

Product datasheet for **RG209435**

ELOVL5 (NM_021814) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL5 (NM_021814) 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:	>RG209435 representing NM_021814 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTAA
AAGGATGGTTTCTTCTGGACAATTATATACCCACATTTATCTGCTCTGTCATATATTTACTAATTGTATG
GCTGGGACCAAATACATGAGGAATAAACAGCCATTCTCTTGGCCGGGGATTTTAGTGGTGATAACCTT
GGACTCACACTGCTGTCTGTATATGTTCTGTGAGTTAGTAACAGGAGTATGGGAAGGCAAATACAAC
TCTTCTGTCAGGGCACACGCACCCGAGGAGAATCAGATATGAAGATTATCCGTGTCCTCTGGTGGTACTA
CTTCTCCAAACTCATAGAATTTATGGACTTTTCTTTCATCCTGCGCAAGAACAACCACCAGATCAGG
GTCCTGCACGTCTACCACCATGCCTCGATGCTGAACATCTGGTGGTTTGTGATGAACTGGTCCCTGCG
GCCACTCTATTTTGGTGCCACACTTAATAGCTTCATCCACGTCCTCATGTACTCTTACTATGGTTTGTG
GTCAGTCCCTTCCATGCGTCCATACCTCTGGTGGGAAGAAGTACATCACTCAGGGGAGCTGCTTCAGTTT
GTGCTGACAATCATCCAGACCAGCTGCGGGTCTCTGGCCGTGCACATTCCTCTTGGTTGGTTGTATT
TCCAGATTGGATACATGATTTCCCTGATTGCTCTCTTCAAACTTCTACATTGAGCTACAACAAGAA
AGGGCCCTCCCGAAGGAAAGACCACCTGAAGACCACCAGAATGGGTCCATGGCTGCTGTGAATGGACAC
ACCAACAGCTTTTCAACCCTGAAAACAATGTGAAGCCAAGGAAGCTGCGGAAGGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209435 representing NM_021814
Red=Cloning site Green=Tags(s)

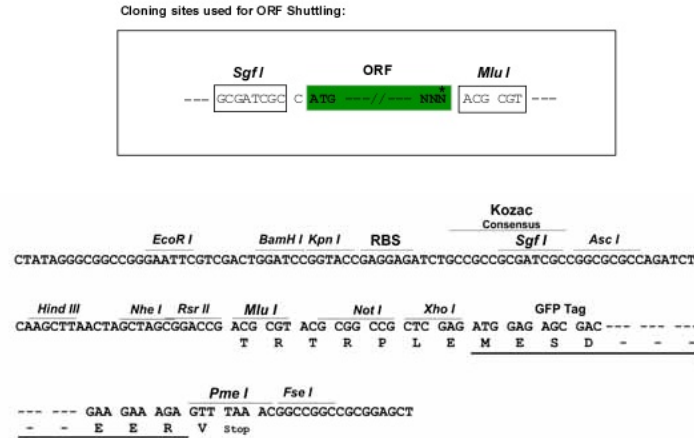
MEHFDASLSTYFKALLGPRDTRVKGWFLLDNYIPTFICSVIYLLIVWLGPKYMRNKQPFSCRILVYYNL
 GLTLLSLYMFCELVTVGWEGKYNFFCQGTRTAGESDMKIIRVLWVYFSLKIEFMDTFFFILRKNNHQIT
 VLHVVYHHASMLNIWWFVMNWVPCGHSYFGATLNSFIHVLMSYGYLSSVPSMRPYLWKKYITQGQLLQF
 VLTIIQTSCGVIWPCTFPLGLWLYFQIGYIMISLIALFTNFYIQTYNKKGASRRKDHLKDHQNGSMAAVNGH
 TNSFSPLENNVKPRKLRKD

TRTRPLE - GFP Tag - V

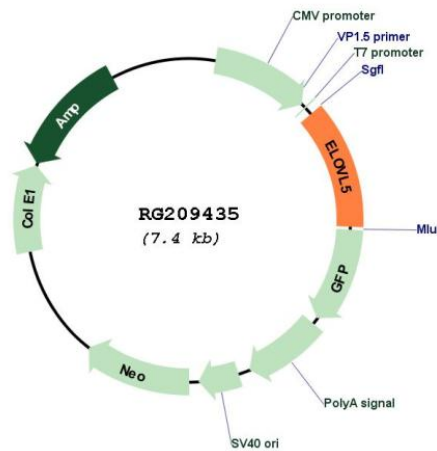
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_021814

ORF Size: 897 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_021814.5
RefSeq Size:	3003 bp
RefSeq ORF:	900 bp
Locus ID:	60481
UniProt ID:	Q9NYP7
Cytogenetics:	6p12.1
Domains:	ELO
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]