

Product datasheet for **RG232486**

ELOVL5 (NM_001242828) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ELOVL5 (NM_001242828) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ELOVL5
Synonyms: dj483K16.1; HELO1; SCA38
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232486 representing NM_001242828
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTAA
AAGGATGGTTTCTTCTGGACAATTATATACCCACATTTATCTGCTCTGTCATATATTTACTAATTGTATG
GCTGGGACAAAATACATGAGGAATAAACAGCCATTCTCTTGCCGGGGGATTTTAGTGGTGTATAACCTT
GGACTCACACTGCTGTCTGTATATGTTCTGTGAGTCCAAAAGGGAGCAACCCCGTCGATCTGCCTGTG
CCTCACGAACTGATCCTTCGACTCAGCAGCAGCTGCCAGAAAACAGGTTAGTAACAGGAGTATGGGAAGG
CAAATACAACCTTCTTCTGTCAGGGCACACGCACCGCAGGAGAATCAGATATGAAGATTATCCGTGTCTC
TGGTGGTACTACTTCTCCAAACTCATAGAATTTATGGACACTTTCTTCTTCATCCTGCGCAAGAACAACC
ACCAGATCACGGTCTGCACGTCTACCACCATGCCTCGATGCTGAACATCTGGTGGTTTGTGATGAACCTG
GGTCCCTGCGGCCACTCTTATTTTGGTGCCCACTTAATAGCTTCATCCACGTCCTCATGTACTCTTAC
TATGGTTTGTGTCAGTCCCTCCATGCGTCCATACCTCTGGTGGGAAGTACATCACTCAGGGGCAGC
TGCTTCAGTTTGTGCTGACAATCATCCAGACCAGCTGCGGGTTCATCTGGCCGTGCACATTCCCTCTTGG
TTGGTTGATTTCCAGATTGGATACATGATTTCCCTGATTGCTCTCTTCCAAACTTCTACATTCAGACC
TACAACAAGAAAGGGCCCTCCGAAGGAAAGACCACCTGAAGACCACCAGAATGGTCCATGGCTGCTG
TGAATGGACACACCAACAGCTTTTACCCTGGAAAACAATGTGAAGCCAAGGAAGCTGCCGAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG232486 representing NM_001242828
 Red=Cloning site Green=Tags(s)

MEHFDASLSTYFKALLGPRDTRVKGWFLLDNYIPTFICSVIYLLIVWLGPKYMRNKQPFSCRIGILVYVNL
 GLTLLSLYMFCESKREQRRSACASRTDPSTQQLPENRLVTGVWEGKYNFFCQGTRTAGESDMKIIRVL
 WYVYFSKLIIEFMDTFFFILRKNNHQITVLHVVYHHASMLNIWWFVMNWVPCGHSYFGATLNSFIHVLMYSY
 YGLSSVPSMRPYLWKKYITQGQLLQFVLTIIQTSCGVIWPCFPLGLWLYFQIGYMISLIALFTNFYIQT
 YNKKGASRRKDHLKDHLKDHQNGSMAAVNGHTNSFSPLENNVKPRKLRKD

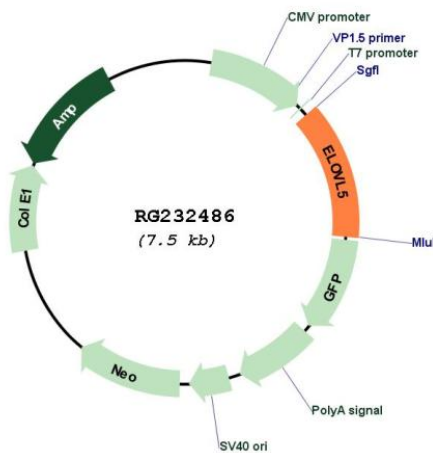
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001242828

ORF Size: 978 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_001242828.1 , NP_001229757.1
RefSeq Size:	3119 bp
RefSeq ORF:	981 bp
Locus ID:	60481
UniProt ID:	Q9NYP7
Cytogenetics:	6p12.1
Protein Families:	Transmembrane
Protein Pathways:	Biosynthesis of unsaturated fatty acids
Gene Summary:	This gene belongs to the ELO family. It is highly expressed in the adrenal gland and testis, and encodes a multi-pass membrane protein that is localized in the endoplasmic reticulum. This protein is involved in the elongation of long-chain polyunsaturated fatty acids. Mutations in this gene have been associated with spinocerebellar ataxia-38 (SCA38). Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Sep 2014]