

Product datasheet for **MC225014**

Sbf1 (NM_001170561) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sbf1 (NM_001170561) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sbf1
Synonyms: 2610510A08Rik; B230113C15Rik; mKIAA3020; Mtmr5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225014 representing NM_001170561
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGCGGCTCGCGGACTACTCGTGCTGGTGGCGTTCGGGCCGCACCCGCGGGAGTGGGAAGGCC
 AGGGCCAGATCCTGCAGCGCTTCCCGGAGAAGGACTGGGAGGACAACCCTTCCCCAGGCATTGAGCT
 GTTTTCCAGCCAGTGGGTGGCAGCTATGTCGGAGAGGAATCCACCACTTTCTTTGGCTGTCTCT
 ACTGACATCAACTCTGAGAGGCACTACTGCGCCTGCTTGACCTTCTGGGAGCCAGTGGAGTCCACACAGG
 AAGTAGTGTGCACTGACAATGCCACGGAGAAGGAGGAAGAGGCAGATGGAGGAGGCCAAGCGCGGCTGTC
 ATCCACAGCCCCAGCCAGCCTGGCCAGCTTTTTCGCGCAAAGACTCTGGTTCTGGTGTCTCGACTGGAC
 CATGCCGAAGTGTTCAGGAATAGCCTTGGTCTCATCTATGCTATCCACGTGGAAGGCCTGAATGTGAGCC
 TCGAGAATGTGATCGGGAACCTGCTCACATGTACCGTCCCATTGGCTGGCGGGTCTCAGAGAACCATCTC
 TTTGGGGGCTGGTGACCGGCAGGTCATTCAGACTCCACTGGTAGACTCACTGCCTGTGAGCCGCTGAGT
 GTAGCCCTGCTCTTCCGCCAGCTGGGTATCACCAGTGTGCTGTCTTTGTCTGTGCTGCCCTTACTGAGC
 ACAAAGTCTCTTCTTCCAGGAGCTACCAACGTCTAGCAGATGCTTGCAGGGTCTCTTGGCATTGCT
 GTTCCCTCTCAGATACAGCTTCACTTATGTGCCATCTTGCCGGCACAGCTGCTGGAAGTCTTAGCACA
 CCTACGCCTTTCATCATTGGGGTCAATGACGCTTCCAGGCAGAGACTCAGGAGCTGCTGGATGTGATTG
 TTGCTGATCTTGACGGAGGGACAGTACTGTCCCTGAGTGTGTCACATTCACCCCTGCCAGAGCCACT
 ACAAAGCCAGACCACAATGTTCTGAGCATGGTCTGGATCCAGAAGTGGAGTTGGCTGACCTTGCCTTC
 CCACCCCTACAACATCTGCTTCTCCCTGAAAATGCAGGACAAGGAGCTCCGTGCTGTCTTTCTGCGGC
 TCTTTGCTCAGCTCCTGCAAGGCTACCGCTGGTGCCTGCACATCGTGGCATCCACCCAGAGCCCGTCAT
 CCGCTTCCATAAGGCAGCATTCTTAGGCCAGCGTGGACTGGTGGAGGATGATTTCTGATGAAAGTATTG
 GAGGGCATGGCCTTCGCGGGCTTTGATCTGAGCGTGGGGTTCCTACCGTGCCACAGACCTGTTTGATG
 AGCTGGTGGCTCATGAGGTAGCACGGATGCGAGCAGATGAGAGCCATCCACCCGTGCTCGCTCATGT
 CCAGGAAGTGGCAGAGCAACTTTATAAGAAATGAAAACCCGTACCCAGCTGTGGCGATGCACAAAGTCAG
 AGGCCAGGAGAGGCCAGTCACTGCGGGGACCCACCGGCCATTCCTCCGGCTAGATGAGGGCACAATTC



