

Product datasheet for **SC116858**

ELK1 (NM_005229) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELK1 (NM_005229) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005229, the custom clone sequence may differ by one or more nucleotides

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ATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACATCA
TCTCCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCGGCTGTGGGG
GCTACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCTTGCAGTACTACTATGACAAG
AACATCATCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTTGTGTCTACCTACCCTGAGGTCGAGGGT
GCTCCACTGAGGACTGCCCGCCCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCTGC
TGCTATACATGCCGCCCCAGGGGACACTGTCTCTGAAAGCCAGGCACACCCAAGGGTGCAGGAATGGCA
GGCCCAGGCGGTTTGGCACGCAGCAGCCGGAACGAGTACATGCGCTCGGGCTCTATTCCACCTTACCA
TCCAGTCTCTGCAGCCGAGCCACCCCTCATCCTCGGCCTGCTGTGGTGTCTCCCAAGTGCAGCTCCTGC
AGGGGCAGCAGCCGCCCTCGGGGAGCAGGAGCACCAGTCCAAGCCCTTGGAGGCCTGTCTGGAGGCT
GAAGAGGCCGGCTTGCCTCTGCAGGTATCCTGACCCCGCCGAGGCCCAACCTGAAATCGGAAGAGC
TTAATGTGGAGCCGGTTTGGGCCGGCTTGGCCCCAGAAGTAAAGTAGAAGGCCCAAGGAAGATT
GGAAGTTGCGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCGAGCCAGAAGTCCCTCCACAGGAG
GGCGTGCCAGCCCGGCTGCCCGGTTGTTATGGACACCCGAGGGCAGGGCGGGCCATGCGGCTTCCA
GCCCTGAGATCTCCAGCCGAGAAGGGCCGAAGCCCCGGGACCTAGAGCTTCCACTCAGCCCGAGCCT
GCTAGGTGGGCCGGACCCGAACGACCCAGGATCGGGAAGTGGCTCCGGCCTCCAGGCTCCGGGGCCG
GGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGCTGCCTC
TAGCATTCACTTCTGGAGCACCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTT
TCCATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGT
CTCTCCCAGGGCCCCAGAAGCCATGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005229 unedited
 ACAAATTTGTAATACGACTCACTTATAGGGCGGCCGGAATCGGCACGAGGCCAACATTG
 CCAACGCCACCGCCACGCTACACACAGCCTCAACTTTTCAGGAGACCCGTCCTGGCCTTA
 TTTATTCACCCTTCTGTACATCGTAGCGAATCAATCCGTGGCGCCGCACTCCTCCGCA
 TCCCTCTTTAACAGTACCCTGGGATGGCGTGAGCACTCCCCAGCGATGGACCCATCTG
 TGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACATCATCT
 CCTGGACTTCACGGGATGGTGGTGAATTCAAGCTGGTGGATGCAGAGGAGGTGGCCCGGC
 TGTGGGGCTACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGCCTTGC
 GGTACTACTATGACAAGAACATCATCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGT
 TTGTGTCTACCCTGAGGTGCGAGGGTGTCCACTGAGGACTGCCCGCCCAGCCAGAGG
 TGTCTGTACCTCCACCATGCCAAATGTGGCCCTGCTGCTATACATGCCGCCAGGGG
 AACTGTCTCTGGAAAGCCAGGCACACCCAAGGGTGCAGGAATGGCAGGCCAGGCGGTT
 TGGCAGCAGCAACCGGAACGAGTACATGCGCTCGGCCCTCTATTCCACCTTACCATNC
 AGTCTCTGCAGCCGACGCCACCCCTCATCTCGGCTGCTGTGGTGTCTCCAGTGCAG
 CTCTGCAGGGGACGAGCGCCCTCGGNGAGCAGGAGCACCAGTCCAAGCCCTTTG
 GAGCCTGTCTGGNAGCTGAAGAGCCGCTTGCCTCTGCAGGTATCTGACCCCGCCGA
 GCCCAACCTNGAATCGNAGAAGCTATGTGNGACCCGGNTTGGCCGGGCTTGCCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005229 unedited
 NNTTTTAGCTTGNACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTCACTTTGAAAAAATATATTTACAGGAACAATCCCCATTCTTTGGGACTTTT
 TAAAAAAAAAAGGTCCATTTTGGGGAAGTAAAACAAACAGTGGAGACGAGTGTAGCACT
 GTCCCCAAATCACCAACCCCAAGTCCAAGGCCTGGGCTGGCCAGCGCTAACAGGTG
 AGCCCAGGAGTCTTTTGAACCCACTCTTTTTGCCTAAAATAAAGACAGGACAGGCTTTA
 TGTCCCCATTCTCCCTCCCAACTCCAGGGACATTGAAAGGGTCTTTGTACCCGCCCG
 CAGGAAATTGGGGGCTGGGAGGGAGGAACTGAAAATTCATGTTTGGTATCAAAAATAA
 ACACTTGGAGTGGGGGAGGCGGCAGGAAAATCCCCCAAAATCCCTTCTTCCACCCA
 CCCCACCAAAATAGGAAGAGATGACTCCCTCTCCCTATTGAAAAGCCCATTAAAAA
 TAGATTACTATCAAAATGGCAGCGGGGAGAGACAGGGAGACCTGGAGTACTGGCTGG
 AGGGGCCCCAGACGGGACCACCCCAAAAAACCCTCCATTGGGAGGAAACAGGCA
 GGACCCAGGGAGGTTGGCAGACAAAGGAATGGCTTCTCAGGGGAAGAACAAAAGGAC
 ATTCTCCCTGGCCAAAAGTTGGTTGAAAAGGATAAGCTGTCTGAGAGAAAGTTGNGG
 AGGGTGAATTTCTATTCCAAGGTGTGATTCTTCTTGGCCAAGACTCCAACCCATTA
 AATGGTACAAATCTTCTTGGACCCCTGAGTATGCCCAGAAAATATAAAACAACAACTA
 ACTTTTTACTTACATTCAAAAACGCGACAAGGCTCT

Restriction Sites:

NotI-NotI

ACCN:

NM_005229

Insert Size:

2800 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: no

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_005229.2](#), [NP_005220.1](#)

RefSeq Size: 2828 bp

RefSeq ORF: 1287 bp

Locus ID: 2002

UniProt ID: [P19419](#)

Cytogenetics: Xp11.23

Domains: ETS

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Endometrial cancer, ErbB signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Prion diseases

Gene Summary:

This gene is a member of the Ets family of transcription factors and of the ternary complex factor (TCF) subfamily. Proteins of the TCF subfamily form a ternary complex by binding to the the serum response factor and the serum response element in the promoter of the c-fos proto-oncogene. The protein encoded by this gene is a nuclear target for the ras-raf-MAPK signaling cascade. This gene produces multiple isoforms by using alternative translational start codons and by alternative splicing. Related pseudogenes have been identified on chromosomes 7 and 14. [provided by RefSeq, Mar 2012]

Transcript Variant: This variant (2, also known as 5'UTR short or 5'UTRS) lacks an alternate exon in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode isoform a. Delayed translational reinitiation from an alternative downstream start codon, AUG sElk-1, can also result in a shorter isoform (sELK-1), as described in PMID:22354998.