

## Product datasheet for MC224992

### Sbf1 (NM\_001081030) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sbf1 (NM\_001081030) 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:** >MC224992 representing NM\_001081030  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGC**C

ATGGCGCGGCTCGCGGACTACTCGTGCTGGTGGCGTTCGGGCCGCACCCGCGGGAGTGGGAAGGCC  
 AGGGCCAGATCCTGCAGCGCTTCCCGGAGAAGGACTGGGAGGACAACCCTTCCCCAGGCATTGAGCT  
 GTTTTCCAGCCAGTGGGTGGCAGCTATGTCCCAGAGGAATCCACCACTTTCTTTGTGGCTGCCTT  
 ACTGACATCAACTCTGAGAGGCACTACTGCGCCTGCTTGACCTTCTGGGAGCCAGTGGAGTCCACACAGG  
 AAGTAGTGTGCACTGACAATGCCACGGAGAAGGAGGAAGAGGCAGATGGAGGAGGCCAAGCGCGGCTGTC  
 ATCCACAGCCCCAGCCAGCCTGGCCAGCTTTTTCGCGCAAAGACTCTGGTTCTGGTGTCTCGACTGGAC  
 CATGCCGAAGTGTTCAGGAATAGCCTTGGTCTCATCTATGCTATCCACGTGGAAGGCCTGAATGTGAGCC  
 TCGAGAATGTGATCGGGAACCTGCTCACATGTACCGTCCCATTGGCTGGCGGGTCTCAGAGAACCATCTC  
 TTTGGGGGCTGGTGACCGGCAGGTCATTCAGACTCCACTGGTAGACTCACTGCCTGTCAGCCGCTGAGT  
 GTAGCCCTGCTCTTCCGCCAGCTGGGTATCACCAATGTGCTGTCTTTGTCTGTGCTGCCCTTACTGAGC  
 ACAAAGTCTCTTCTTGTCCAGGAGCTACCAACGTCTAGCAGATGCTTGCAGGGTCTCTTGGCATTGCT  
 GTTCCCTCTCAGATACAGCTTCACTTATGTGCCATCTTGCCGGCACAGCTGCTGGAAGTCCTTAGCACA  
 CCTACGCCTTTCATCATTGGGGTCAATGCAGCCTTCCAGGCAGAGACTCAGGAGCTGCTGGATGTGATTG  
 TTGCTGATCTTGACGGAGGGACAGTGACTGTCCCTGAGTGTGTGCACATTCACCCCTGCCAGAGCCACT  
 ACAAAGCCAGACCACAATGTTCTGAGCATGGTCTGGATCCAGAAGTGGAGTTGGCTGACCTTGCCTTC  
 CCACCCCTACAACATCTGCTTCTCCCTGAAAATGCAGGACAAGGAGCTCCGTGCTGTCTTTCTGCGGC  
 TCTTTGCTCAGCTCCTGCAAGGCTACCGCTGGTGCCTGCACATCGTGCGCATCCACCCAGAGCCCGTCAT  
 CCGCTTCCATAAGGCAGCATTCTTAGGCCAGCGTGGACTGGTGGAGGATGATTTCTGATGAAAGTATTG  
 GAGGGCATGGCCTTCGCGGGCTTTGATCTGAGCGTGGGGTTCCTACCGTGCCACAGACCTGTTTGATG  
 AGCTGGTGGCTCATGAGGTAGCACGGATGCGAGCAGATGAGAGCCATCCACCCGTGTCCTGCGTCATGT  
 CCAGGAACTGGCAGAGCAACTTTATAAGAAATGAAAACCCGTACCCAGCTGTGGCGATGCACAAAGTGCA  
 AGGCCAGGAGAGGCCAGTCACTGCGGGGACCCACCGGCCATTCGCCGGCTAGATGAGGGCACAAATTC



