

Product datasheet for **RC201019**

SFMBT1 (NM_001005159) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SFMBT1 (NM_001005159) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SFMBT1
Synonyms:	RU1; SFMBT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC201019 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGGGGAGCAGCAGCTTGATGCAGATGCCGGCTCTGGTATGGAAGAGGTAGAATTAAGCTGGGAAG
 ATTATCTAGAAGAAACAGGGTCCACAGCAGTTCCTATGGGTCTTTAAACATGTGGACACACGTCTGCA
 AAATGGATTTGCTCCTGGGATGAAGCTGGAGGTGGCTGTGAGAACAGATCCTGAGACCTACTGGTTGCC
 ACCGTTACTACTACCTGTGAGCAGTTGCTCCTTCTCCGCTATGATGGCTATGGGAGGATCGGAGAGCAG
 ATTTCTGGTGTGACATCAGGAAGGCTGATCTACCCATTGGGTGGTGTGAGCAGAATAAGAAGACCTT
 TGAAGCCCCAGAAGGCATCAGAGATAAAGTATCTGACTGGGATGAGTTTCTGCGGCAGACCTGATAGGA
 GCATGTAGTCTCCTGTTCCGCTGCTAGAGGCCCTCCGTAATGGGAGGAATCCTTTAGATCTCATTGCTC
 CAGGATCCAGACTAGAATGTCAAGCTTCCAGGACTCTTAAAGCACTTGGATTGTTACTGTAGTAGAAAA
 CATTGGAGGAAGGCTGAAGCTACGTTATGAAGGACTTGAAGTTCTGACAATTATGAACATTGGTTGTAT
 TACTTGGATCCATTTCTCATCACGTTGGTTGGGCTGCTCAACAGGGATATGAGCTTCAGCCCCCTTCAG
 CCATTAGACATCTAAAAATGAAGCTGAGTGGCAAGAGATTTTGGCCAAAGTGAAAGAGGAAGAGGAAGA
 GCCATTACCATCTTACTTATTTAAGGACAAACAAGTTATTGGCATTACATACATTCTCTGTAACATGAAA
 TTGGAAGCTGTAGACCCCTGGTCTCCTTTTGGGATCTCTCCTGCTACAGTTGTTAAGGTTTTTGTGAGA
 AGTACTTTCTGGTGGAAATGGATGACTTGCCTGCTGAGAACACGCACGGCGATCCTTTGTGTGCCACGC
 CGACAGTCTGGCATCTCCCTGTGCAGTGGAGTCTGAAGAATGGCTACACATCAGCCCCCTCCAGGC
 TACCAAGCCAGGACTTGTACTGGGCTGACTACCTCAAACAGTGTGGTGTGAGCTGCTCCCAAGAGGT
 GCTTCCCTCCGTTAATTTCTGAACATGAATTTAAGGAGAACATGAAGCTCGAGGCGGTGAACCCATTCT
 CCTGAAGAAGTGTGTGTTGCTACCATCACTGCAGTGAAGGCTCCTACCTGTGGCTCCAGCTGGAGGGT
 TCTAAGAAGCCTATACCTGAATGTATTGTGAGTGTGGAATCCATGGATATATTTCTTTGGGCTGGTGTG
 AAACCAACGGCCACCCCTCAGCACTCCTCGCGAGCACGAGTATATAAACAGAGGAAAATTGCAGTGGT
 TCAGCCAGAAAAACAAGTACCATCCTCGAGGACTGTCCACGAGGGCTGAGGAATCAGGAGCTGAACTCC
 ACAGAGTCAGTTATGATTAATGGAAAATATTGCTGTCCAAAGATATACTTCAACCACCGTTGCTTCTCAG
 GGCCATATCTTAACAAAGGAAGAATTGCTGAGCTGCCTCAATGTGTAGGACCTGGAACTGTGTTCTGGT
 CCTTAGAGAGTCTCACTTTACTTATCAATGCAGCCTACAAACCCAGCCGTGTCCTTCCGGAGCTCCAG
 CTGGACAAAGACTCTGTGTGGCAGGATGTGGGAAAGTCTAAAAGCCAAATATAAAGGAAAGAGTTATC
 GGGCTACTGTTGAGATAGTGAACACAGCAGATCGGGTGAATTCGCGGCAACCTGTATCAAACCT
 GGAATGCTGTCCCTAACCTCTCGGTCCACGGATGGTTCTGGATAAGTGTCTGAGAACTGTTCTGTACTT
 ACAAGACCAAATACACACACTATTACGGAAAAGAAAATAAAAAGAAATGGGAGGCCACCTGGTGGGC
 ATAGTAACTTAGCTTGTGCCCTGAAAAAGCCAGTAAAGAGGAGAAAGAGGCGGAAAAATGTTTTTGTTC
 TAAGAAGAAACGCTCCTCTGCATCTGTTGATAATACCCAGCGGGCTCTCCCAGGGAAGTGGGGGTGAA
 GATGAGGATGACCCAGATGAAGGGGATGATGATCCCTAAGTGAAGGCAGTACATCCGAGCAGCAGGATG
 AGCTACAGGAAGAATCAGAAATGTCAGAAAAAAGTCAATGCTCCTTCTCCCACCAAAGTGAATATC
 CACATCGCTGCCCTCAGATAGACAAAGGAGAAAAAGGGAGCTTCGCACCTTTTCATTTTCTGACGATGAA
 AATAAACCTCCTTACCAAAGGAAATAAGGATCGAAGTTGCTGAAAGGCTTACCTGGACAGTAACCCCT
 TGAAGTGGAGTGTGGCAGACGTTGTGCGGTTTCATCAGATCCACTGACTGTGCTCCATTAGCAAGAATATT
 CCTAGACCAGGAAATGATGGGCAGGCCCTGTTGCTCCTTACCCTTCCCCTGTTCAAGAATGCATGGAC
 TAAAAATTGGCCCTGCCATCAAACCTTGGCCATCACATAGAGAGGATCAAGTTTGTCTTTTATGAGCAGT
 TTGCCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201019 protein sequence
 Red=Cloning site Green=Tags(s)

