

# Product datasheet for RC232289

## ELOVL1 (NM\_001256401) Human Tagged ORF Clone

#### **Product data:**

#### OriGene Technologies, Inc.

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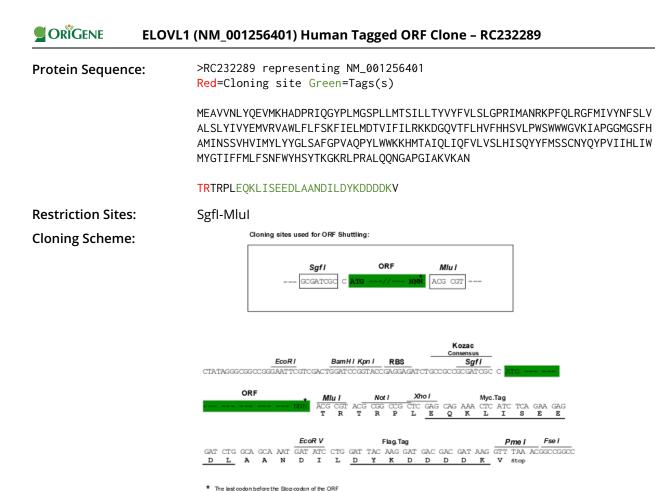
Product Type:	Expression Plasmids
Product Name:	ELOVL1 (NM_001256401) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELOVL1
Synonyms:	CGI-88; IKSHD; Ssc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	<pre>&gt;RC232289 representing NM_001256401 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAG

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC<mark>GCGATCGC</mark>C

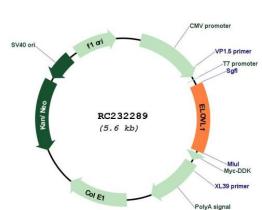
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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Plasmid Map:



ACCN: ORF Size: NM\_001256401 756 bp

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of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amount of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.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 throug 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 prevailin variants is recommended prior to use. More infoOTI 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 Smin. 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 liqu at the bottom.	Sevent Se	
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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 lique 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 001256401.1, NP 001243330.1RefSeq ORF:1457 bpLocus ID:64834UniProt ID:09BW60Cytogenetics:1p34.2Protein Families:Transmembrane		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
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RefSeq Size:1457 bpRefSeq ORF:759 bpLocus ID:64834UniProt ID:09BW60Cytogenetics:1p34.2Protein Families:Transmembrane	Reconstitution Me	<ol> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of</li> </ol>
RefSeq ORF:759 bpLocus ID:64834UniProt ID:09BW60Cytogenetics:1p34.2Protein Families:Transmembrane	RefSeq:	<u>NM 001256401.1, NP 001243330.1</u>
Locus ID:64834UniProt ID:Q9BW60Cytogenetics:1p34.2Protein Families:Transmembrane	RefSeq Size:	1457 bp
UniProt ID:Q9BW60Cytogenetics:1p34.2Protein Families:Transmembrane	RefSeq ORF:	759 bp
Cytogenetics:1p34.2Protein Families:Transmembrane	Locus ID:	64834
Protein Families: Transmembrane	UniProt ID:	<u>Q9BW60</u>
	Cytogenetics:	1p34.2
<b>MW:</b> 29.9 kDa	Protein Families:	Transmembrane
	MW:	29.9 kDa

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### Scheme ELOVL1 (NM\_001256401) Human Tagged ORF Clone – RC232289

Gene Summary:Catalyzes the first and rate-limiting reaction of the four reactions that constitute the long-<br/>chain fatty acids elongation cycle. This endoplasmic reticulum-bound enzymatic process<br/>allows the addition of 2 carbons to the chain of long- and very long-chain fatty acids (VLCFAs)<br/>per cycle. Condensing enzyme that exhibits activity toward saturated and monounsaturated<br/>acyl-CoA substrates, with the highest activity towards C22:0 acyl-CoA. May participate in the<br/>production of both saturated and monounsaturated VLCFAs of different chain lengths that<br/>are involved in multiple biological processes as precursors of membrane lipids and lipid<br/>mediators. Important for saturated C24:0 and monounsaturated C24:1 sphingolipid synthesis.<br/>Indirectly inhibits RPE65 via production of VLCFAs.[UniProtKB/Swiss-Prot Function]

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