AGTGGATTGTGGACCAGGCTGCGGCCAAGATGCAGGGCGCACCTCCAGCTGTCAAGGCTGAGCGGAGGAG  
 CACTGTGCCTTCAGGGCCCCCATGACGGCCATACTGGAGCGCTGTAGTGGGCCTCATATCAACAGTGCA  
 CGTCGCTTGGAGGTAGTACGGAATTGCATCTCCTATGTGTTTGAAGGGAAAATGCTTGAGGCAAAGAAGT  
 TGCTTCCGGCTGTACTCAGGGCCCTGAAGGGGCGAGCTGCCCGTCGCTGCCTTGCCCATGAGCTTACCT  
 GCACGTACAGCAGAACCGGGCAGTTCTGGATCATCAGCAGTTTACTTTGTCGTCGCATGATGAATTGC  
 TGCTGCAGGATTGCACTTCCCTGGATGAGCATGGCATTGCATCTGCACTGCTGCCTTTGGTCACAGCCT  
 TCTGCAGGAAGCTGAGCCAGGGGTGACACAGTTTGCATACAGCTGTGTTGAGGAGCAGTGTGTTGGAG  
 CACACCTCAGTTCTGGGAGGCCATGTTCTATGGGGATGTGCAGACCCATATCCGAGCCCTTACCTGGAG  
 CCCTCTGATGGCGTGAGCCCCACCCAGGAGACTGGGGAGGCACAGTCTCAGGATGATGAACGATCTGCC  
 TGGATGTGGCTTACAGCAGAGGCGCCTGTGGCCAACCCTGAGCCGTGAGAAGCAGCAGGAGCTGGTACA  
 GAAGGAGGAAAGCACTGTGTTACGCCAGGCCATCCACTATGCCAACCGCATGAGCTACCTTCTGCTGCCT  
 CTGACAGCAGCAAGAGCCGGCTGCTGCGGGAGCGGGCAGGGTTGGGAGACCTGGAGAGTCCAGCAACA  
 GCCTGGTCACCAACAGCATGGCAGGCAGTGTGGCTGAGAGCTATGACACAGAGAGTGGCTTTGAAGATGC  
 AGAGACGTGCGATGTGGCTGGGGCTGTAGTCCGCTTTCATCAACCGCTTTGTGGACAAAGTCTGCACAGAG  
 AGTGGGGTACCAGCGACCACCTCAAAGGACTGCATGTGATGGTGCCAGACATTGTCAGATGCACATTG  
 AGACCCTGGAGGCGGTACACCGTGAAGAGCTGCCCCGATACAGAAGCCCAAGCTGCTGAGGCC  
 ACGCCTGTTGCCTGGTGAGGAGTGTGTCCTCGATGGCCTTCGAGTGTATCTGCTGCCAGACGGGCGTGAG  
 GAGGGTGTAGGAGGCAGTGGAGGGGGCCCTGCTCTACTCCAGCTGAGGGTGTGCTTCCCTTACCACAT  
 ACCGCGTCATCTTACGGGGATGCCTACTGACCCCTGGTGGGGAGCAGGTGGTGTAGTCCGCTCCTTCCC  
 CGTGGCTGCCTTGACCAAGGAGAAGCGCATTAGTGTGCAGACCCCTGTGGACCAGCTTCTGCAGGATGGG  
 CTGCAGCTTCCGTCTGCACATTCAGCTGCTGAAAATGGCCTTGTATGAGGAGGTGGGATCTGCACAGTG  
 CTGAGCTCTTCCGAAAGCAGCTACACAAGTTCGGTACCACCAGACATCAGGGCCACCTTTGCATTCAC  
 ACTTGGCTCAGCTCACACACCTGGCAGGCCGCCACGGGTTACCAAGGACAAGGGTCTTCTATTGAGAAC  
 CTATCCCGAAGCTGATGAAGAATGCTAAAAAGACCATGGGCGGCAAGTGTACTCGTAAGAAGTATA  
 ACCCCCTGGCTGGGAGCATCGGGGCCAGCCACCCCTGAGGACCAGGAGACGAGATCTCAGTGTGAGA  
 GGAGCTGGAGCCTAGCACACTGACCCCGTCTCAGCCCTGAAGCCCTCTGACCGCATGACCATGAGCAGC  
 CTGGTGGAAACGGGCATGTTGCCGTGACTACCAGCGCCTGGACTAGGTACCCTGAGCAGCAGCCTGAGCC  
 GGGCCAAGTCTGAGCCCTTTCGCATCTCTCTGTTAATCGCATGTATGCCATATGTCGCAGCTATCCAGG  
 ATTGCTGATTGTTCCCCAGAGCATCCAGGACAACGCCCTGCAGCGTGTATCCCGTGTACCCGACAGAAC  
 CGCTTCCCTGTGGTCTGCTGGCGCAGTGGGCGCTCCAAGGCTGTCTTGTACGCTCTGGGGGCTGCATG  
 GCAAAGGTGTTGTTGGTCTTCAAGGCCAGAATACACCTTCTCCAGGCCAGGCCAGGCCGACTCCAG  
 CAGCCTGGAGCAAGAGAAGTACCTGCAGGCTGTGGTCAAGTCCATGCCAGGTTATGCTGACTCATAGGA  
 CGAAACACACTGAGTAGCTTCTCCTCAGCCACATGGGTGGCCATGGGAAATGGAGCAGTGTCCGAGCCA  
 GTGGTCAAGCAGTGGTCTTGGTCTGATGTGGGCTCTCGGCTAGCTGGCAGAGATCTCCTCAGTACTCC  
 CCACACCAACGGAGCTCCACCTGATTCTGGTTTTCTACGGCCACAGCGTGCAGCCCTCTACATCATTGGT  
 GACAAAGCTCAGCTCAAGGGTGTGCGCCAGATCCCTTGAACAGTGGGAGCTGGTACCTATTGAAGTAT  
 TTGAGGCAAGGCAGGTGAAAGCCAGCTTCAAGAAACTATTGAAAGCCTGTGTGCCTGGTTGCCCTGCCAC  
 TGAGCCCAGCCCAGCCTTTTTCTGCGCTCACTGGAGGACTCAGAATGGCTGATCCAGATCCACAAGCTG  
 CTGCAGATATCGGTGCTGGTAGTGGAGCTGCTGACTCTGGCTCCTCTGCTGGTGGCCTGGAGGACG  
 GCTGGGACATCACCACTCAGGTGGTATCCTTGGTGCAGCTGCTCTCAGACCCCTTCTACCGCACTTGGA  
 AGGCTTCCGACTGCTAGTGGAAAAGAGTGGCTGTCTTTGGCCATCGTTTCAGCCACCGCGGGGCCAC  
 ACCCTAGCTGGGACAGCAGTGGCTTACACCCGTCTTCTGCACTTCTGGACTGTGTACACAGGTCC  
 ATTTGCACTTCCCATGGAGTTTGGATTGAGTTCAGTCACTTCTACCTCAAGTCTTGGTTACCACACACATC  
 CCGCCGTTTCCGGACCTTCTGCTGGACTCTGATTATGAGCGTATTGAGCTGGGGCTGCTGTATGAGGAG  
 AAGGGTGAACGCAGGGGTGAGCTGGCCTGCAAGTCAAGTGTGGGAGTATGTAGACCGGCTAAGCAAGAGGA  
 CCCCCATGTTCTACAACACACATATGCACCCGAGGACACAGAGGTGCTGCGACCCTACAGCAATGTGTC  
 CAATCTGAAGGTGTGGGATTTCTACACTGAGGAGACGCTGGCTGAGGGGGCCCCCTTATGACTGGGAGCTG  
 GCCCAGGGACCCCTGAGCCTCCAGAAGAGGAAGTCTGATGGAGGTGCTCCCCAGAGCAGGCGCCGTG  
 TGGTATGGCCATGCTATGACAGCCGTCCTCGAGTCCAGCCTGATGCCATCTCACGTCTGCTGGAGGAGCT  
 GCAGCGCTTGGAGACAGAGTTAGGTTCGGCTTCTGAACGCTGGAAGACACCTGGGACCGGGTGAAGGCT  
 GCTCAGCGCTTGAAGCCGGCAAGATGGACGTGGTACCCCCAGCTCACTTCTGGTGTGGCTGTGCCCC  
 ACCACCGCGCTCGTAGGCGTCTATCTACAGGAGGGGCTGTGGGCTCTACTCTTAGCCTCAGCCTGGA

