

Product datasheet for **RG232030**

ELF5 (NM_001243081) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ELF5 (NM_001243081) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ELF5
Synonyms: ESE2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232030 representing NM_001243081
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCATCTGCCTCACTCCCACAGGTAATGTTGGACTCGGTGACACACAGCACCTTCTGCCTAATG
CATCCTTCTGCGATCCCCTGATGTCGTGGACTGATCTGTTGAGCAATGAAGAGTACTACCCTGCCTTGA
GCATCAGACAGGTTACTCCTTTTTAATGACGCTGAAGAAAGCAAGGCCACCATCAAAGACTATGCTGAT
TCCAAGCTTTGAAAACAAGTGGCATCAAAGTCAAGACTGTCACAGTCATAGTAGAACAAGCCTCCAAA
GTTCTCATCTATGGGAATTTGTACGAGACCTGCTTCTATCTCCTGAAGAAAAGTGGCATTCTGGAATG
GGAAGATAGGGAACAAGGAATTTTCGGGTGGTTAAATCGGAAGCCCTGGCAAAGATGTGGGGACAAGG
AAGAAAAATGACAGAATGACATATGAAAAGTTGAGCAGAGCCCTGAGATACTACTATAAAACAGGAATTT
TGGAGCGGGTTGACCGAAGGTTAGTGTACAAAATTTGAAAAAATGCACACGGGTGGCAGGAAGACAAGCT
A

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232030 representing NM_001243081
Red=Cloning site Green=Tags(s)

MPSLPHSHRVMLDSVTHSTFLPNASFCPLMSWTDLFSNEEYYPAFEHQTYGYSFFNDAEESKATIKDYAD
SNLKTSGIKSQDCHSHSRTSLQSSHLWEFVRDLLLSPENCGILEWEDREQGIFRVVKSEALAKMWGQR
KKNDRMTEYKLSRALRYYYKTGILERVDRRLVYKFGKNAHWQEDKL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

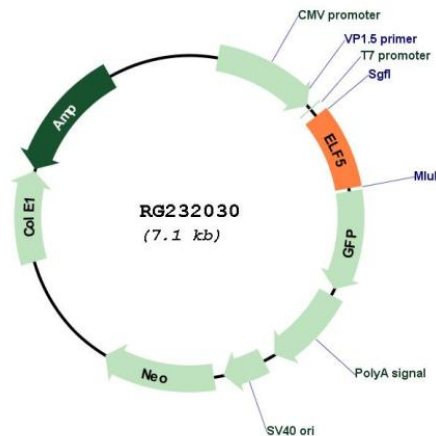


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001243081

ORF Size: 561 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_001243081.1](#), [NP_001230010.1](#)

RefSeq Size: 2222 bp

RefSeq ORF: 564 bp

Locus ID: 2001

UniProt ID: [Q9UKW6](#)

Cytogenetics: 11p13

Protein Families: Transcription Factors

Gene Summary: The protein encoded by this gene is a member of an epithelium-specific subclass of the Ets transcription factor family. In addition to its role in regulating the later stages of terminal differentiation of keratinocytes, it appears to regulate a number of epithelium-specific genes found in tissues containing glandular epithelium such as salivary gland and prostate. It has very low affinity to DNA due to its negative regulatory domain at the amino terminus. Several alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2011]