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AGTGGATTGTGGACCAGGCTGCGGCCAAGATGCAGGGCGCACCTCCAGCTGTCAAGGCTGAGCGGAGGAG
 CACTGTGCCTTCAGGGCCCCCATGACGGCCATACTGGAGCGCTGTAGTGGGCCTCATATCAACAGTGCA
 CGTCGCTTGGAGGTAGTACGGAATTGCATCTCCTATGTGTTTGAAGGGAAAATGCTTGAGGCAAAGAAGT
 TGCTTCCGGCTGTACTCAGGGCCCTGAAGGGGCGAGCTGCCCGTCGCTGCCTTGCCCATGAGCTTCACT
 GCACGTACAGCAGAACCAGGCGAGTTCTGGATCATCAGCAGTTTACTTTGTCGCCGATGATGAATTGC
 TGCTGCAGGATTGCACTTCCCTGGATGAGCATGGCATTGCATCTGCACTGCTGCCTTTGGTCACAGCCT
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 CACACCTCAGTTCTGGGAGGCCATGTTCTATGGGGATGTGCAGACCCATATCCGAGCCCTACCTGGAG
 CCCTCTGATGGCGTGAGCCCCACCCAGGAGACTGGGGAGGCACAGTCTCAGGATGATGAACGATCTGCC
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 ACGCCTGTTGCCTGGTGAGGAGTGTGTCCTCGATGGCCTTCGAGTGTATCTGCTGCCAGACGGGCGTGAG
 GAGGGTGTAGGAGGCACTGGAGGGGGCCCTGCTACTCCAGCTGAGGGTGTGCTTCCCTTACCACAT
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 CGTGGCTGCCTTGACCAAGGAGAAGCGCATTAGTGTGCAGACCCCTGTGGACCAGCTTCTGCAGGATGGG
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 CTATCCCGGAACCTGATGAAGAATGCTAAAAAGACCATTTGGGCGGCAATGTTACTCGTAAGAAGTATA
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 GGAGCTGGAGCCTAGCACACTGACCCCGTCTCAGCCCTGAAGCCCTCTGACCGCATGACCATGAGCAGC
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 CGCTTCCCTGTGGTCTGCTGGCGCAGTGGGCGCTCCAAGGCTGTCTTGTACGCTCTGGGGCTGCATG
 GCAAAGGTGTTGTTGGTCTTCAAGGCCAGAATACACCTTCTCCAGGCCAGGCCAGGCCGACTCCAG
 CAGCCTGGAGCAAGAGAAGTACCTGCAGGCTGTGGTCACTGATGCCAGGTTATGCTGACTCATAGGA
 CGAAACACACTGAGTAGCTTCTCCTCAGCCACATGGGTGGCCATGTGCCAGCCCCGAGCCAGGGTCA
 CCACGCTGTCCAACCCCTTGGCGGCCTCGGCCTCCAGATGGACTGCGTCCGAGGGAAAATGGAGCAGTGT
 CCGAGCCAGTGGTGAAGCAGTGGTCTTGGTCTGATGTGGGCTCTCGGCTAGCTGGCAGAGATCTCCTC
 AGTACTCCCCACACCAACGGAGCTCCACCTGATTCTGTTTTCTACGGCCACAGCGTGCAGCCCTTACA
 TCATTGGTGACAAAGCTCAGCTCAAGGGTGTGCGCCAGATCCCTTGCAACAGTGGGAGCTGGTACCTAT
 TGAAGTATTTGAGGCAAGGCAGGTGAAAGCCAGCTTCAAGAACTATTGAAAGCCTGTGTGCTGGTTGC
 CCTGCCACTGAGCCAGCCAGCCTCTTTCTGCGTCACTGGAGGACTCAGAATGGCTGATCCAGATCC
 ACAAGCTGCTGCAGATATCGGTGCTGGTGTGGAGCTGCTGACTCTGGCTCCTCTGTCCCTGGTGGCCT
 GGAGGACGGCTGGGACATCACCCTCAGGTGGTATCCTTGGTGCAGTGTCTCAGACCCCTTACCCG
 ACTCTGGAAGGCTTCCGACTGCTAGTGGAAAAAGAGTGGCTGTCTTTGGCCATCGTTTACGCCACCCG
 GGGCCACACCCTAGCTGGGAGAGCAGTGGCTTACACCCGCTTCTCAGGATCTGGACTGTGTACA
 CCAGGTCCATTTGCACTTCCCATGGAGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTTGTGTTT
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 ATGAGGAGAAGGGTGAACGCAGGGGTGAGTGGCTGCAAGTCAAGTGTGGGAGTATGTAGACCGGCTAAG
 CAAGAGGACCCCATGTTCTACAACACACATATGCACCCGAGGACACAGAGGTGCTGCGACCCTACAGC
 AATGTGTCCAATCTGAAGGTGTGGGATTTCTACACTGAGGAGACGCTGGCTGAGGGGCCCTTATGACT
 GGGAGCTGGCCAGGGACCCCTGAGCCTCCAGAAGAGGAACGTCCTGATGGAGGTGCTCCCCAGAGCAG
 GCGCCGTGTGGTATGGCCATGCTATGACAGCCGCTCCTCGAGTCCAGCCTGATGCCATCTCAGCTGCTG
 GAGGAGCTGCAGCGCTTGGAGACAGAGTTAGGTGCGCCTTCTGAACGCTGGAAAGACACCTGGGACCGGG
 TGAAGGCTGCTCAGCGCCTTGAAGCCGGCAAGATGGACGTGGTACCCCCAGCTCACTTCTGGTGTGCGG

TGTGCCCCACCACCGCCGCTCGCTAGGCGTCTATCTACAGGAGGGGCCTGTGGGCTCTACTCTTAGCCTC
AGCCTGGACAGTGACCAGAGCAGTGGCTCAACCACATCTAGCTCTCGGCAGGCCGCCCGCGGAGCACCA
GCACCCTGTACAGCCAGTTCAGACAGCTGAGAGTGAGAACAGGTCTATGAGGGCATCCTATAACAAGAA
GGGGCCCTTCATGAAGCCCTGGAAAGCCGTTGGTTTGTCTAGACAAGACCAAGCACCAGCTGCGATAC
TATGACCACCGAATGGACACAGAATGCAAGGGTGTCTTACCTGGCAGAGGTGGAAGCTGTGGCACCTG
GCACACCCACTATAGGTGCCCTAAGACTGTGGATGAGAAGGCCCTCTTTGATGTGAAGACAACACGTGCG
CGTTTACAACCTCTGTGCCAGGATGTGCCCTCAGCCCAGCAGTGGGTGGACCGGATCCAGAGCTGCCTG
TCGGATGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001170561
Insert Size:	5682 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:	<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:	<u>NM_001170561.1, NP_001164032.1</u>
RefSeq Size:	6268 bp
RefSeq ORF:	5682 bp
Locus ID:	77980
UniProt ID:	<u>Q6ZPE2</u>
Cytogenetics:	15 E3

Gene Summary:

Acts as an adapter for the phosphatase MTMR2 to regulate MTMR2 catalytic activity and subcellular location. May function as a guanine nucleotide exchange factor (GEF) activating RAB28. Promotes the exchange of GDP to GTP, converting inactive GDP-bound Rab proteins into their active GTP-bound form. Inhibits myoblast differentiation in vitro and induces oncogenic transformation in fibroblasts.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.