

Product datasheet for **SC111036**

ELOB (NM_007108) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELOB (NM_007108) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELOB
Synonyms:	SIII; TCEB2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111036 sequence for NM_007108 edited (data generated by NextGen Sequencing) ATGGACGTGTTCCCTCATGATCCGGCGCCACAAGACCACCATCTTCACGGACGCCAAGGAG TCCAGCACGGTGTTCGAACTGAAGCGCATCGTCGAGGGCATCCTCAAGCGCCTCCTGAC GAGCAGCGGCTGTACAAGGATGACCAACTCTTGGATGATGGCAAGACACTGGGCGAGTGT GGCTTCACCAGTCAAACAGCACGGCCACAGGCCCCAGCCACAGTGGGGCTGGCCTCCGG GCAGATGACACCTTTGAGGCCCTGTGCATCGAGCCGTTTTCCAGCCCGCCAGAGCTGCC GATGTGATGAAGCCCCAGGACTCGGGAAGCAGTGCCAATGAACAAGCCGTGCAGTGA Clone variation with respect to NM_007108.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_007108 unedited</p> <pre>TCCGTGCAAAATTTGTNATACGACTCATATAGGGCGGCCGCAATTCGCACGAGGAGGCA GCAGCCGCGATGGACGTGTTCTCATGATCCGGCGCCACAAGACCACCATCTTCACGGAC GCCAAGGAGTCCAGCACGGTGTTCGAAGTGAAGCGCATCGTCGAGGGCATCTCAAGCGG CCTCCTGACGAGCAGCGGCTGTACAAGGATGACCAACTTTGGATGATGGCAAGACTG GGCGAGTGTGGCTTACCAGTCAAACAGCACGGCCACAGGCCACAGCCACAGTGGGGCTG GCCTTCCGGGCGATGACACCTTTGAGGCCCTGTGCATCGAGCCGTTTTCCAGCCCGCA GAGCTGCCCGATGTGATGAAGCCCCAGGACTCGGGAAGCAGTGCCAATGAACAAGCCGTG CAGTGAGACCCCCAAGAGGCCATTTCGCCAATAAAAGAGATTTGGGAGTCTGAAAAA AAAAACCACCAAATCAAATACCCAAAAAACCAAATACCAAAAAAACAAAAAAC CTCGCCTTTAAATTTGGGGCCGGGTCACTTGTTCCTGAACAAATCCCGGGGGGCATC CCTGTGACCCCTCCAGTGCCTTCTGGCCTTAAAGTGGCCATTCCAGGGCCACCAG CCTTGCCTATTAATAAATTAAGTGGCATCATTTGTCTGACTAGGGGCCCTTCTATAATAT AATGGGGTGAGGGGGCGTGGGTTATGACAACCCCGTTCCATCTCCCCATAACCCCTTT TCCTGCCCGCGGGTTCCTCTTTCCCCATATCTCTGATATCGCTTCCCAAACCTTCTTGC ACTCCCGCATTCCTCCCCCTTCGGCCCTACCCATCCTCTTCTACTCTACCACCTCCGC TCCCCCTCATTTTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_007108 unedited</p> <pre>CGGCCGCAATCTAGAGTCGAGNNNTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAACCCCAAATTTTTTTTATTGGGAAAAATGG CCCTTTTGGGGTCTAACTGCACGTTTGTAAATTGGCACTGTTCCCAAGTCTGGGGC TTAATAAAATCGGCAATTTTGGGGGCTGAAAAACGGTTCAATCCACAGGCCTAAAAG GGGTCAATTTCCCGAAAGGCCACCCCACTGGGGCTGGGCCCTGGGCCCTCCTTTTTAA CTGAAAAACCCACCTCCCCAGGGTTTGCCATCATCAAAAAGTTGGTCATCCTTGAAC ACCCCTGCTCTTAAAAAGGCCCTTGGAGGATCCCTCAACAATGCCCTAATTTAAAAAC ACCGGGCTGAACCTTGGCGCCCGAAAAATGGGGTTTTGGGGCCCGAATAAAAA AACACTTCCATCGCGTGTCTGCCTCCTCGGGCAAATCCCGGCCCTATAGGGAGC CGTATAACAAAATTTAACGGTTCATAAACAACCTTTGTTTATATAAACCTCCCACCGT ACACCCCTACCGCCATTTGCGTAAACGGGGCGGGTTATTACAACATTTTAAAAAGCCC CGTTGATTTTGGGCCAAAACAACTCCATTGACGTCAATGGGTGGAACCTTGAGAAT CCCCGTAAGTCAAACCGTTATCCCGCCATTGGTGTCACTGCCAAAACCCCATCCACCA TGGAAATAACCGATGACCTAAACTAAATGCACTGCCCAATAAGAAAAACCCCTAGGTCAT GTCCTGGGCAATATGCAGGCGGGCCATTACCGTAATTACCACAATAGGGGCGACCTTGC ATAAAAACCTTGAGTCTGCAAGGGCTTTCACCAAACCCCATGACGCAAGGAAAGC CCTAGGCCTCATTG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_007108
Insert Size:	540 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_007108.2](#), [NP_009039.1](#)

RefSeq Size: 998 bp

RefSeq ORF: 357 bp

Locus ID: 6923

UniProt ID: [Q15370](#)

Cytogenetics: 16p13.3

Domains: UBP

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Pathways in cancer, Renal cell carcinoma, Ubiquitin mediated proteolysis

Gene Summary: This gene encodes the protein elongin B, which is a subunit of the transcription factor B (SIII) complex. The SIII complex is composed of elongins A/A2, B and C. It activates elongation by RNA polymerase II by suppressing transient pausing of the polymerase at many sites within transcription units. Elongin A functions as the transcriptionally active component of the SIII complex, whereas elongins B and C are regulatory subunits. Elongin A2 is specifically expressed in the testis, and capable of forming a stable complex with elongins B and C. The von Hippel-Lindau tumor suppressor protein binds to elongins B and C, and thereby inhibits transcription elongation. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene. Pseudogenes have been identified on chromosomes 11 and 13. [provided by RefSeq, Aug 2008]

Transcript Variant: This variant (1) encodes the predominant isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.