

Product datasheet for **RC206248**

ELOVL4 (NM_022726) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ELOVL4 (NM_022726) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ELOVL4
Synonyms: ADMD; CT118; ISQMR; SCA34; STGD2; STGD3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC206248 representing NM_022726
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCTCCTGGACTCGGAGCCGGGTAGTGTCCCTAACGTAAGTGTCCACGGCACTCAACGACACGGTAG
 AGTTCTACCGCTGGACCTGGTCCATCGCAGATAAGCGTGTGAAAATTGGCCTCTGATGCAGTCTCCTTG
 GCCTACACTAAGTATAAGCACTCTTTATCTCTGTTTGTGTGGCTGGTCCAAAATGGATGAAGGACCGA
 GAACCTTTTCAGATGCGTCTAGTGCTCATTATCTATAATTTGGGATGGTTTTGCTTAACCTCTTTATCT
 TCAGAGAGTTATTCATGGGATCATATAATGCGGGATATAGCTATATTTGCCAGAGTGTGGATTATTCTAA
 TAATGTTTCATGAAGTCAAGTATAGCTGCTGCTGTGGTGGTACTTTGTATCTAAAGGAGTTGAGTATTTG
 GACACAGTGTTTTTTATTCTGAGAAAGAAAAACAACCAAGTTTCTTTCCTTCATGTGTATCATCACTGTA
 CGATGTTTACCTTGTGGTGGATTGGAATTAAGTGGGTTGCAGGAGGACAAGCATTTTTTGGAGCCCGATT
 GAATTCCTTTATCCATGTGATTATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTAATGTA
 ATCTTTGGTGGAAACGATACCTGACTATGTTGCAACTGATTCAATTCATGTGACCATTGGGCACACGG
 CACTGTCTCTTTACACTGACTGCCCTTCCCAAAATGGATGCACTGGGCTCTAATTGCCTATGCAATCAG
 CTTTCATATTTCTTTCTTAACCTTCTACATTGCGACATACAAAGAGCCTAAGAAACAAAAGCTGGAAAA
 ACAGCCATGAATGGTATTTTCAGCAAATGGTGTGAGCAAATCAGAAAAACAACCTCATGATAGAAAATGGAA
 AAAAGCAGAAAAATGAAAAGCAAAGGAGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206248 representing NM_022726
Red=Cloning site Green=Tags(s)

MGLLDSEPGSVLNVVSTALNDTVEFYRWTWSIADKRVENWPLMQSPWPTLSISTLYLLFVWLGPKWMKDR
 EPFQMRLVLIYNFQGMVLLNLFIFRELFMGSYNAGYSYICQSVSDYSNNVHEVRIAALWWYFVSKGVEYL
 DTVFFILRKKNNQVSFLHVVHCTMFTLWWIGIKWVAGGQAFFGAQLNSFIHVIMYSYYGLTAFGPWIQK
 YLWVKRYLTMLQLIQFHVTIGHTALSLYTDPCFPKWMHWALIAAIAISFIFLFLNFYIRTYKEPKKPKAGK
 TAMNGISANGVSKSEKQLMIENGGKKQKNGKAKGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4733_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022726

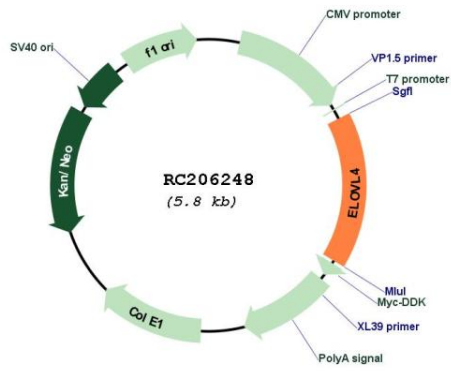
ORF Size: 942 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts 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 amounts 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 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:	<u>NM_022726.4</u>
RefSeq Size:	3085 bp
RefSeq ORF:	945 bp
Locus ID:	6785
UniProt ID:	<u>Q9GZR5</u>
Cytogenetics:	6q14.1
Domains:	ELO
Protein Families:	Transmembrane
MW:	37.3 kDa
Gene Summary:	This gene encodes a membrane-bound protein which is a member of the ELO family, proteins which participate in the biosynthesis of fatty acids. Consistent with the expression of the encoded protein in photoreceptor cells of the retina, mutations and small deletions in this gene are associated with Stargardt-like macular dystrophy (STGD3) and autosomal dominant Stargardt-like macular dystrophy (ADMD), also referred to as autosomal dominant atrophic macular degeneration. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC206248