

Product datasheet for **RG200479**

ELF4 (NM_001421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELF4 (NM_001421) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELF4
Synonyms:	ELFR; MEF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG200479 representing NM_001421
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCTATTACCCTACAGCCAGTGACCTGATCTTTGAGTTCGCAAGCAACGGGATGGATGATGATATCC
ACCAGCTGGAAGACCCCTCTGTGTTCCAGCTGTGATCGTGGAGCAGGTACCCTACCCTGATTTACTGCA
TCTGTA CTGGGACTGGAGTTGGACGACGTTTACAATGGCATCATAACAGACGGGACCTTGTGCATGACG
CAGGATCAGATCCTGGAAGGCAGTTTTTTGCTGACAGATGACAATGAGGCCACCTCGCACACCATGTCAA
CCGCGGAAGTCTTACTCAATATGGAGTCTCCAGCGATATCCTGGATGAGAAGCAGATCTTCAGTACCTC
CGAAATGCTTCCAGACTCGGACCCTGCACCAGCTGCTACTCTGCCCACTACCTGTTTCTGCCTCTGAG
CCCATGCCCTGAACAGGGCGGGTACTAGTACCAGGAGGGGCTTCTCTGGAGGAGAAGGCCCTCCA
GAGAGGAAAGTCCAAGAAGACTGGGAAATCAAAGAAGAGAATCCGGAAGACCAAGGCAACCGAAGTAC
CTCACCTGCTACTGACCCAGCATCCCCATTAGGAAGAAATCAAAGGATGGCAAAGGCAGCACCATCTAT
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GAGAGAAAGGCATCTTCAAACCTGGTGGACTCCAAAGCTGTGTCCAAGCTGTGGGGGAAGCAGAAAAACAA
GCCTGACATGAACTATGAGACAATGGGGCGGGCACTAAGATACTACTACCAAAGAGGCATACTGGCCAAA
GTGGAAGGGCAGAGGCTGGTGTACCAGTTTAAGGAGATGCCCAAGGACCTGGTGGTCATTGAAGATGAGG
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CCGGCGAACCAGCTCCAGGCTCATCCAGATCTGCCCCAGGGCAAGGGCAGCTTCTTGGGAGAAG
CCAAAAATTCAGCATGTCGGTCTCCAGCCATCTGCGAGTCTGGAATTGGGACCGTCGCTAGACGAGGAGA
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ACGATCCCACTGACCACGGTGTGACCAATGGGCCTCCTGCCAGTACTACTGCTCCCACTCAGCTCGTTC
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CAGTTTCCAAGACAGCCAGGTGGCAGCCCCAGGGGCTCCACTGATTCTCAGTGGCCTCCCCCACTTCTG
GCTGGGGCAACCGTCCGACCAACCCGGCGCCACCCACGGTCACAGGGGCTGGACCAGCAGGGCCAGCT
CTCAGCCCCCTGGGACTGTCATTGCTGCCTTATCAGGACTTCTGGCACTACAGCAGCCCCCTAGGGTCAA
GGAGGGGCACTGAGGTCTCTCCTATGTTCAAGGATGTTGACGGGGGCCCCATGGAGGGGCTGCTG
GTTCTGAAGAGACCCTGAGGGAGCTCCTGAGAGATCAGGCTCATCTTCAGCCACTTCAAACCCAGGTGG
TTTCCAGGGGTTCCACAATCCGAGCCTTCTGGGCAACCAGACTTTGTCTCTCCAGCCGCCCCACTGT
TGGGCTGACCCAGTGGCTGAACTTGAAGTCTCCTCAGGCTCAGGGTCCCTGCTGATGGCTGAGCCTAGT
GTGACCACATCTGGGAGCCTTCTGACAAGATCCCCACCCAGCCCTTTCTCCCAATTCAACCTACTT
CCCTCATTAAAGATGGAGCCCCATGACATA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG200479 representing NM_001421
 Red=Cloning site Green=Tags(s)

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MAITLQPSDLIFEAFASNGMDDDIHQLEDPSVFPVAVEQVYPDLLHLYSGLELDDVHNGIITDGTLCMT
QDQILEGSFLLTDDNEATSHTMSTAEVLLNMESPSDILDEKQIFSTSEMLPDSDPAPAVTLPNYLPASE
PDALNRAGDTSQDEGHSLEEKASREESAKKTGKSKKRIRKTKGNRSTSPVTDPSIPIRKSKDKGKSTIY
LWEFLLALLQDRNTCPKYIKWTQREKGIKLVDSKAVSKLWGWKQKNKPDMMNYETMGRALRYYYQRGILAK
VEGQRLVYQFKEMPKDLVVIIEDESESEATAAPPQASTASVASASTTRRTSSRVSSRSAPQGGSSSWEK
PKIQHVLGQPSASLELGPSTLDEEIPPTSTMLVSPAEGQVKLTKAVSASSVPSNIHLGVAPVSGSALTQ
TIPLTTVLTNGPPASTTAPTQLVLQSVPAASTFKDTFTLQASFLNASFQDSQVAAPGAPLILSGLPQLL
AGANRPTNPAPPTVTGAGPAGPSSQPPGTVIAAFIRTSGTTAAPRVKEGPLRSSSYVQGMVTGAPMEGLL
VPEETLRELLRDQAHQLPLTQVVSARGSHNPSLLGNQTLSPPSRPTVGLTPVAEELSSGSGSLLMAEPS
VTTSGSLLTRSPTPAPFSPFNPTSLIKMEPHDI
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001421

ORF Size: 1989 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_001421.4](#)

RefSeq Size: 4190 bp

RefSeq ORF: 1992 bp

Locus ID: 2000

UniProt ID: [Q99607](#)

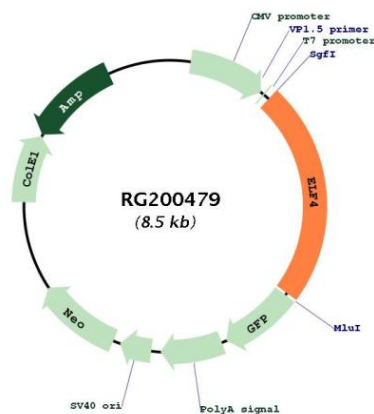
Cytogenetics: Xq26.1

Domains: ETS

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is a transcriptional activator that binds and activates the promoters of the CSF2, IL3, IL8, and PRF1 genes. The encoded protein is involved in natural killer cell development and function, innate immunity, and induction of cell cycle arrest in naive CD8+ cells. Two transcript variants encoding the same protein have been found for this gene.[provided by RefSeq, Jan 2010]

Product images:



Circular map for RG200479