

## Product datasheet for **RG207004**

### Fos B (FOSB) (NM\_006732) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fos B (FOSB) (NM_006732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fos B
Synonyms:	AP-1; G0S3; GOS3; GOSB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207004 representing NM_006732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCAGGCTTTCCCGGAGACTACGACTCCGGCTCCCGGTGCAGCTCCTCACCTCTGCCGAGTCTC  
AATATCTGTCTTCGGTGGACTCCTTCGGCAGTCCACCCACCGCCGCGCCTCCAGGAGTGCGCCGGTCT  
CGGGAAATGCCCGTTCCTTCGTGCCACGGTCCCGCATCACACCAGCCAGGACCTCCAGTGGCTT  
GTGCAACCCACCCTCATCTTCCATGGCCAGTCCAGGGCAGCCACTGGCCTCCAGCCCCGGTCC  
TCGACCCCTACGACATGCCGGGAACCAGCTACTCCACACCAGGCATGAGTGGCTACAGCAGTGGCGGAGC  
GAGTGGCAGTGGTGGGCCTTCCACCAGCGAACTACCAGTGGGCCTGGGCCTGCCCGCCAGCCGAGCC  
CGGCCTAGGAGACCCCGAGAGGAGACGCTCACCCAGAGGAAGAGGAGAAGCGAAGGGTGCGCCGGGAAC  
GAAATAAACTAGCAGCAGCTAAATGCAGGAACCGCGGAGGGAGCTGACCGACCGACTCCAGGCGGAGAC  
AGATCAGTTGGAGGAAGAAAAGCAGAGCTGGAGTCGGAGATCGCCGAGCTCAAAGGAGAAGGAACGT  
CTGGAGTTGTGCTGGTGGCCACAAACCGGCTGCAAGATCCCCACGAAGAGGGGCCCGGGCCGGGCC  
CGCTGGCGGAGGTGAGAGATTTGCCGGGCTCAGCACCGGCTAAGGAAGATGGCTTACGCTGGCTGCTGCC  
GCCCGCCACCACCGCCCTGCCCTTCCAGACCAGCAAGACGCACCCCAACCTGACGGCTTCTCTC  
TTTACACACAGTGAAGTTCAAGTCTCGCGACCCCTTCCCGTTGTTAACCTTTCGTACTTCTTCGT  
TTGTCTCACCTGCCCGGAGGTCTCCGCTTCGCGGCGCCCAACGCACCAGCGGAGTACCAGCCTTC  
CGATCCCCTGAACTCGCCCTCCCTCCTCGCTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207004 representing NM\_006732  
Red=Cloning site Green=Tags(s)

MFQAFPGDYDSGSRSSSPAESQYLSSVDSFGSPPTAAASQECAGLGEMPGSFVPTVTAITTSQDLQWL  
 VQPTLISSMAQSQGQPLASQPPVVDPYDMPGTSYSTPGMGYSSGGASGSGGPSTSGTSSGPGPARPARA  
 RPRRPREETLTPEEEEEKRRVRRERNKLAALKCRNRRRELTDRLQAETDQLEEEKAELESEIAELQKEKER  
 LEFVLVAHKPGCKIPYEEGPGPLAEVRDLPGSAPAKEDGFWLLPPPPPPPLPFQTSQDAPPNLTASL  
 FTHSEVQLGDPFPVNPSTSSFVLTCEVSAFAGAQR TSGSDQPSDPLNPSLLAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006732

**ORF Size:** 1014 bp

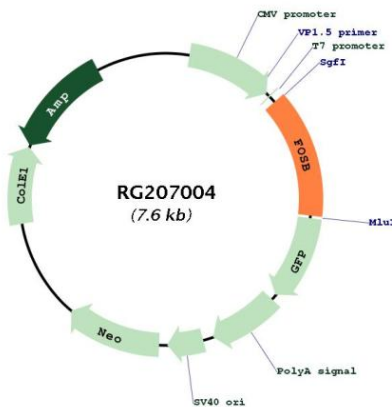
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_006732.1, NP_006723.1</u>
<b>RefSeq Size:</b>	3775 bp
<b>RefSeq ORF:</b>	1017 bp
<b>Locus ID:</b>	2354
<b>UniProt ID:</b>	<u>P53539</u>
<b>Cytogenetics:</b>	19q13.32
<b>Domains:</b>	BRLZ
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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 RG207004