

Product datasheet for **SC116873**

c Fos (FOS) (NM_005252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	c Fos (FOS) (NM_005252) Human Untagged Clone
Tag:	Tag Free
Symbol:	c Fos
Synonyms:	AP-1; C-FOS; p55
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_005252 edited
GAATTCGGCACGAGGTGCCTAACCGCCACGATGATGTTCTCGGGCTTCAACGCAGACTAC
GAGGGCTCATCTCCCGCTGCAGCAGCGGTCCCCGGCCGGGATAGCCTCTCTTACTAC
CACTACCCCGCAGACTCCTTCTCCAGCATGGGCTCGCCTGTCAACGCGCAGGACTTCTGC
ACGGACCTGGCCGTCTCCAGTGCCAACTTATTCCCACGGTCACTGCCATCTCGACCAGT
CCGGACCTGCAGTGGCTGGTGCAGCCCCCCTCGTCTCCTCTGTGGCCCCATCGCAGACC
AGAGCCCCCACCCTTTCCGGAGTCCCCGCCCTCCGCTGGGGCTTACTCCAGGGCTGGC
GTTGTGAAGACCATGACAGGAGCCGAGCGCAGAGCATTGGCAGGAGGGCAAGGTGAA
CAGTTATCTCCAGAAGAAGAAGAGAAAAGGAGAATCCGAAGGAAAGAAATAAGATGGCT
GCAGCCAAATGCCGAACCGGAGGAGGGAGCTGACTGATACTCCAAGCGGAGACAGAC
CAACTAGAAGATGAGAAGTCTGCTTTCAGACCGAGATTGCCAACCTGCTGAAGGAGAAG
GAAAACTAGAGTTCATCTGGCAGCTCACCGACCTGCCTGCAAGATCCCTGATGACCTG
GGCTTCCAGAAGAGATGTCTGTGGCTCCCTTGATCTGACTGGGGCCTGCCAGAGGTT
GCCACCCGGAGTCTGAGGAGGCCTTACCCTGCCTCTCCTCAATGACCTGAGCCCAAG
CCCTCAGTGGAACTGTCAAGAGCATCAGCAGCATGGAGCTGAAGACCGAGCCCTTGTAT
GACTTCTGTTCAGCATCATCCAGGCCAGTGGCTCTGAGACAGCCCGCTCCGTGCCA
GACATGGACCTATCTGGGTCTTCTATGCAGCAGACTGGGAGCCTCTGCACAGTGGCTCC
CTGGGGATGGGGCCATGGCCACAGAGCTGGAGCCCTGTGCACTCCGGTGGTCACTGT
ACTCCAGCTGCACTGCTTACACGTCTTCTTCTGCTTTCACCTACCCCGAGGCTGACTCC
TTCCCCAGCTGTGCAGCTGCCACCGCAAGGGCAGCAGCAATGAGCCTTCTCTGAC
TCGCTCAGCTCACCCACGCTGCTGGCCCTGTGAGGGGGCAGGGAAGGGGAGGCAGCCGGC
ACCCACAAGTGCCACTGCCCGAGCTGGTGCATTACAGAGAGGAGAAACACATCTTCCCTA
GAGGGTTCCTGTAGACCTAGGGAGGACCTTATCTGTGCGTGAAACACACCAGGCTGTGGG
CCTCAAGGACTTGAAAGCATCCATGTGTGGACTCAAGTCCTTACCTCTTCCGGAGATGTA
GCAAAACGCATGGAGTGTATTGTTCCAGTGACACTTCAGAGAGCTGGTAGTTAGTAG
CATGTTGAGCCAGGCTGGGTCTGTGTCTTTTTCTTTCTCCTTAGTCTTCTCATAGC
ATTAATAATCTATTGGGTTCAATTATTGGAATTAACCTGGTGCTGGATATTTTCAAATTG
TATCTAGTGCAGCTGATTTTAAACAATACTACTGTGTTCTCGCAATAGTGTGTTCTGAT
TAGAAATGACCAATATTATACTAAGAAAAGATACGACTTTATTTTTTGGTAGATAGAAAT
AAATAGCTATATCCATGTAAGTGTGTTTTTCTTCAACATCAATGTTTATTGTAATGTTAC
TGATCATGCATTGTTGAGGTGGTCTGAATGTTCTGACATTAACAGTTTTTCCATGAAAACG
TTTTATTGTGTTTTAATTTATTTATTAAGATGGATTCTCAGATATTTATTTTTATTT
TATTTTTTTCTACCTTGAGGTCTTTTGACATGTGAAAAGTGAATTTGAATGAAAAATTTA
AGCATTGTTTGCTTATTGTTCCAAGACATTGTCAATAAAAGCATTTAAGTTGAATGCGAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACTCGAC
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005252 unedited
 CTTGGATTTGTAACCGACTTTATATAGGCGGCCGCGCAATTCGCACGAGGTGCCTAACCG
 CCACGATGATGTTCTCGGGCTTCAACGCAGACTACGAGGCGTCATCCTCCCGCTGCAGCA
 GCGCGTCCCCGGCCGGGATAGCCTCTCTTACTACCACTACCCGCAGACTCCTTCTCCA
