

## Product datasheet for **RG219755**

### ELK4 (NM\_001973) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELK4 (NM_001973) 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:	>RG219755 representing NM_001973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACAGTGCTATCACCTGTGGCAGTTCCTTCTTCAGCTCCTGCAGAAGCCTCAGAACAAGCACATGA  
TCTGTTGGACCTAATGATGGGCAGTTAAAGCTTTTCAGGCAGAAAGAGGTGGCTCGTCTCTGGGGGAT  
TCGCAAGAACAAGCCTAACATGAATTATGACAACTCAGCCGAGCCCTCAGATACTATTATGTAAGAAT  
ATCATCAAAAAAGTGAATGGTCAGAAGTTGTGTACAAGTTGTCTCTTATCCAGAGATTTGAACATGG  
ATCCAATGACAGTGGGCAGGATTGAGGGTGACTGTGAAAGTTAACTTCAGTGAAGTCAGCAGCAGTTC  
CAAAGATGTGGAGAATGGAGGAAAGATAAACCACCTCAGCCTGGTGCCAAGACCTCTAGCCGCAATGAC  
TACATACACTCTGGCTTATATTCTTCACTTACTCTCAACTCTTTGAACTCCTCCAATGTAAGCTTTTCA  
AATTGATAAAGACTGAGAATCCAGCCGAGAAAATGGCAGAGAAAAATCTCCTCAGGAGCCACACCATC  
TGTTCATCAAAATTTGTCACGACACCTTCCAAAAGCCACCAGTTGAACCTGTTGCTGCCACCATTTCAATT  
GGCCCAAGTATTTCTCCATCTTCAGAAGAACTATCCAAGCTTTGGAGACATTGGTTTCCCCAAAAGTGC  
CTTCCCTGGAAGCCCAACCTCTGCCTCAACGTAATGACTGCTTTTCCACCACACCACCATTTTCGTC  
CATACCCCTTTGCAGGAACCTCCAGAACACCTTACCACCAGTGTCTCACCCAGACATCGACACA  
GACATTGATTCAGTGGCTTCTCAGCCAATGGAACCTCCAGAGAATTTGTCAGTGGAGCCTAAAGACCAGG  
ATTCAGTCTTGCTAGAAAAGGACAAAGTAAATAATTCATCAAGATCCAAGAAACCCAAAGGGTTAGAAT  
GGCACCCACCTTGTGATCACGAGCAGTGATCCAAGCCACTGGGAATACTGAGCCCATCTCTCCCTACA  
GCTTCTCTACACCAGCATTTTTTTCACAGACCCCATCATACTGACTCCAAGCCCTTGTCTCCAGTA  
TCCACTTCTGGAGTACTCTCAGTCTGTTGCTCCCTAAGTCCAGCCAGACTGCAAGGTGCTAACACACT  
TTTCCAGTTTCTTGTACTGAACAGTCATGGGCCATTCAGTCTGTCTGGGCTGGATGGACCTTCCACC  
CCTGGCCATTTTCCAGACCTACAGAAGACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219755 representing NM\_001973  
 Red=Cloning site Green=Tags(s)

MDSAITLWQFLLQLLQKPQNKHMICWTSNDGQFKLLQAEVARLWGIRKNKPNMNYDKLSRALRYYYVKN  
 I IKKVNQKQFVYK FVSYPEILNMDPMTVGRIEGDCELNSEVSSSSKDVENGKDKPPQPGAKTSSRND  
 YIHSGLYSFTLNSLNSSNVKLFKLIK TENPAEKLA EKKSPQEPTPSVIK FVTTTPSKKPPVEPVAATISI  
 GPSISPSSEETIQALETLVSPKLP SLEAPTSASNVM TAFATTPPISSIPPLQEPPRTPSPPLSSHPDIDT  
 DIDSVASQPMELPENLSLEPKDQD SVLLEKDKVNNSSRSKKPKGLELAPTLVITSSDPSPLGILSPSLPT  
 ASLTPAFFSQTP IILTPSPLLSSIHFWSTLSPVAPLSPARLQGANLTFQFP SVLNSHGPFTLSGLDGPST  
 PGPFPDLQKT

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001973

**ORF Size:** 1293 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\\_001973.2](#), [NP\\_001964.2](#)

**RefSeq Size:** 3034 bp

**RefSeq ORF:** 1296 bp

**Locus ID:** 2005

**UniProt ID:** [P28324](#)

**Cytogenetics:** 1q32.1

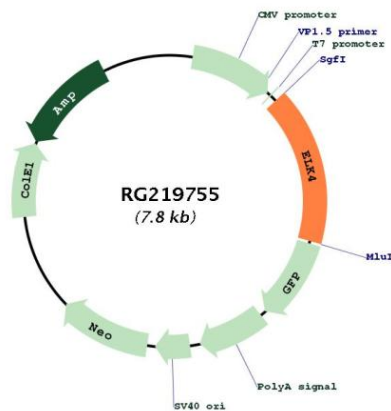
**Domains:** ETS

**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 RG219755