

Product datasheet for **MG205933**

Fos (NM_010234) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fos (NM_010234) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fos
Synonyms:	c-fos; cFos; D12Rfj1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205933 representing NM_010234 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGTTCTCGGGTTTCAACGCCGACTACGAGGCGTCATCCTCCCGCTGCAGTAGCGCCTCCCCGGCCG
GGGACAGCCTTTCCTACTACCATTCCCCAGCCGACTCCTTCTCCAGCATGGGCTCTCCTGTCAACACACA
GGACTTTTGCAGATCTGTCCGTCTCTAGTGCCAACTTATCCCCACGGTGACAGCCATCTCCACCAGC
CCAGACCTGCAGTGGCTGGTGCAGCCCACTCTGGTCTCCTCCGTGGCCCATCGCAGACCAGAGCGCCCC
ATCCTTACGGACTCCCCACCCAGTCTGTGGGGCTTACGCCAGAGCGGGAATGGTGAAGACCGTGTCCAGG
AGGCAGAGCGCAGAGCATCGGCAGAAAGGGCAAAGTAGAGCAGCTATCTCCTGAAGAGGAAGAGAAACGG
AGAATCCGAAGGGAACGGAATAAGATGGCTGCAGCCAAGTGCCGGAATCGGAGGAGGAGCTGACAGATA
CACTCCAAGCGGAGACAGATCAACTTGAAGATGAGAAGTCTGCCTTGCAGACTGAGATTGCCAATCTGCT
GAAAGAGAAGGAAAACTGGAGTTTATTTTGGCAGCCACCGACCTGCCTGCAAGATCCCCGATGACCTT
GGCTTCCCAGAGGAGATGTCTGTGGCCTCCCTGGATTTGACTGGAGGTCTGCCTGAGGCTTCCACCCAG
AGTCTGAGGAGGCCTTACCCTGCCCTTCTCAACGACCTGAGCCCAAGCCATCCTTGGAGCCAGTCAA
GAGCATCAGCAACGTGGAGCTGAAGGCAGAACCCTTTGATGACTCTTTGTTTCCGGCATCATCTAGGCC
AGTGGCTCAGAGACCTCCCGCTCTGTGCCAGATGTGGACCTGTCCGTTCTTATGCAGCAGACTGGG
AGCCTCTGCACAGCAATTCCTTGGGATGGGGCCCATGGTACAGAGCTGGAGCCCTGTGTACTCCCGT
GGTCACTGTACTCCGGCTGCACTACTTACACGTCTTCTTTGTCTTACCTACCTGAAGCTGACTCC
TTCCCAAGCTGTGCCGCTGCCACCGAAAGGGCAGCAGCAACGAGCCCTCCTCCGACTCCCTGAGCT
CACCCACGCTGCTGGCCCTG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205933 representing NM_010234
 Red=Cloning site Green=Tags(s)

MMFSGFNADYEASSSRCSSASPAGDSL SYHSPADSFSSMGPVNTQDFCADLSVSSANFIPTVTAISTS
 PDLQWL VQPTLVSSVAPSQTRAPHYGLPTQSAGAYARAGMVKTVSGGRAQSIGRRGKVEQLSPEEEEKR
 RIRRRERNKMAAAKCRNRRREL TDTLQAETDQLEDEKSALQTEIANLLKEKEKLEF ILAAHRPACKIPDDL
 GFPEEMSVASLDL TGGLPEASTPESEEAF TPLLLNDPEPKPSLEPVKSI SNVELKAEPFDDFLFPASSRP
 SGSETSRSVPDVLDL SSGFYAADWEPLHSNLSLGMGPMVTELEPLCTPVVCTPGCTTYTSSFVFTYPEADS
 FPSCAAHRKGSSSNEPSSDSLSSPTLLAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010234

ORF Size: 1140 bp

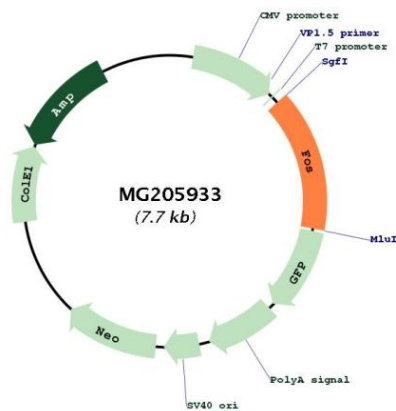
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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: 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_010234.3</u>
RefSeq Size:	2107 bp
RefSeq ORF:	1143 bp
Locus ID:	14281
UniProt ID:	<u>P01101</u>
Cytogenetics:	12 39.7 cM
Gene Summary:	Nuclear phosphoprotein which forms a tight but non-covalently linked complex with the JUN/AP-1 transcription factor. On TGF-beta activation, forms a multimeric SMAD3/SMAD4/JUN/FOS complex, at the AP1/SMAD-binding site to regulate TGF-beta-mediated signaling (By similarity). Has a critical function in regulating the development of cells destined to form and maintain the skeleton. It is thought to have an important role in signal transduction, cell proliferation and differentiation. In growing cells, activates phospholipid synthesis, possibly by activating CDS1 and PI4K2A. This activity requires Tyr-phosphorylation and association with the endoplasmic reticulum.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205933