

## Product datasheet for **RG237293**

### **ELOVL5 (NM\_001301856) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL5 (NM_001301856) 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:	>RG237293 representing NM_001301856. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAACATTTTGATGCATCACTTAGTACCTATTTCAAGGCATTGCTAGGCCCTCGAGATACTAGAGTA
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TGGTTGATTTCCAGATTGGATACATGATTTCCCTGATTGCTCTTTCACAACTTCTACATTGAGACC
TACAACAAGAAAGGGCCTCCCGAAGGAAAGACCACCTGAAGGACCACCAGAATGGTCCATGGCTGCT
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```



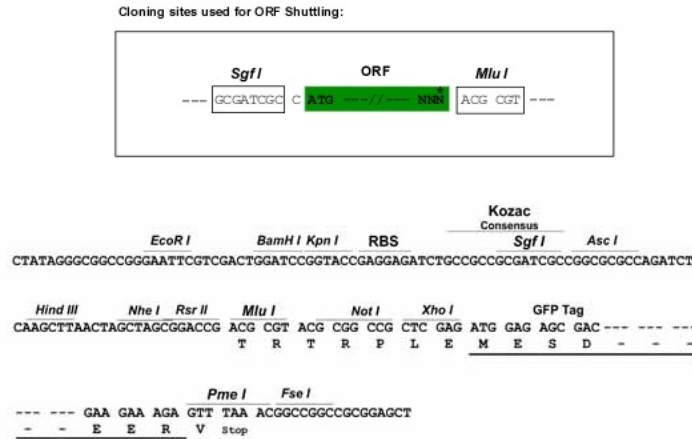
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**Protein Sequence:** >Peptide sequence encoded by RG237293  
 Blue=ORF Red=Cloning site Green=Tag(s)

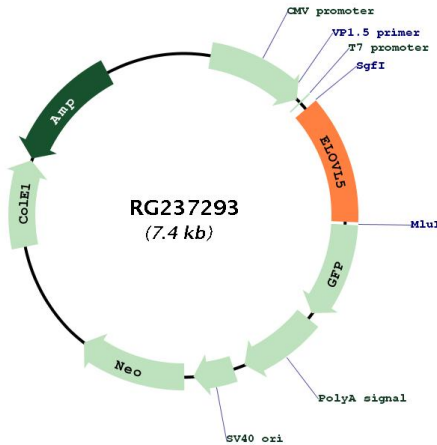
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 MGYFYHFHGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001301856

<b>ORF Size:</b>	897 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001301856.2</a>
<b>RefSeq Size:</b>	3271 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	60481
<b>UniProt ID:</b>	<a href="#">Q9NYP7</a>
<b>Cytogenetics:</b>	6p12.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Biosynthesis of unsaturated fatty acids
<b>MW:</b>	35.3 kDa
<b>Gene Summary:</b>	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]