

Product datasheet for **SC125319**

FRA1 (FOSL1) (NM_005438) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FRA1 (FOSL1) (NM_005438) Human Untagged Clone
Tag:	Tag Free
Symbol:	FRA1
Synonyms:	FRA; fra-1; FRA1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC125319 sequence for NM_005438 edited (data generated by NextGen Sequencing)

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ATGTTCCGAGACTTCGGGAACCCGGCCCGAGCTCCGGGAACGGCGGGTACGGCGGC
CCCGCGCAGCCCCGGCCGAGCGCAGGCAGCCAGCAGAAGTTCCACCTGGTGCCAAGC
ATCAACACCATGAGTGGCAGTCAGGAGCTGCAAGTGGTACAGCCTCATTTCCTGGGG
CCCAGCAGTTACCCAGGCCTCTGACCTACCCTCAGTACAGCCCCACAACCCGGCCA
GGAGTCATCCGGGCCCTGGGGCCGCTCCAGGGGTACGTCGAAGGCCTTGTGAACAGATC
AGCCCGGAGGAAGAGGAGCGCCCGAGTAAGGCGCGAGCGGAACAAGCTGGCTGCGGCC
AAGTGCAGGAACCGGAGGAAGAACTGACCGACTTCTGCAGGCGGAGACTGACAACTG
GAAGATGAGAAAATCTGGGCTGCAGCGAGAGATTGAGGAGCTGCAGAAGCAGAAGGAGCGC
CTAGAGCTGGTGTGGAAGCCCACCGACCCATCTGCAAAAATCCCGGAAGGAGCCAAGGAG
GGGGACACAGGCAGTACCAGTGGCACCAGCAGCCACCAGCCCCCTGCCGCCCTGTACCT
TGTATCTCCCTTTCCCCAGGGCCTGTGCTTGAACCTGAGGCACTGCACACCCCCACACTC
ATGACCACACCCTCCCTAACTCCTTTACCCCCAGCCTGGTCTTACCTACCCAGCACT
CCTGAGCCTTGTGCCTCAGCTCATCGCAAGAGTAGCAGCAGCAGCGGAGACCCATCCTCT
GACCCCTTGGCTCTCCAACCCTCCTCGCTTGTGA
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Clone variation with respect to NM_005438.3



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005438 unedited
 NAAGTTAGGATTTGTATACGACTTCACTATAGGGCGGCCGGAATCCCGGGNTATCGTCCG
 ACCCACGCGTCCGCCACGCGTCCGCAGAACCCAGCAGCCGTGTACCCCGCAGAGCCGCC
 AGCCCCGGGCATGTTCCGAGACTTCGGGGAACCCGGCCGAGCTCCGGGAACGGCCGGCGG
 GTACGGCGGCCCCGCGCAGCCCCGGCCGAGCGCAGGCAGCCAGCAGAAGTTCACCT
 GGTGCCAAGCATCAACACCATGAGTGGCAGTCAAGAGCTGCAGTGGATGGTACAGCCCTCA
 TTTCTGGGGCCAGCAGTTACCCAGGCCTCTGACCTACCCTCAGTACAGCCCCCACA
 ACCCCGGCCAGGAGTCATCCGGGCCCTGGGGCCGCTCCAGGGTACGTGGAAGGCCTTG
 TGAACAGATCAGCCCGGAGGAAGAGGAGCGCCCGAGTAAGGCGGAGCGGAACAGCT
 GGCTGCGGCCAAGTGCAGGAACCGGAGGAAGGAACTGACCGACTTCTGCAGGCGGAGAC
 TGACAACTGGAAGATGAGAAATCTGGGCTGCAGCGAGAGATTGAGGAGCTGCAGAAGCA
 GAAGGAGCGCCTAGAGCTGGTGTGGAAGCCACCGACCCATCTGCAAAATCCCGGAAGG
 AGCCAAGGAGGGGACACAGGCAGTACCAGTGGCACCAGCAGCCACCAGCCCCCTGCCG
 CCCTGTACCTTGTATCTCCCTTTCCCAGGGCCTGTGCTTGAACCTGAGGCACTGCACAC
 CCCCACTCATGACCACACCCTCCCTAACTCCTTTACCCAGCCCTGGTCTCGACTAC
 CCCAGCACTCCTGAGCCTTGTGCCTCAGCTCAATCGCAGAGTAACAGCAGCAGCGGAGAC
 CATCCTCTGN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005438 unedited
 NNGACTTTTCAACCTTTTATTCTTTGGTAGGTTTGTATAAAATACTCTCTTTAGGAAA
 ATAAATAGCAGCTGCCCTCGCTGTGGAGGCTTGGATTCCCTGGAGCTGAAGGCTTCTCAA
 AGCTGAGATCCGCAGATCAGCTCATCACAGAAGCAAGGGCGCCTCCTGAGCTGTGCGGT
 TCAGGAGGGGGCGCAGAAATGGCCTGGTCCAATCACCTGCTGCTGCTGGCAGTGGGGCTG
 GTGAGTTAGTGTCTAGGTGGTAAAGTGGCACCTTCTGTCAGGAGATAGGGTTGGGTGG
 ATCACAGGAAGAGGGTGTGAGAGTGTGGCAGTGTGCTGGAAGGGGTTAGGGCTCCAGA
 GGACCTCTAAGGATCTACAAAGTCTCTGGGCTGCCAGGATTCTCTGGCACAAATGGGAA
 ATATTTTGTCTCTGATTTAGTGCAAATTGTGCTAGAGAGGCCAGCTCAAGAGAAACAGTG
 GGCAGCTTTGGTGGCCCCAAGCTGGCTCTACTGTGAAGCACAATATGGTCAGTCTCATT
 GAGGGATGGAGAAGAAGTTGCTGGAGTTGGATGTGGGATACTGTCCAGGCCAGCTGGACC
 GGTGGGGGAAGGGGAGGAGACATTGGCTAGGGTGGCATCTGCAGGGAGTAGGGCTCAGGC
 GCCTCACAAAGCGAGGAGGGTTGGAGAGCCAAGGGGTCAGAGGATGGGTCTCCGCTGCT
 GCTGCTACTCTTGCATGAGCTGAGGCACAAGGCTCAGGAGTGTGGGTAGGTGAAGAC
 CANGCTGGGGGTGAAAGGAGTTAGGGAGGGTGTGGTCATGANTGTGGNNGGTGTGCAGNG
 CCTCNGGTTCCNGGCCCGGCCCTTNGGTAAGGGTGATTCCCGGTTTATGGCTCGCNGGGT
 GCCTGGTGGGCTGCTGGTCCCCCTGGGACTGCACTGGTCCCCCAA

Restriction Sites:

Please inquire

ACCN:

NM_005438

Insert Size:

1700 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](#)

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_005438.2](#), [NP_005429.1](#)

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).