MNGEQQLDADAGSGMEEVELSWEDYLEETGSTAVPYGSKFHKVDTRLQNGFAPGMKLEAVRTPETYWVA
 TVITTCEQLLLLRDYGEDRRADFWCDIRKADLYPIGWCEQNKTLEAPEGIRDKVSDWDFLRQTLIG
 ACSPPVPLLEGLRNGRNPLDLIAPGSRLECAQAFQDSLSTWIVTVVENIGGRKLRVEGLESSDNYEHWLY
 YLDPFLHHVGVAAQQGYELQPPSAIRHLKNEAEWQEILAKVKEEEEEPLPSYLFKDKQVIGIHTFSVNMK
 LEAVDPWSPFGISPATVVKVFDEKYFLVEMDDLRPENHARRSFVCHADSPGIFPQWLSLKNGLHISPPPG
 YPSQDFWADYLLKQCGAEAAPQRCFPPLISEHEFKENMKLEAVNPILPEEVCVATITAVRGSYLWLQLEG
 SKKPIPEICIVSVESMDIFPLGWCETNGHPLSTPRRARVYKQRKIAVVQPEKQVPSRSTVHEGLRNQELNS
 TESVMINGKYCCPKIYFNHRCFSGPYLNKGRIAEQPQCVGPGNCVLLVREVLTLINAAYKPSRVLRELQ
 LDKDSVWHGCGEVLKAKYKGSYRATVEIVKTADRVTEFCRQTCIKLECCPNLFGPRMVLDKSENCVSL
 TKKYTHYYGKKKNKRIGRPPGGHNLACALKKASKRRRKRKNVFVHKKRSSASVDNTPAGSPQSGGGE
 DEDDPDEGDDSLSEGSTSEQDELQEESEMSEKKSCSSSPTQSEISTSLPPDRQRKRELRTFSFSDDE
 NKPPSPKEIRIEVAERLHLDNPLKWSVADVVRFIRSTDCAPLARIFLDQEIDGQALLLLTLPTVQECMD
 LKLGPAIKLCHHIERIKFAFYEQFAN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6165_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

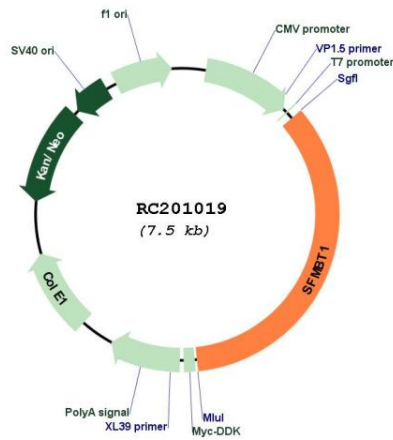
Cloning sites used for ORF Shuttling:



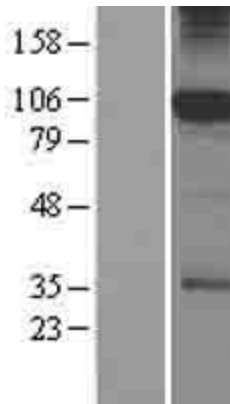
* The last codon before the Stop codon of the ORF

ACCN:	NM_001005159
ORF Size:	2598 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:	<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:	NM_001005159.2 , NP_001005159.1
RefSeq Size:	4793 bp
RefSeq ORF:	2600 bp
Locus ID:	51460
Cytogenetics:	3p21.1
Protein Families:	Transcription Factors
MW:	98.1 kDa
Gene Summary:	This gene shares high similarity with the Drosophila Scm (sex comb on midleg) gene. It encodes a protein which contains four malignant brain tumor repeat (mbt) domains and may be involved in antigen recognition. [provided by RefSeq, Jun 2012]

Product images:



Circular map for RC201019



Western blot validation of overexpression lysate (Cat# [LY402540]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218257] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).