

Product datasheet for RC222090

SBF1 (NM_002972) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SBF1 (NM_002972) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SBF1
Synonyms:	CMT4B3; DENND7A; MTMR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222090 representing NM_002972 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

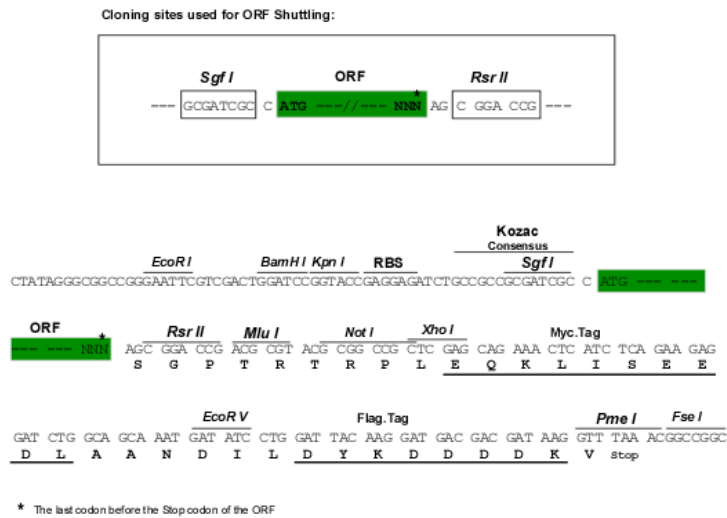
>RC222090 representing NM_002972
 Red=Cloning site Green=Tags(s)

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 AQGPPEPPEEERSDGGAPQSRRRVVWPCYDSCPRAQPDASRLLEELQRLETELQPAERWKDTWDRVKA
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 YSQFQTAESENRSYEGTLYKKGAFMKPWKARWFLDKTKHQLRYDHRVDTECKGVIDLAEVEAVAPGTP
 TMGAPKTVDEKAFFDVKTTRRVYNFCAQDVPSAQQWVDRIQSCLSDA

SGPTRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_002972

ORF Size: 5601 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_002972.1](#), [NP_002963.1](#)

RefSeq Size: 6134 bp

RefSeq ORF: 5682 bp

Locus ID: 6305

UniProt ID: [O95248](#)

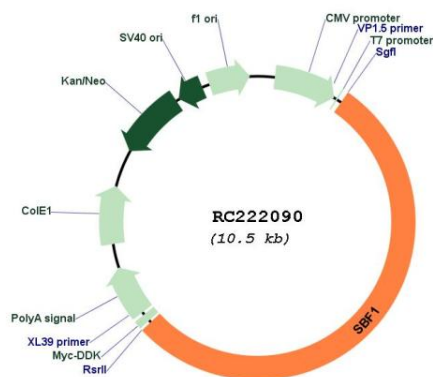
Cytogenetics: 22q13.33

Protein Families: Druggable Genome, Phosphatase

MW: 208.32 kDa

Gene Summary: This gene encodes a member of the protein-tyrosine phosphatase family. However, the encoded protein does not appear to be a catalytically active phosphatase because it lacks several amino acids in the catalytic pocket. This protein contains a Guanine nucleotide exchange factor (GEF) domain which is necessary for its role in growth and differentiation. Mutations in this gene have been associated with Charcot-Marie-Tooth disease 4B3. Pseudogenes of this gene have been defined on chromosomes 1 and 8. [provided by RefSeq, Dec 2014]

Product images:



Circular map for RC222090