

Product datasheet for **SC108083**

ELOVL4 (NM_022726) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOVL4 (NM_022726) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOVL4
Synonyms:	ADMD; CT118; ISQMR; SCA34; STGD2; STGD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108083 sequence for NM_022726 edited (data generated by NextGen Sequencing)

```

ATGGGGTCCTGGACTCGGAGCCGGGTAGTGTCTAAACGTAGTGTCCACGGCACTCAAC
GACACGGTAGAGTTCTACCGCTGGACCTGGTCCATCGCAGATAAGCGTGTGAAAAATTGG
CCTCTGATGCAGTCTCCTTGGCCTACACTAAGTATAAGCACTCTTTATCTCCTGTTTGTG
TGGCTGGGTCCAAAATGGATGAAGGACCGAGAACCTTTTCAGATGCGTCTAGTGCTCATT
ATCTATAATTTTGGGATGGTTTTGCTTAACCTCTTTATCTTCAGAGAGTTATTCATGGGA
TCATATAATGCGGGATATAGCTATATTTGCCAGAGTGTGGATTATTCTAATAATGTTTCAT
GAAGTCAGGATAGCTGCTGCTCTGTGGTGGTACTTTGTATCTAAAGGAGTTGAGTATTTG
GACACAGTGTTTTTTATTCTGAGAAAAGAAAAACAACCAAGTTTCTTTCTTCATGTGTAT
CATCACTGTACGATGTTTACCTTGTGGTGGATTGGAATTAAGTGGGTTGCAGGAGGACAA
GCATTTTTTGGAGTCCAGTTGAATTCCTTTATCCATGTGATTATGTACTCATACTATGGG
TTAACTGCATTTGGCCCATGGATTTCAGAAATATCTTTGGTGGAAACGATACCTGACTATG
TTGCAACTGATTCAATCCATGTGACCATTGGGCACACGGCACTGTCTTTACACTGAC
TGCCCCCTCCCAAATGGATGCACTGGGCTCTAATTGCCATGCAATCAGCTTCATATTT
CTCTTTCTTAACCTCTACATTCGGACATACAAAGAGCCTAAGAAACAAAAGCTGGAAAA
ACAGCCATGAATGGTATTTTCAGCAAATGGTGTGAGCAAATCAGAAAAACAACCTCATGATA
GAAAATGGAAAAAAGCAGAAAAATGGAAAAGCAAAAGGAGATTA

```

Clone variation with respect to NM_022726.3
554 c=>t



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022726 unedited
 GCTGGATTTGTAACCGACTTATATAGGCGGCACCGCAATTCGCACGAGGGCGCGAGGCTG
 CAGACTGGTGCAGCGCACTGTGCTGGCGGCTGGGCCTCCTCCACCTCCTCGTCTTTCTCC
 CGGGAACCTTGACGACGCCTTCCGCTTGGCCCTGCCTTCTGCCGCATCCCCGCCGCCGCG
 GCGCCTTGAGGAGCAGGAGAAGACGCAGCCTGTCCGCCCGGTTAGAGGGGTTCCCGGCC
 GCCGCTCGCCCCGTGGCCGCCACCGCCTCCGGGGTCAGCCCTCTCTCTGGTCTCCGCT
 TTCTCCTGCCGCCAGCGCCGCTCATCGCCGCGATGGGGCTCCTGGACTCGGAGCCGGGT
 AGTGTCCATAAACGTAGTGTCCACGGCACTCAACGACACGGTAGAGTTCTACCGCTGGACC
 TGGTCCATCGCAGATAAGCGTGTGGAAAATTGGCCTCTGATGCAGTCTCCTTGGCCTACA
 CTAAGTATAAGCACTCTTTATCTCCTGTTTGTGTGGTGGGTCCAAAATGGATGAAGGAC
 CGAGAACCTTTTCAGATGCGTCTAGTGCTCATTATCTATAATTTTGGGATGGTTTTGCTT
 AACCTCTTTATCTTCAGAGAGTTATTCATGGGATCATATAATGCGGGATATAGCTATATT
 TGCCAGAGTGTGGATTATTCTAATAATGTTTCATGAAGTCAGGATAGCTGCTGCTGTGG
 TGGTACTTTGTATCTAAAGGAGTTGAGTATTTGGCACAGTGTATTTATTCTGAGAAAGAA
 AACACCCAAGTTCTTTCTTCTGTGTATCATCACTGTACGAATGTTACCTTGTGGTGGAT
 GGAAATAAGTGGGTGCAAGAGGACAGCATTTTTGGAGTCCAGTGAATTCCTTATCATGTG
 ATATGTACTCTACTATGGTTACTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022726 unedited
 CGCAATCTAGAGTCGAGNNNTNTT
 TCCCCCAGCAAAAGTTTTTTTATTGGGCTGAAATCAGGTACCAGGGAATGAATACCTTTT
 GGAACCAAGTCCAAAATGTTACAAAAGATTTACAAATTTTCAGTCTTTACACACTGAGCAA
 CAAAACAAGGGGTTGAATCCTTTTAAATCAAACACTTTTATATGTGGCAAATTTTCTGT
 AATTCTCATGACTGCATGCCTTTGGGGAAAAAGTTTTTAAATTTAATGCACAATAAATAT
 GTTATAGCTTACAAAATATTCTGAAATAGTTTGTACAAACAGAATACATCCTACACATGC
 AGTTTTGACATGTTGTTGAAATACTTAAAAAATATTATGCTTTTTTTTTGGCCACATTTT
 GTCTTTCTTTAGAAATCCCTTTGCAACATCCCTTAAAAAATTACCCTATGTAGTAAAACA
 TGATACAAATTTTTCTACTTTATTTCCAGTGGTTCACTTATATTACATGAAATACTTC
 ATTTGTAATAGCAAATGAATGTTATAGTTCGGACTACTCTCACTTTTATTCATTTGGG
 GTTTAAACAACACCTTGTAAACATCAAGCTTTGAATTTAACATTTTACCACCAAGGAGT
 CAAGATTATTGCACCAAAATGGGTTTATACTTCATACCTAGTTAAAAATAAGATCTTGCA
 ACTTAGTCCAAGGAAAACGTTTTCTCCAAATAACCACTTTGAAGAGAGGGTNGTTNCACA
 GAATGTTGGGGTATGCTATTTGNCATAAAAAGCAAAAAATCTGNGGGATTTGAAAGTTAC
 ATTNAAATTACATTTAAAAGACTCTGNTTTTTAATAAANTTTATTATTTTAAATGTCCTTCC
 ACGANAAGTNGTATTTTTCATTTGAAATCGNACGGCTAATCAACANGAAGCTGGTAATAC
 TTTCTACGCCTANTGACTTCTTAGAGTCTAAAGAAGAGGGGTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_022726

Insert Size:

2940 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](#)

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 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_022726.2](#), [NP_073563.1](#)

RefSeq Size: 2992 bp

RefSeq ORF: 945 bp

Locus ID: 6785

UniProt ID: [Q9GZR5](#)

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]