

Product datasheet for **RG206248**

ELOVL4 (NM_022726) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL4 (NM_022726) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELOVL4
Synonyms:	ADMD; CT118; ISQMR; SCA34; STGD2; STGD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206248 representing NM_022726 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCCTGGACTCGGAGCCGGTAGTGTCCCTAACGCTAGTGTCCACGGCACTCAACGACACGGTAG
AGTTCTACCGCTGGACCTGGTCCATCGCAGATAAGCGTGTGAAAATTGGCCTCTGATCGGGTCTCCTTG
GCCTACACTAAGTATAAGCACTCTTTATCTCTGTTTGTGTGGCTGGTCCAAAATGGATGAAGGACCGA
GAACCTTTTCAGATGCGTCTAGTGCTCATTATCTATAATTTGGGATGGTTTTGCTTAACCTCTTTATCT
TCAGAGAGTTATTCATGGGATCATATAATGCGGGATATAGCTATATTTGCCAGAGTGTGGATTATTCTAA
TAATGTTTCATGAAGTCAAGTATAGCTGCTCTGTGGTACTTTGTATCTAAAGGAGTTGAGTATTTG
GACACAGTGTTTTTTATTCTGAGAAAGAAAAACAACCAAGTTTCTTTCCTTCATGTGTATCATCACTGTA
CGATGTTTACCTTGTGGTGGATTGGAATTAAGTGGGTTGCAGGAGGACAAGCATTTTTTGGAGCCCGATT
GAATTCCTTTATCCATGTGATTATGTACTACTATGGGTTAACTGCATTTGGCCCATGGATTCAGAAA
TATCTTTGGTGGAAACGATACCTGACTATGTTGCAACTGATTCAATTCATGTGACCATTGGGCACACAG
CACTGTCTCTTTACACTGACTGCCCTTCCCAAAATGGATGCACTGGGCTCTAATTGCCTATGCAATCAG
CTTCATATTTCTTTCTTAACCTTCTACATTGGACATACAAAGAGCCTAAGAAACAAAAGCTGGAAAA
ACAGCCATGAATGGTATTTTCAGCAAATGGTGTGAGCAAATCAGAAAAACAACCTCATGATAGAAAATGGAA
AAAAGCAGAAAAATGAAAAGCAAAGGAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206248 representing NM_022726
 Red=Cloning site Green=Tags(s)

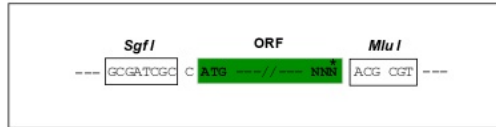
MGLLDSEPGSVLNVVSTALNDTVEFYRWTWSIADKRVENWPLMRSPWPTLSISTLYLLFVWLGPKWMKDR
 EPFQMRLVLIYNFGMVLLNLFIFRELFMGSYNAGYSYICQSVSDYSNNVHEVRIAALWWYFVSKGVEYL
 DTVFFILRKKNNQVSFLHVVHCTMFTLWWIGIKWVAGGQAFFGAQLNSFIHVIMYSYYGLTAFGPWIQK
 YLWVKRYLTMLQLIQFHVTIGHTALSLYTDCPFPKMHWALIAAIAISFIFLFLNFYIRTYKEPKPKAGK
 TAMNGISANGVSKSEKQLMIENGGKKQKNGKAKGD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_022726

ORF Size: 942 bp

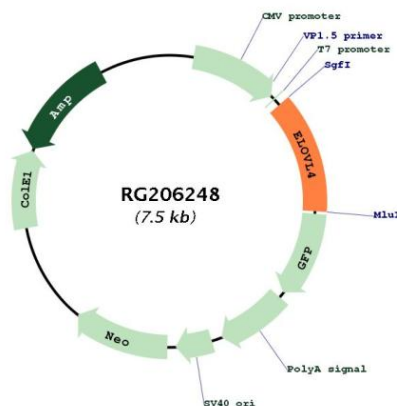
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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_022726.2, NP_073563.1</u>
RefSeq Size:	2992 bp
RefSeq ORF:	945 bp
Locus ID:	6785
UniProt ID:	<u>Q9GZR5</u>
Cytogenetics:	6q14.1
Domains:	ELO
Protein Families:	Transmembrane
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 RG206248