

## Product datasheet for **SC310524**

### Fos B (FOSB) (NM\_006732) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fos B (FOSB) (NM_006732) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fos B
Synonyms:	AP-1; G0S3; GOS3; GOSB
Mammalian Cell Selection:	Neomycin
Vector:	<u>PCMV6-Neo</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_006732 edited  
CGGCCACGGCAGGGACACGCGGAACCAAGACTTGAAACTTGATTGTTGTGGTTCTTCTT  
GGGGTTATGAAATTTTCATTAATCTTTTTTTTCCGGGGAGAAAGTTTTGGAAAGATTC  
TTCCAGATATTTCTTCATTTTCTTTTGGAGGACCGACTTACTTTTTTGGTCTTCTTTAT  
TACTCCCTCCCCCGTGGGACCCGCGGACGCGTAGAGGAGACCGTAGCTGAAGCTGAT  
TCTGTACAGCGGGACAGCGCTTCTGCCCTGGGGGAGCAACCCCTCCCTCGCCCCTGGG  
TCCTACGGAGCTGCACTTTCAAGAGGTACAGCGGCATCCTGTGGGGGCCTGGGCACCGC  
AGGAAGACTGCACAGAACTTTGCCATTGTTGGAACGGGACGTTGCTCCTTCCCCGAGCT  
TCCCCGGACAGCGTACTTTGAGGACTCGCTCAGCTCACCGGGACTCCCACGGCTCACCC  
CGGACTTGCACTTACTTCCCCAACCCGGCCATAGCCTTGGCTTCCCGGGACCTCAGCG  
TGGTCACAGGGGCCCCCTGTGCCAGGAAATGTTTCAGGCTTCCCGGAGACTACGA  
CTCCGGCTCCCGGTGCAGCTCCTCACCCCTGCGGAGTCTCAATATCTGTCTTCGGTGA  
CTCCTTCGGCAGTCCACCCACCGCCGCGGCTCCAGGAGTGCGCCGGTCTCGGGGAAAT  
GCCCGGTTCTTCGTGCCACGGTCAACCGCATCAACCCAGCCAGGACCTCCAGTGGCT  
TGTGCAACCCACCTCATCTCTTCCATGGCCAGTCCCAGGGGACGCACTGGCTCCCA  
GCCCCGGTGTGCAGCCCTACGACATGCCGGGAACAGCTACTCCACACAGGCATGAG  
TGGCTACAGCAGTGGCGGAGCGAGTGGCAGTGGTGGGCTTCCACAGCGGAACCTACCAG  
TGGGCTGGGCTGCCCGCCAGCCGAGCCCGGCTAGGAGACCCCGAGAGGAGACGCT  
CACCCCAGAGGAAGAGGAGAAGCGAAGGGTGGCCGGGAACGAAATAAACTAGCAGCAGC  
TAAATGCAGGAACCGCGGAGGAGCTGACCCGACCGACTCCAGGCGGAGACAGATCAGTT  
GGAGGAAGAAAAAGCAGAGCTGGAGTGGAGATCGCCGAGCTCCAAAAGGAGAAGGAACG  
TCTGGAGTTTGTGCTGGTGGCCACAAACCGGGTGAAGATCCCTACGAAGAGGGGCC  
CGGGCCGGGCCGCTGGCGGAGGTGAGAGATTTGCCGGGCTCAGCACCGGCTAAGGAAGA  
TGGCTTCACTGGCTGCTGCCGCCCCGCCACCACCGCCCTGCCCTTCCAGACCAGCCA  
AGACGCACCCCCAACCTGACGGCTTCTCTTTACACACAGTGAAGTTCAAGTCTCGG  
CGACCCCTTCCCGTTGTTAACCTTCTGACACTTCTTCGTTTGTCTCACCTGCCCGGA  
GGTCTCCGCTTCCCGGCGCCAAACGCACCAGCGGCAGTGACCAGCCTCCGATCCCT



