

Product datasheet for MR217371

Sbf1 (NM_001170561) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sbf1 (NM_001170561) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sbf1
Synonyms:	2610510A08Rik; B230113C15Rik; mKIAA3020; Mtmr5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217371 representing NM_001170561 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGCGCGGCTCGCGGACTACTTCGTGCTGGTGGCGTTCGGGCCGCACCCGCGGGGAGTGGGAAGGCC
AGGGCCAGATCCTGCAGCGCTTCCCGGAGAAGGACTGGGAGGACAACCCTTCCCCAGGGCATTGAGCT
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AGGCCAGGAGAGGCCAGTCACTGCGGGGACCCACCGGCCATCCCCGGCTAGATGAGGGCACAAATTC
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Protein Sequence:

>MR217371 representing NM_001170561
 Red=Cloning site Green=Tags(s)

MARLADYFVLVAFGPHPRGSGEGQGQILQRFPKDWEDNPFQGIELFCQPSGWQLCPERNPPTFFVAVL
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 HAEVFRNSLGLIYAIHVEGLNVLEENVIGNLLTCTVPLAGGSQRTISLQAGDRQVIQTPLVDSLPSRCS
 VALLFRQLGITNVLSLFCAALTEHKVFLSRSYQRLADACRGLLALLFPLRYSFTYVPIPAQLLEVLST
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 RFPVVCWRSGRSKAVLLRSGGLHGKGVVGLFKAQNTSPGQAQADSSLEQEKYLQAVVSSMPRYADSSG
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 TLEGFRLVKEKWL SFGHRF SHRGAHTLAGQSSGF TPVFLQFLDCVHQVHLQFPMEFEFSQFYLKFLGYH
 HTSRRFRFTLLDSYERIELGLLYEEKGERRGQLACKSVWEYVDRLSKRTPMFYNYTYAPEDTEVLRPYS
 NVSNLKVWDFYTEETLAEGPPYDWELAQGPPEPPEEERPDGGAPQSRRRVWPCYDSRPRVQPDATSRLL
 EELQRLETELGRPSERWKDWDVRVKAQRLESRQDGRGTPSSLLVSAPPHRRSLGVYVLEQEPVGSSTLSL
 SLSDSQSSGSTTSSSRQAARRSTSTLYSQFTAENSENSYEGILYKKGAFMKPWKARWFLDKTKHQLRY
 YDHRMDTECKGVIDLAEVEAVAPGTPTIGAPKTVDEKAFFDVKTTRRVYVNFCAQDVPSAQWVDRIQSCL
 SDA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9049_b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001170561

ORF Size: 5679 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_001170561.1](#), [NP_001164032.1](#)

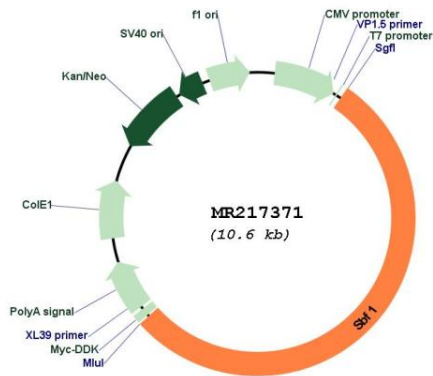
RefSeq Size: 6268 bp

RefSeq ORF: 5682 bp

Locus ID: 77980
UniProt ID: [Q6ZPE2](#)
Cytogenetics: 15 E3
MW: 211.9 kDa

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]

Product images:



Circular map for MR217371