

Product datasheet for RC202104

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:	Myc-DDK
Symbol:	FRA1
Synonyms:	FRA; fra-1; FRA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202104 representing NM_005438 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCCGAGACTTCGGGAACCCGGCCCGAGCTCCGGGAACGGCGGGTACGGCGCCCGCGCAGC
CCCCGGCCGAGCGCAGGCAGCCAGCAGAAGTCCACCTGGTGCCAAGCATCAACACCATGAGTGGCAG
TCAGGAGCTGCAGTGGATGGTACAGCCTCATTTCCTGGGGCCAGCAGTTACCCAGGCCTCTGACCTAC
CCTCAGTACAGCCCCACAACCCGGCCAGGAGTCATCCGGCCCTGGGGCCCTCCAGGGTACGTC
GAAGGCCTTGTAACAGATCAGCCGGAGGAAGAGGAGCGCCCGAGTAAGGCGCGAGCGGAACAAGCT
GGCTGCGCCAAGTGCAGGAACCGAGGAAGAACTGACCGACTTCTGTCAGGCGGAGACTGACAAACTG
GAAGATGAGAAATCTGGGCTGCAGCGAGAGATTGAGGAGCTGCAGAAGCAGAAGGAGCGCCTAGAGCTGG
TGCTGGAAGCCACCGACCCATCTGCAAAATCCCGAAGGAGCCAAGGAGGGGACACAGGCAGTACCAG
TGGCACCAGCAGCCACCAGCCCTGCCGCCCTGTACCTTGATCTCCCTTTCCCGAGGCCTGTGCTT
GAACCTGAGGCACTGCACACCCACACTCATGACCACACCTCCCTAACCTTTCACCCAGCCTGG
TCTTACCTACCCAGCACTCCTGAGCCTTGTCCTCAGCTCATCGAAGAGTAGCAGCAGCAGCGGAGA
CCCATCTCTGACCCCTTGGCTCTCAACCCCTCTCGCTTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202104 representing NM_005438
Red=Cloning site Green=Tags(s)

MFRDFGEPGPSSGNGGGYGGPAQPPAAAQAAQKFKHLVPSINTMSGSQELQWMVQPHFLGPSSYPRPLTY
 PQYSPPQPRPGVIRALGPPPGVRRRPCEQISPEEEERRRVRERKNLAAAKCRNRRELKELTDFLQAETDKL
 EDEKSGLQREIEELQKQKERLELVLEAHRPICKIPEGAKEGDTGSTSGTSSPPAPCRPVCISLSPGPVL
 EPEALHTPTLMTTPSLTPFTPSLVFTYPTPEPCASAHRKSSSSSGDPSSDPLGSPDLLAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2513_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_005438

ORF Size: 813 bp

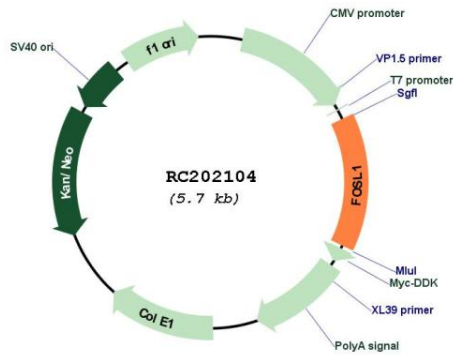
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA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

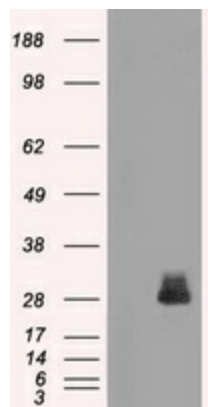
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	NM_005438.5
RefSeq Size:	1759 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
MW:	29.4 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. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014]

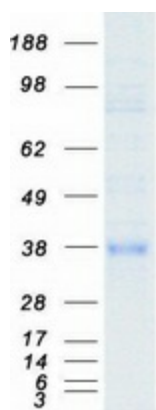
Product images:



Circular map for RC202104



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FOSL1 (Cat# RC202104, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FOSL1 (Cat# [TA500624]).



Coomassie blue staining of purified FOSL1 protein (Cat# [TP302104]). The protein was produced from HEK293T cells transfected with FOSL1 cDNA clone (Cat# RC202104) using MegaTran 2.0 (Cat# [TT210002]).