

## Product datasheet for **RG225701**

### ELK1 (NM\_001114123) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELK1 (NM_001114123) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225701 representing NM_001114123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCCATCTGTGACGCTGTGGCAGTTTCTGCTGCAGCTGCTGAGAGAGCAAGGCAATGGCCACATCA  
TCTCCTGGACTTCACGGGATGGTGGTGAATTCAGCTGGTGGATGCAGAGGAGGTGGCCCGGCTGTGGGG  
GCTACGCAAGAACAAGACCAACATGAATTACGACAAGCTCAGCCGGGCTTGGCGTACTACTATGACAAG  
AACATCATCCGCAAGGTGAGCGGCCAGAAGTTCGTCTACAAGTTGTGTCTACCCTGAGGTCGCGAGGTT  
GCTCCACTGAGGACTGCCCGCCAGCCAGAGGTGTCTGTTACCTCCACCATGCCAAATGTGGCCCTGC  
TGCTATACATGCCGCCCCAGGGGACACTGTCTCTGGAAAAGCCAGGCACACCCAAGGGTGCAGGAATGGCA  
GGCCAGGCGGTTTGGCACGCAGCAGCCGGAACGAGTACATGCGCTCGGGCTCTATTCCACCTTACCA  
TCCAGTCTCTGCAGCCGAGCCACCCCCTCATCCTCGGCCTGCTGTGGTCTCCCAAGTGCAGCTCCTGC  
AGGGGCAGCAGCGCCCCCTCGGGGAGCAGGAGCACCAGTCCAAGCCCCTTGGAGGCCTGTCTGGAGGCT  
GAAGAGGCGGCTTGCCTCTGCAGGTATCCTGACCCCGCCGAGGCCCAACCTGAAATCGGAAGAGC  
TTAATGTGGAGCCGGTTTGGGCCGGGCTTGGCCCCAGAAGTAAAAGTAGAAGGGCCCAAGGAAGAGTT  
GGAAGTTGCGGGGAGAGAGGGTTTGTGCCAGAAACCACCAAGGCCGAGCCAGAAGTCCCTCCACAGGAG  
GGCGTGCCAGCCCGGCTGCCCGGTTGTATGGACACCCGAGGGCAGGGGGCGGCCATCGGGCTTCCA  
GCCCTGAGATCTCCAGCCGAGAAAGGGCCGGAAGCCCCGGGACCTAGAGCTTCCACTCAGCCCCAGCCT  
GCTAGGTGGGCCGGGACCCGAACGGACCCAGGATCGGGAAGTGCTCCGGCCTCCAGGCTCCGGGGCCG  
GCGCTGACCCCATCCCTGCTTCTACGCATACATTGACCCCGGTGCTGCTGACACCCAGCTCGTGCCTC  
CTAGCATTCACTTCTGGAGCACCTGAGTCCCATTGCGCCCCGTAGCCCGGCCAAGCTCTCCTTCCAGTT  
TCCATCCAGTGGCAGCGCCAGGTGCACATCCCTTCTATCAGCGTGGATGGCCTCTCGACCCCGTGGTG  
CTCTCCCCAGGGCCCCAGAAGCCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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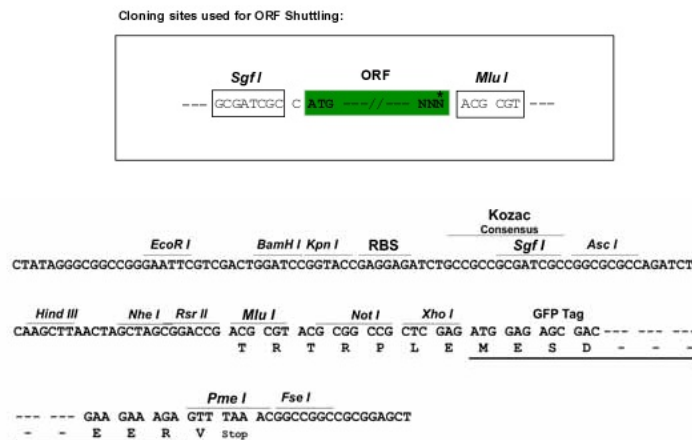
**Protein Sequence:** >RG225701 representing NM\_001114123  
Red=Cloning site Green=Tags(s)

MDPSVTLWQFLQLLREQNGHIIISWTSRDGGEFKLVDAEEVARLWGLRKNKTNMNYDKLSRALRYYYDK  
 NIIRKVSQKQFVYKFVSYPEVAGCSTEDCPPQPEVSVTSTMPNVAPAAIHAAPGDTVSGKPGTPKGAGMA  
 GPGGLARSSRNEYMRSGLYSTFTIQSLQPQPPHPRPAAVLPVLSAAPAGAAAPPSGSRSTSPSPLEACLEA  
 EEAGLPLQVILTPPEAPNLKSEELNVEPGLGRALPPEVKVEGPKKELEVAGERFVPETTKAEPEVPPQE  
 GVPARLPAVVMDDTAGQAGGHAASSPEISQPKGRKPRDLELPLSPSLLGGPGPERTPGSGSGSLQAPGP  
 ALTPSLLPTHHTLTPVLLTPSSLPPSIHFWSLSPAIAPRSPAKLSFQFPSSGSAQVHIPSISVDGLSTPVV  
 LSPGPQKP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001114123

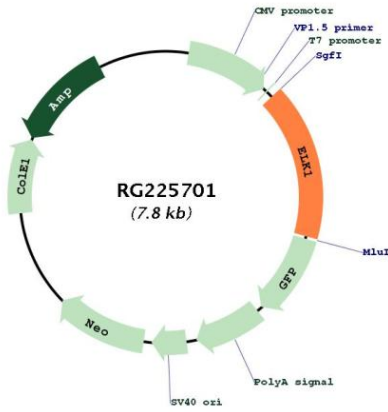
**ORF Size:** 1284 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001114123.2</a></u> , <u><a href="#">NP_001107595.1</a></u>
<b>RefSeq Size:</b>	2934 bp
<b>RefSeq ORF:</b>	1287 bp
<b>Locus ID:</b>	2002
<b>UniProt ID:</b>	<u><a href="#">P19419</a></u>
<b>Cytogenetics:</b>	Xp11.23
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Endometrial cancer, ErbB signaling pathway, Focal adhesion, GnRH signaling pathway, Insulin signaling pathway, MAPK signaling pathway, Prion diseases
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG225701