CAGTGACCAGAGCAGTGGCTCAACCACATCTAGCTCTCGGCAGGCCGCCGGCGGAGCACCAGCACCCCTG  
TACAGCCAGTTCAGACAGCTGAGAGTGAGAACAGGTCCTATGAGGGCATCTATAACAAGAAGGGGGCCT  
TCATGAAGCCCTGGAAAGCCCGTTGGTTTGTCTAGACAAGACCAAGCACCAGCTGCGATACTATGACCA  
CCGAATGGACACAGAATGCAAGGGTGTCATTGACCTGGCAGAGGTGGAAGCTGTGGCACCTGGCACACCC  
ACTATAGGTGCCCTAAGACTGTGGATGAGAAGGCCTTCTTTGATGTGAAGACAACACGTCGCGTTTACA  
CTTCTGTGCCAGGATGTGCCCTCAGCCAGCAGTGGGTGGACCGGATCCAGAGCTGCCTGTCCGGATGC  
CTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-MluI
<b>ACCN:</b>	NM_001081030
<b>Insert Size:</b>	5604 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001081030.2</a> , <a href="#">NP_001074499.2</a>
<b>RefSeq Size:</b>	6190 bp
<b>RefSeq ORF:</b>	5604 bp
<b>Locus ID:</b>	77980
<b>UniProt ID:</b>	<a href="#">Q6ZPE2</a>
<b>Cytogenetics:</b>	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 (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment, compared to 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. CCDS Note: The coding region has been updated to represent an alternate splice pattern that is more supported by the available transcript data.