

Product datasheet for **RG209572**

ELK4 (NM_021795) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELK4 (NM_021795) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELK4
Synonyms:	SAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209572 representing NM_021795 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGTGCTATCACCTGTGGCAGTTCCTTCTTCAGCTCCTGCAGAAGCCTCAGAACAAGCACATGA
TCTGTTGGACCTAATGATGGGCAGTTAAAGCTTTTCAGGCAGAAAGAGGTGGCTCGTCTCTGGGGAT
TCGCAAGAACAAGCCTAACATGAATTATGACAACTCAGCCGAGCCCTCAGATACTATTATGTAAGAAT
ATCATCAAAAAAGTGAATGGTCAGAAGTTGTGTACAAGTTGTCTCTTATCCAGAGATTTGAACATGG
ATCCAATGACAGTGGCAGGATTGAGGGTGACTGTGAAAGTTAACTTCAGTGAAGTCAGCAGCAGTTC
CAAAGATGTGGAGAATGGAGGAAAGATAAACCACCTCAGCCTGGTGCCAAGACCTCTAGCCGCAATGAC
TACATACACTCTGGCTTATATTCTTCACTTACTCTCAACTCTTTGAACTCCTCCAATGTAAGCTTTTCA
AATTGATAAAGACTGAGAATCCAGCCGAGAAAATGGCAGAGAAAAATCTCCTCAGGAGCCACACCATC
TGTTCATCAAAATTTGTCACGACACCTTCCAAAAGCCACCGGTTGAACCTGTTGCTGCCACCATTTCAATT
GGCCCAAGTATTTCTCCATCTTCAGAAGAACTATCCAAGCTTTGGAGACATTGGTTTCCCAAACTGC
CTTCCCTGGAAGCCCAACCTCTGCCTCTAACGTAATGACTGCTTTTCCACCACACCACCATTTCTGC
CATACCCCTTTGCAGGAACCTCCAGAACACCTTACCACCAGTGTCTCACCCAGACATCGACACA
GACATTGATTAGTGGCTTCTCAGCCAATGGAACCTCCAGAGAATTTGTCAGTGGAGCCTAAAGACCAGG
ATTCAGTCTTGCTAGAAAAGGACAAAGTAAATAATTCATCAAGATCCAAGAAACCCAAAGGTTAGAAT
GGCACCCACCTTGTGATCACGAGCAGTATCCAAGCCACTGGGAATACTGAGCCATCTCTCCCTACA
GCTTCTTACACCAGCATTTTTTTTACAGGTAGCTTGCTCGCTCTTATGGTGTACCATTGCTTTCAT
TTATTTGCCCTTTTAAAGCAAATCCAGAATTTATACACTCAAGTTTGCTTCTGTTACTTAGGTTGTCTT
AGAAAGGTTATGTGTACTGTCATG

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209572 representing NM_021795
Red=Cloning site Green=Tags(s)

MDSAITLWQFLLQLLQKPQNKHMICWTSNDGQFKLLQAEVARLWGIRKNKPNMNYDKLSRALRYYYVKN
 I IKKVNQKQFVYKFVSYPEILNMDPMTVGRIEGDCELNSEVSSSSKDVENGKDKPPQPGAKTSSRND
 YIHSGLYSSFTLNSLNSSNVKLFKLIK TENPAEKLAEEKSPQEPTPSVIK FVTTSPKKPPVEPVAATISI
 GPSISPSSEETIQALETLVSPKLP SLEAPTSASNVM TAFATTPPISSIPPLQEPPRTPSPPLSSH PDIDT
 DIDSVASQPMELPENLSLEPKDQDSVLLLEKDKVNNSRSKPKGLELAPTLVITSSDPSPLGILSPSLPT
 ASLTPAFFSQVACSLFMVSPLLSFICPFKIQNLTYQVCFLLLRFLERLCVTVM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021795

ORF Size: 1215 bp

OTI Disclaimer: 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_021795.2](#), [NP_068567.1](#)

RefSeq Size: 3077 bp

RefSeq ORF: 1218 bp

Locus ID: 2005

UniProt ID: [P28324](#)

Cytogenetics: 1q32.1

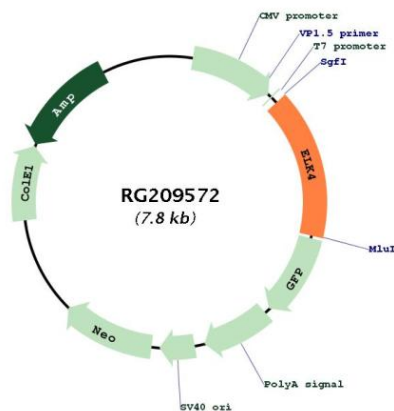
Domains: ETS

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: MAPK signaling pathway

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 reponse element in the promoter of the c-fos proto-oncogene. The protein encoded by this gene is phosphorylated by the kinases, MAPK1 and MAPK8. Several transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209572