

Product datasheet for **RC202462**

Elongin A (TCEB3) (NM_003198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elongin A (TCEB3) (NM_003198) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elongin A
Synonyms:	SIII; SIII p110; TCEB3; TCEB3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC202462 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGGAGTCGGCGCTCCAAGTTGTGGAGAAGTCAGGCGCGCTGGCCGGAACCCGGACCTA
 AGAAGCTATTGAAATATTTGAAGAACTCTCACCCCTGCCTATTACAGTAGACATTCTTGGCGAGACTGG
 GGTTGGGAAAACAGTAAATAGCTTGCAGAAAACACGAGCATGTTGGAAGCTTTGCCAGGGACCTAGTGGCC
 CAGTGGAGAAGCTGGTTCCTGTGGAACGAAATGCTGAGCCTGATGAACAGGACTTTGAGAAGAGCAATT
 CCCGAAAGCGCCCTCGGGATGCCCTGCAGAAGGAGGAGATGGAGGGGGACTACCAAGAAACCTGGAA
 AGCCACGGGGAGCCGATCCTATAGCCCTGACCACAGGCAGAAGAAACATAGGAACTCTCGGAGCTCGAG
 AGACCTCACAAGTGTCTCACGGTCATGAGAGGAGAGATGAGAGAAAGAGGTGTACAGAATGTACACAA
 CTTACTCTTCAGACCCTGAGTCTTCTGATTATGGCCATGTTCAATCCCCTCCATCTTGTACCAGTCTCA
 TCAGATGTACGTGACCACTACAGATCCCTGGAGGAGGACCAGGAGCCATTGTTTCACACCAGAAGCCT
 GGGAAAGGCCACAGCAATGCCTTTCAGGACAGACTCGGGGCCAGCCAAGAACGACACCTGGGTGAACCCC
 ATGGGAAAGGGTGTGAGTCAAAAACAGGAGCACAAATCTTCCACAAGGACAAACGCCCGTGGATGC
 CAAGAGTGATGAGAAGGCCTCTGTGGTGAAGCAGAGAGAAATCACACAAGGCCCTCTCAAAGAGGAGAAC
 CGAAGGCCACCCTCAGGGGACAAATGCAAGGGAGAAACCGCCCTCTAGTGGCGTAAAGAAAGAGAAGGACA
 GAGAGGGCAGCAGCCTGAAGAAGAAGTGTTCCTCCCTCAGAGGCGCTTCAGACAACCACTGAAAAA
 GCCAAAGCACAGAGACCCAGAGAAAGCCAAATGGACAAAAGCAAGCAAGGTCTGGACAGCTTTGACACA
 GGAAAAGGAGCAGGAGACCTGTTGCCAAGGTAAAAGAGAAGGGTCTAACAACTAAAGACTCCAGAAG
 GGAAAGTCAAACTAATTTGGATAGAAAGTCACTGGGCTCCCTCCCTAAAGTTGAGGAGACAGATGGA
 GGATGAATTCGAGCAGCCAACCATGTCTTTGAACTCCTACCTCAGCTATGACCAGCCCCGGAAGAAAAAG
 AAAAAGATTGTGAAAACCTCAGCCACGGCACTTGAGATAAAGGACTTAAAAAAATGACTCTAAAAGCA
 CTGGTAAAAACTTGACTCAGTTCAGAAATACCCAAGGTGAACAAAACCAAGTCAGAGAAGCCGGCTGG
 AGCTGATTTAGCCAAGCTGAGAAAGGTGCCTGATGTGTTGCCAGTGTGCCAGACCTCCCGTTACCCGCG
 ATACAGGCCAATTACCGTCCACTGCCTCCCTCGAGCTGATATCCTCCTCCAGCCAAAGCGAAAAGCGT
 TCTCTTACCCCAGGAAGAAGAAGAAGTGGATTTACTGGGCGCAGAATGAATCCAAGATGCAGGTGTA
 TTCTGGTCCAAGTGTGCCTATCTCCCTAAAATGATGACCTTGACCAGCAATGCATCCGAGTACTTAAA
 AACAACTCGATTCAATCTTTGAAGTGGGAGGAGTCCCATACTCTGTTCTTGAACCCGTTTTGGAGAGGT
 GTACACCTGATCAGCTGTATCGCATAGAGGAATACAATCATGTATTAATTGAAGAAACAGATCAATTATG
 GAAAGTTCATTGTCACCGAGACTTTAAGGAAGAAAGACCCGAAGAGTATGAGTCGTGGCGAGAGATGTAC
 CTGCGGCTTCAGGACGCCGAGAGCAGCGGCTACGAGTACTAACAAAGAAATATCCAGTTCGCACATGCCA
 ATAAGCCCAAAGGCCGACAAGCAAAGATGGCCTTTGTCAACTCTGTGGCCAAGCCACCTCGTGACGTCCG
 GAGGAGGCAGGAAAAGTTTGAACGGGAGGAGCAGCTGTCCCTGAGAAAAATCAAGATCAAGCCAGCCCCG
 TACCCCATGGGAAGCAGCCATGCTTCCGCCAGTAGTATCAGCTTAACCCAGCCCTGAGGAGCCGGCCT
 ATGATGGCCAAAGCAGCAGTGCCTTGGCACCAGTGGTCAGCAGCACTGTTTCTATGATCCTAG
 GAAACCCACTGTGAAGAAAATTTGCCCAATGATGGCCAAGACAATTAAGCTTTCAAGAACAGATTCTCC
 CGACGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202462 protein sequence
Red=Cloning site Green=Tags(s)

