

Product datasheet for **MG225575**

Elk4 (NM_007923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elk4 (NM_007923) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elk4
Synonyms:	2310011G17Rik; A130026I01Rik; BB162516; SAP-1; Sap1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225575 representing NM_007923 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACAGTGCCATCACTCTGTGGCAGTTCCTTCTCCAGCTCCTGCAGGAGCCTCAGAATGAGCACATGA
TCTGCTGGACATCTAACAAATGGGGATTCAAGCTTCTGCAGGCGGAGGAGGTGGCTCGTCTTTGGGGGAT
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ACCCGCCCTTGTGGTACAGGCAGTGACCCAGCCCTTGGGGATCCTAAGCCCATCTCTCCCGACAGCG
TCTCTTACACCAGCACTTTTTACAGACTCCCATCTTGTGCTGACTCCGAGCCCTTGTCTCCAGCATCC
ACTTTTGGAGCACTCTCAGCCGTTTGTCTCCCTTGTGAGCCAGCCAGACTGCAAGGTGCTAATACGCTTTT
CCAGTTTCCCTCTGACTCAACAGTCATGGCCGTTCACTCTGTGAGCCTGGACGGACCTTCCACTCCG
GGCCATTTTCTCCAGACTGCAGAAGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225575 representing NM_007923
Red=Cloning site Green=Tags(s)

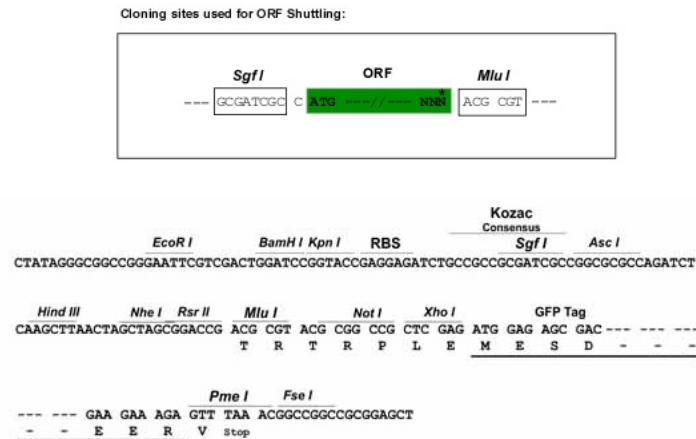
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I HSGLYSSFTLNSLNTSNKKLFKSIKIENPAEKLAEKKAQEPSPVIKFTTPAKKPPIEPVAFAFATSP
S LSPSSEETIQALETLSPTLPSLETSPASISILATTFNPPTPPVPSTPLPLKEPPRTPSPPLSSNPDI
D T IESVASQPMELPENLSLEPKNEDSALPEKDKTNNSSRSKPKGLELTPALVVTGSDPSPLGILSP
L P T A SLTPALFSQTPILLTPSPLLSSIHFWSTLSPFAPLSPARLQGANTLFFQFPSVLNSHGPF
T L SGLDGPSTGPFSPDLQKT
```

TRTRPLE - GFP Tag - V

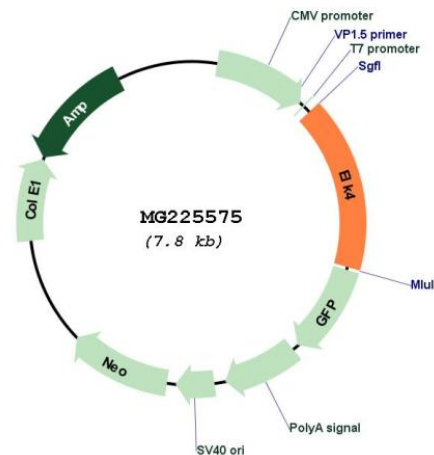
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_007923

ORF Size:	1290 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:	<ol style="list-style-type: none">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_007923.3
RefSeq Size:	3671 bp
RefSeq ORF:	1293 bp
Locus ID:	13714
UniProt ID:	P41158
Cytogenetics:	1 E4
Gene Summary:	Involved in both transcriptional activation and repression. Interaction with SIRT7 leads to recruitment and stabilization of SIRT7 at promoters, followed by deacetylation of histone H3 at 'Lys-18' (H3K18Ac) and subsequent transcription repression. Forms a ternary complex with the serum response factor (SRF). Requires DNA-bound SRF for ternary complex formation and makes extensive DNA contacts to the 5' side of SRF, but does not bind DNA autonomously (By similarity).[UniProtKB/Swiss-Prot Function]