

## Product datasheet for **RG202104**

### FRA1 (FOSL1) (NM\_005438) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FRA1 (FOSL1) (NM\_005438) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FRA1  
**Synonyms:** FRA; fra-1; FRA1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG202104 representing NM\_005438  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTTCCGAGACTTCGGGAACCCGGCCGAGCTCCGGGAACGGCGGGTACGGCGCCCGCGCAGC  
 CCCCAGCCGAGCGCAGGCAGCCAGCAGAAGTCCACCTGGTGCCAAGCATCAACACCATGAGTGGCAG  
 TCAGGAGCTGCAGTGGATGGTACAGCCTCATTTCTGGGGCCAGCAGTTACCCAGGCCTCTGACCTAC  
 CCTCAGTACAGCCCCACAACCCGGCCAGGAGTCATCCGGCCCTGGGGCCCTCCAGGGGTACGTC  
 GAAGGCCTTGTAACAGATCAGCCGGAGGAAGAGGAGCGCCCGAGTAAGGCGCGAGCGGAACAAGCT  
 GGCTGCGCCAAGTGCAGGAACCGAGGAAGAACTGACCGACTTCTGCAAGGCGGAGACTGACAAACTG  
 GAAGATGAGAAATCTGGGCTGCAGCGAGAGATTGAGGAGCTGCAGAAGCAGAAGGAGCGCCTAGAGCTGG  
 TGCTGGAAGCCCACCGACCCATCTGCAAAATCCCGAAGGAGCCAAGGAGGGGGACACAGGCAGTACCAG  
 TGGCACCAGCAGCCACCAGCCCCCTGCCGCCCTGTACCTTGATCTCCCTTTCCCAGGGCCTGTGCTT  
 GAACCTGAGGCACTGCACACCCACACTCATGACCACACCCCTCCCTAACCTTTACCCCCAGCCTGG  
 TCTTACCTACCCAGCACTCCTGAGCCTTGTCCTCAGCTCATCGAAGAGTAGCAGCAGCAGCGGAGA  
 CCCATCCTTGACCCCTTGGCTCTCAACCCCTCTCGCTTTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >RG202104 representing NM\_005438  
 Red=Cloning site Green=Tags(s)

MFRDFGEPGPSSGNGGGYGGPAQPPAAAQAAQKFHLVPSINTMSGSQELQWMVQPHFLGPSSYPRPLTY  
 PQYSPPQPRPGVIRALGPPPGVRRRPCEQISPEEEERRRVRERKNLAAAKCRNRRKELTDFLQAETDKL  
 EDEKSGLQREIEELQKQKERLELVLEAHRPICKIPEGAKEGDTGSTSGTSSPPAPCRPVPICISLSPGPVL  
 EPEALHTPTLMTTPSLTPFTPSLVFTYPTPEPCASAHRKSSSSSGDPSSDPLGSPTLLAL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_005438

**ORF Size:** 813 bp

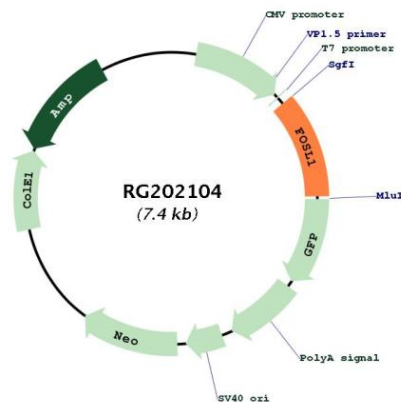
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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.

- 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\\_005438.5](#)
- RefSeq Size:** 1693 bp
- RefSeq ORF:** 816 bp
- Locus ID:** 8061
- UniProt ID:** [P15407](#)
- Cytogenetics:** 11q13.1
- Protein Families:** Druggable Genome, Transcription Factors
- Protein Pathways:** Wnt 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

### Product images:



Circular map for RG202104