLTKT
KYTHYYGKKKNKRIGRPPGGHSNLSCALKKSSKRRKRRKNIFVHKKKRSSASVDNTPVGSPQGSGGEDEE
DADDGDEDSLTEGSTSEQQEELQEESEVSEKKSSSSSPTQSETPTPLPPDTQTNKRDAQTSSVSDDENKP
PSPKEIRIEVDERLHLDSNPLKWSVADVVRFIRSTDCAPLARIFLDQEIDGQALLLLTLPTVQECMDLKL
GPAIKLCHHIERIKFAFYEQFAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

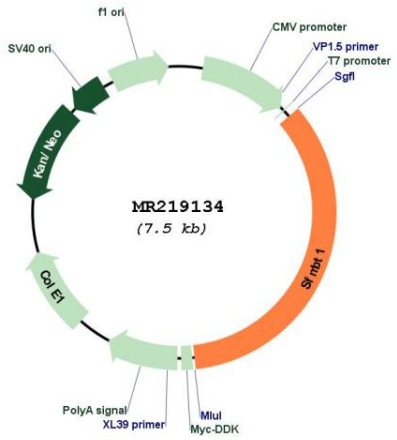
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001166532
ORF Size:	2589 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001166532.1, NP_001160004.1
RefSeq Size:	7837 bp
RefSeq ORF:	2592 bp
Locus ID:	54650
UniProt ID:	Q9JMD1
Cytogenetics:	14 18.99 cM
MW:	97.8 kDa
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]

Product images:



Circular map for MR219134