 GCATGGGCTCGCTGTCAACGCGCAGGACTTCTGCACGGACCTGGCCGTCTCCAGTGCCA
 ACTTCATTCCCACGGTCACTGCCATCTCGACCAGTCCGGACCTGCAGTGGCTGGTGCAGC
 CCGCCCTCGTCTCCTCTGTGGCCCATCGCAGACCAGAGCCCTCACCCTTTCGGAGTCC
 CCGCCCCCTCCGCTGGGGCTTACTCCAGGCTGGCGTTGTGAAGACCATGACAGGAGGCC
 GAGCGCAGAGCATTGGCAGGAGGGCAAGGTGGAACAGTTATCTCCAGAAGAAGAAGAGA
 AAAGGAGAATCCGAAGGGAAAGGAATAAGATGGCTGCAGCCAAATGCCGCAACCGGAGGA
 GGGAGCTGACTGATACACTCCAAGCGGAGACAGACCAACTAGAAGATGAGAAGTCTGCTT
 TGCAGACCGAGATTGCCAACCTGCTGAAGGAGAAGGAAAACTAGAGTTCATCCTGGCAG
 CTCACCGACCTGCCTGNCAGATCCCTGATGACCTGNGCTTCCAGAAGAGATGTCTGTGG
 CTTCCCTTGATCTGACTGGNGCCCTGCCAGAAGTTCACCCCGGAGTCTGNNAGAGCCT
 TCACCCTGCCTCTCCCTCATGACCTGAGCCCCAGCCCTCAGTGAACCCCTGTCAGAGCA
 TCAGCAGCATGGAGCTGAAGACCGAGCCCTTTGATGACTTCTGGTCCCAGCATCATCCA
 GGCCCAATGGCTCTGAAACAGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005252 unedited
 CACTTAAATAGCTTTTTTACATGTCTTGGNACAATAAGCAAACAATGCTTAAATTTTTTC
 ATTCAAATNACTTTCCACATGTCAAAGACCTCAAGGTAGAAAAAATAAAATAAAATA
 TAAATATCTGAGAATCCATCTTAATAAAATAAATTAACAAACAATAAAACGTTTTTCATGG
 AAAACTGTTAATGTCAGAACATTCAGACCCTCAACAATGCATGATCAGTAACATTACA
 ATGAACATTGATGTTGAAGAAAACTACAGTACATGGATATAGCTATTTATTTCTATCTA
 CCAAAAAATAAGTCGTATCTTTTCTTAGTATAATATTGGTCATTTCTAATCAGAACACA
 CTATTGCCAGGAACACAGTAGTTATTGTTAAAATCAGCTGCACTAGATACAATTTGAAAA
 TATCCAGCACCAGGTTAATTCCAATAATGAACCAATAGATTAGTTAATGCTATGAGAAG
 ACTAAGGAGAAAGAGAAAAGAGACACAGACCCAGGCCTGGCTCAACATGCTACTAACTAC
 CAGCTCTCTGAAGTGTCACTGGGAACAATACACACTCCATGCGTTTTGCTACATCTCCGG
 AAGATGTAAGACTTGTAGTCCACACATGGATGCTTTCAAGTCTTGAGGCCACAGCCTG
 GTGTGTTTACGCACAGATAATGTCCTCCCTATGTCTACAGGAACCCCTAGGGAAGATG
 TTTTTCTCCTCTCTGTAATGCACCAGCTCGGGCAGTGGCACTTGTAGGTGCCAGCTGCCT
 CCNCTTNCCTGCCCTCACATGCCANCATCGTGGGTGAGCTGAGCGAGTCANAAGAATG
 CTCATTGCTGCTGCTGCCCTTGCNGTGGGCATCTGCACAGCTGGGAAAGAGTCANCCTC
 GGGGGTAGTAAAACCAATGGAGACGTGTATCAGTGCAGCTGGGAGTACAGTGACCACC
 GNATGCCAAGNGCTCACTCTGTGCCATGGCCAT

Restriction Sites:

NotI-NotI

ACCN:

NM_005252

Insert Size:

2190 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: A TrueClone.

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_005252.2](#), [NP_005243.1](#)

RefSeq Size: 2084 bp

RefSeq ORF: 1143 bp

Locus ID: 2353

UniProt ID: [P01100](#)

Cytogenetics: 14q24.3

Domains: BRLZ

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: B cell receptor signaling pathway, Colorectal cancer, MAPK signaling pathway, Pathways in cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

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. In some cases, expression of the FOS gene has also been associated with apoptotic cell death. [provided by RefSeq, Jul 2008]