

Product datasheet for RC225422

Fos B (FOSB) (NM_001114171) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Fos B (FOSB) (NM_001114171) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Fos B |
| Synonyms: | AP-1; G0S3; GOS3; GOSB |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC225422 representing NM_001114171 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCAGGCTTTCCCGGAGACTACGACTCCGGCTCCCGGTGCAGCTCCTCACCTCTGCCGAGTCTC
AATATCTGTCTTCGGTGGACTCCTTCGGCAGTCCACCCACCGCCCGCCTCCAGGAGTGCGCCGGTCT
CGGGGAAATGCCCGTTCCTTCGTGCCACGGTACCAGGATCACAACCAGCCAGGACCTCCAGTGGCTT
GTGCAACCCACCCTCATCTTCCATGGCCAGTCCCAGGGCAGCCACTGGCCTCCAGCCCCGGTCCG
TCGACCCCTACGACATGCCGGGAACCAGCTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGGAGC
GAGTGGCAGTGGTGGGCCTTCCACCAGCGAACTACCAGTGGGCCTGGGCCTGCCCGCCAGCCGAGCC
CGGCCTAGGAGACCCCGAGAGGAGACGGAGACAGATCAGTTGGAGGAAGAAAAGCAGAGCTGGAGTCGG
AGATCGCCGAGCTCCAAAAGGAGAAGGAACGTCTGGAGTTTGTGCTGGTGGCCACAAAACCGGGTGC
GATCCCCACGAAGAGGGGCCCGGGCCGGCCGCTGGCGGAGGTGAGAGATTTGCCGGGCTCAGACCCG
GCTAAGGAAGATGGCTTCAGCTGGCTGCTGCCGCCCGCCACCACCGCCCTGCCCTCCAGACCAGCC
AAGACGACCCCCAACCTGACGGCTTCTCTTTACACACAGTGAAGTTCAAGTCTCGGCGACCCCTT
CCCCGTTGTTAACCTTCGTACACTTCTCGTTTGTCTCACCTGCCCGGAGGTCTCCGCGTTCGCGGGC
GCCCAACGACCCAGCGGAGTACCAGCCTTCCGATCCCTGAACTCGCCCTCCCTCCTCGCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225422 representing NM_001114171
Red=Cloning site Green=Tags(s)

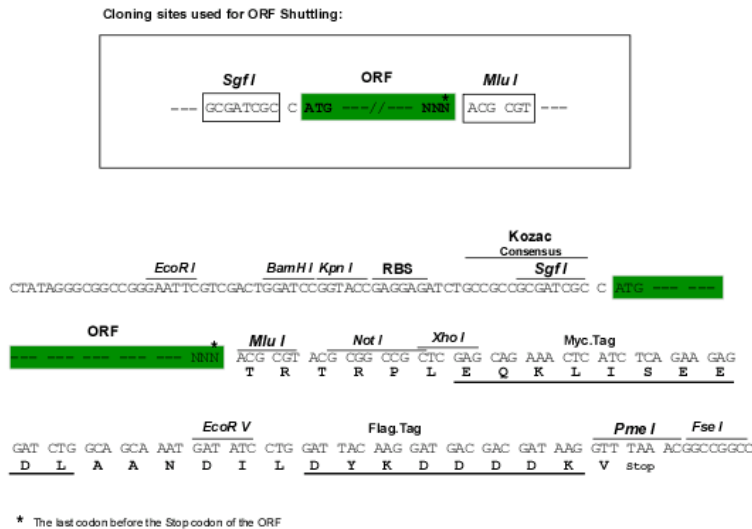
```
MFQAFPGDYDSGSRCS SSPSAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTAITTSQDLQWL
VQPTLISSMAQSQGQPLASQPPVDPYDMPGTSYSTPGMSGYSSGGASGSGGPSTSGTTS GPGPARPARA
RPRRPREETETDQLEEEKALESEIAELQKEKERLEFVLVAHKPGCKIPYEEGPGGPLAEVRDLPGSAP
AKEDGFSWLLPPPPPPPLPFQTSQDAPPNL TASLFTHSEVQVLGDPFPVNPSTYSSFVLTCEVSAFAG
AQRTSGSDQPSDPLNSPLLAL
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001114171

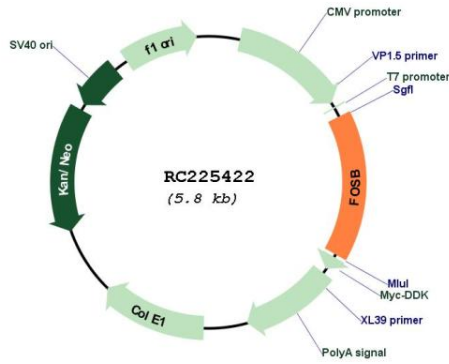
ORF Size: 906 bp

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.

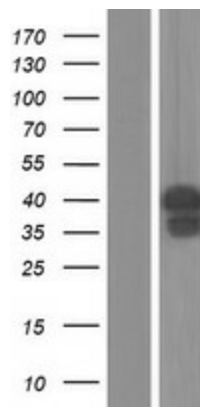
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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| 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: | <ol style="list-style-type: none">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: | <u>NM_001114171.2</u> |
| RefSeq ORF: | 909 bp |
| Locus ID: | 2354 |
| UniProt ID: | <u>P53539</u> |
| Cytogenetics: | 19q13.32 |
| Protein Families: | Druggable Genome, Transcription Factors |
| MW: | 31.3 kDa |
| 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] |

Product images:



Circular map for RC225422



Western blot validation of overexpression lysate (Cat# [LY426468]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225422 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).