

## Product datasheet for **RC219521**

### SP8 (NM\_198956) Human Tagged ORF Clone

#### Product data:

|                           |                                        |
|---------------------------|----------------------------------------|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | SP8 (NM_198956) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                |
| Symbol:                   | SP8                                    |
| Synonyms:                 | BTB                                    |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-Entry (PS100001)                 |
| E. coli Selection:        | Kanamycin (25 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>RC219521 representing NM\_198956  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTTGGCGCTACCTGTAATAAGATAGGCAGCCCCAGCCGCTCTCCCTCCTCCCTCTCGGACAGCTCTT  
 CTTCTTCGGCAAAGGCTTCCACCCCTGAAACGCTCCTCGTCTCTTCTTCGGCCAGCTGCAACGTAGT  
 GGGTTCAGTCTCTCAAGCTTCGGCGTGTCCGGGGCTCCAGGAACGGCGGCTCGTCTCGCGGGTGC  
 GCGGCCGCGCAGCAGCCGCGGCTGCCGCGCCCTGGTGTCCGACTCGTTAGCTGCGGCGGCTCGCCTG  
 GCTCCAGCGCTTCTCCCTCACCTCCAGCAGCGCCGAGCCGCCGCCGCCGCCGCCGAGCCGCCCTC  
 CAGCTCGCCCTTCGCAACGACTACTCTGTTTTCCAGGCCCCCGAGTTTCCGGGGCAGCGGCGGCGG  
 GCGGGGGCGGCGGCGGCTCCTCCGCGCACTCGCAGGACGGTCCCACCAGCCGGTGTTCATCTCCA  
 AGGTGCACACCTCTGTGGACGGGCTGCAGGGCATCTACCCGCGGGTGGGCATGGCGACCCGTACGAGTC  
 GTGGTTTAAGCCCTCGACCCGGGCTGGGTGCTGCGGGCAGGTGGGCTCGGCCGCGCTCCAGCTGG  
 TGGGACGTGGGGCGCGCTGGATCGACGTGCAGAACCCGAACAGCGCGGCTGCGCTGCCCGGCTCGCTGC  
 ACCCTGCCGCGGGGGGCTCCAACCTCGCTGCACTCGCCGCTCGGAGGTACAACCTCGGATTACTCGGG  
 CCTGAGTCACTCGGCCTTCAGCAGCGGCGCTCCTCGACCTGCTCAGCCCCGCCGGGACAGACCTCATG  
 GACGGCTTCAAGCAGTGTACCCGGCTCCTACCCGACTCGGCCCGCTCGCCGCTGGCCGGCGCGGGG  
 GCTCCATGTTGAGCGTGGGCTTCGGCGCCGCTGGGGGGCTCCCCGCGCTCCTCAGCTCGCCGCTACTC  
 CGGCCGCGCCACCTGCGACTGCCCAACTGCCAGGAGCAGAGCGGCTGGGCCCTGCCGGGGCAGCTTG  
 CGGCGCAAGGGCTGCACAGTGCACATCCCGGGCTGCGGCAAGGTGTACGGCAAGACTTCGCACCTCA  
 AGGCGCACCTGCGCTGGCACAGGGCGAGCGGCCCTTCGTGTGCAACTGGCTTTTCTGCGCAAGCGCTT  
 CACGCGCTCCGACGAGCTGCAGCGGCACCTGCGGACCCACACCGGCGAGAAGCGCTTCGCTGTCCAGTT  
 TGCAACAAGCGCTTCATGCGCAGCGACACCTCAGCAAGCACGTGAAGACGCACAGTGGCGGCGGCGG  
 GCGGCGGCTCGGCGGCTCGGGCAGCGGCGGAAGAAGGCGAGCACCAGCAGCAGCAGCAGCGCCGC  
 GGGCAGCCCGCTGCCACTCCCGAGAGTGTGCAGCCCCCGAGCCGGGACCGCAACGGCTAGAG

**ACGCGT**ACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC219521 representing NM\_198956  
 Red=Cloning site Green=Tags(s)

MLAATCNKIGSPSPSSSLSDSSSFSGKGFHPWKRSSSSSSASCNVVGSSLSFVGVSASRNGSSSAAA  
 AAAAAAAAAAALVDSFSCGGSPGSSAFSLTSSSSSSSSSSSSSSPFANDYSVFQAPGVSGGSGGG  
 GGGGGGSSAHSQDGSHPVFISKVHTSVDGLQGIYPRVGMHPYESWFKPSHPGLGAAGEVGSAGASSW  
 WDVGAGWIDVQNPNSAALPGSLHPAAGGLQTSLSPLGGYNSDYSLSHSAFSSGASSHLLSPAGQHLM  
 DGFKPVLPGSYPDAPSPLAGAGGMSL SAGPSAPLGGSPRSSARRYSGRATCDCPNCQEERLGPAGASL  
 RRKGLHSCHIPGCGKVYKTSHLKAHLRWHTGERPFVCNWLFCGKRFTSRDELQRHLRTHTEKRFACPV  
 CNKRFMRSDHLSKHVKTSHSGGGGGGSAGSGGKKGSDTDEHSAAGSPPHSPELLQPPPEGHRNGLE

**TR**TRPLE**QKL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



ACCN: NM\_198956

ORF Size: 1470 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_198956.4](#)

RefSeq Size: 3738 bp

RefSeq ORF: 1473 bp

Locus ID: 221833

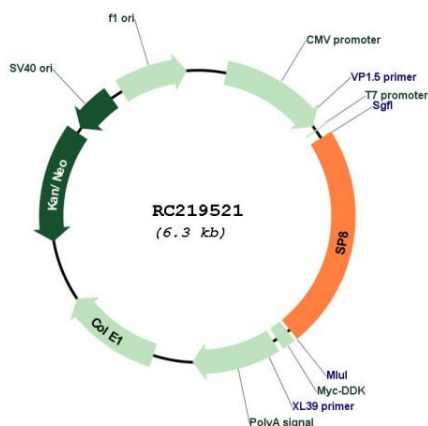
UniProt ID: [Q8IXZ3](#)

Cytogenetics: 7p21.1

MW: 48.7 kDa

Gene Summary: The protein encoded by this gene is an SP family transcription factor that in mouse has been shown to be essential for proper limb development. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

## Product images:



Circular map for RC219521