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GAACTCGCCCTCCCTCCTCGCTCTGTGAACTCTTTAGACACACAAAACAAACAAACACAT  
 GGGGGAGAGAGACTTGAAGAGGAGGAGGAGGAGGAGAGAGAGAGAGGGGGAAGAG  
 ACAAAGTGGGTGTGTGGCCTCCCTGGCTCCTCCGTCTGACCTCTGCGGCCACTGCGCCA  
 CTGCCATCGGACAGGAGGATTCCCTTGTGTTTTGTCTGCTCTTGTGTTTCTGTGCCCGGC  
 GAGGCCGAGAGCTGGTACTTTGGGGACAGGGGTGGGAAGGGGATGGACACCCCCAGC  
 TGACTGTTGGCTCTCTGACGTCAACCAAGCTCTGGGGATGGGTGGGAGGGGGCGGGT  
 GACGCCACCTTCGGGCAGTCTGTGTGAGGATGAAGGACGGGGTGGGAGGTAGGCTG  
 TGGGGTGGGCTGGAGTCTCTCCAGAGAGGCTCAACAAGGAAAAATGCCACTCCCTACCC  
 AATGTCTCCACACCCACCTTTTTTTGGGGTGGCCAGGTTGGTTTCCCTGCACTCCCG  
 ACCTTAGCTTATTGATCCACATTTCCATGGTGTGAGATCCTCTTACTCTGGGCAGAAG  
 TGAGCCCCCCTTAAAGGGAATTCGATGCCCCCTAGAATAATCTCATCCCCCACCCGA  
 CTTCTTTTGAATGTGAACGCTTCTCTGACTGTCTAGCCACTCCCTCCAGAAAACT  
 GGCTCTGATTGGAATTTCTGGCCTCCTAAGGCTCCCCACCCGAAATCAGCCCCAGCCT  
 TGTTTCTGATGACAGTGTATCCCAAGACCTGCCCCCTGCCAGCCGACCCTCCTGGCCT  
 TCCTCGTTGGGCCGCTCTGATTTAGGACAGAGGGGCTGTGTGATGCCGTCCTGTGGA  
 GTGATTTATACTGTGAAATGAGTTGGCCAGATTGTGGGTGCAGCTGGGTGGGGCAGCAC  
 ACCTCTGGGGGATAATGTCCCACTCCCGAAAGCCTTCTCGGTCTCCCTCCGTCCA  
 TCCCCCTTCTTCCCTCCCTCAACAGTGAGTTAGACTCAAGGGGTGACAGAACCGAGAAG  
 GGGGTGACAGTCTCCATCCACGTGGCCTCTCTCTCTCTCCTCAGGACCTCAGCCCTGG  
 CCTTTTTCTTAAAGTCCCCGACCAATCCCCAGCCTAGGACGCCAACTTCTCCACCCC  
 TTGGCCCTCACATCCTCTCCAGAAAGCAGTGAAGGGCTGTGACATTTTCCGGAGAAG  
 ATTTGAGAGCTGAGGCTTTGGTACCCCAAAACCCCAATATTTTGGACTGGCAGACTCA  
 AGGGCTGGAATCTCATGATTCCATGCCCGAGTCCGCCATCCCTGACCATGGTTTTGGC  
 TCTCCACCCCGCGTTCCCTGCGCTTCACTCATGAGGATTTCTTTATGAGGCAATTT  
 ATATTTTTAATATCGGGGGTGGACCACGCGCCCTCCATCCGTGCTGCATGAAAAACA  
 TTCCACGTGCCCTTGTGCGCGCTCTCCATCCTGATCCAGACCCATTCTTAGCTATT  
 TATCCCTTCTGGTTTCCGAAAGGCAATTATATCTATTATGTATAAGTAAATATATTAT  
 ATATGGATGTGTGTGTGCGTGCGGTGAGTGTGTGAGCGCTTCTGCAGCCTCGGCCTA  
 GGTACGTTGGCCCTCAAAGCGAGCCGTTGAATTGAAACTGCTTCTAGAAACTCTGGCT  
 CAGCCTGTCTCGGCTGACCCTTTCTGATCGTCTCGGCCCTCTGATTGTTCCCGATGG  
 TCTCTCTCCCTCTGTCTTTCTCTCCGCTGTGTCCATCTGACCGTTTTCACTTGTCTC  
 CTTTCTGACTGTCCCTGCCAATGCTCCAGCTGTGCTGACTCTGGGTTGTTGGGGACA  
 TGAGATTTTATTTTTGTGAGTGAGACTGAGGGATCGTAGATTTTACAATCTGTATCTT  
 TGACAATTCTGGGTGCGAGTGTGAGAGTGTGAGCAGGGCTTGCTCCTGCCAACCAATT  
 CAATGAATCCCCGACCCCTACCCATGCTGTACTTGTGGTTCTTTTTGTATTTTGC  
 ATCTGACCCCGGGGGCTGGGACAGATTGGCGATGGGCCGTCCTCTCCCTTGGTTCT  
 GCACTGTTGCCAATAAAAAGCTTTAAAAACGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_006732  
**Insert Size:** 3800 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](mailto: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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_006732.1.

**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\\_006732.1](#), [NP\\_006723.1](#)

**RefSeq Size:** 3775 bp

**RefSeq ORF:** 1017 bp

**Locus ID:** 2354

**UniProt ID:** [P53539](#)

**Cytogenetics:** 19q13.32

**Domains:** BRLZ

**Protein Families:** Druggable Genome, Transcription Factors

**Gene Summary:** The Fos gene family consists of 4 members: FOS, FOSB, FOSL1, and FOSL2. These genes encode leucine zipper proteins that can dimerize with proteins of the JUN family, thereby forming the transcription factor complex AP-1. As such, the FOS proteins have been implicated as regulators of cell proliferation, differentiation, and transformation. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) encodes the longer isoform (1).