MAAESALQVVEKLQARLAANPDPKLLKYLKLLSTLPITVDILAETGVGKTVNSLRKHEHVGSFARDLVA
QWKKLVPVERNAEPDEQDFEKSNSRKRPRDALQKEEEMEGDYQETWKATGSRSYSPDHRQKKHRKLESE
RPHKVSFHGHERRDERKRCHRMSPITYSSDPESDYGHVQSPPSCTSPHQMYVDHYRSLEEDQEPIVSHQKP
GKGHSNAFQDRLGASQERHLGEPHGKGVVSNKEHKSSHKDKRPVDAKSDEKASVVSREKSHKALSKEEN
RRPPSGDNAREKPPSSGVKKEKDREGSSLLKKCLPPSEAAASDNHLKKPKHRDPEKAKLDKSKQGLDSFDT
GKGAGDLLPKVKEKGSNNLKTPEGKVKTNLDRKSLGSLPKVEETDMEDEFEQPTMSFESYLSYDQPRKKK
KKIVKTSATALGDKGLKKNDSKSTGKNLDSVQKLPKVNKTKSEKPAGADLAKLRKVPDVLVLPDLPLPA
IQANYRPLPSLELISSFPKRKAFSSPQEEEEAGFTGRRMNSKMVYSGSKCAYLPKMMTLHQQCIRVLK
NNIDSI FEVGGVPYSVLEPVLERCTPDQLYRIEEYNHVLIEETDQLWKVHCHRFKEERPEEYESWREMY
LRLQDAREQLRVLTKNIQFAHANKPKGRQAKMAFVNSVAKPPRDVRRRQEKFGTGGAAVPEKIKIKPAP
YPMGSSHASASSISFNPSPEEPAYDGPSTSSAHLAPVVSSTVSYDPRKPTVKKIAPMMAKTIKAFKNRFS
RR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6691_d06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_003198

ORF Size: 2316 bp

OTI Disclaimer: 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:

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_003198.1](#), [NP_003189.1](#)

RefSeq Size: 4959 bp

RefSeq ORF: 2319 bp

Locus ID: 6924

UniProt ID: [Q14241](#)

Cytogenetics: 1p36.11

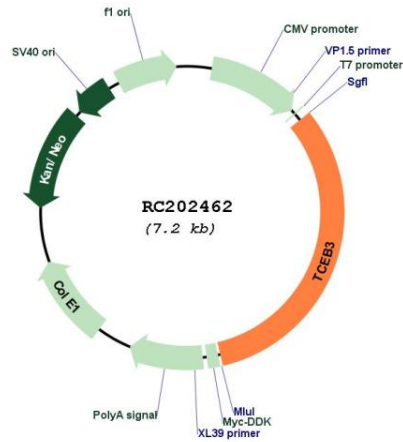
Domains: TFS2N

Protein Families: Transcription Factors

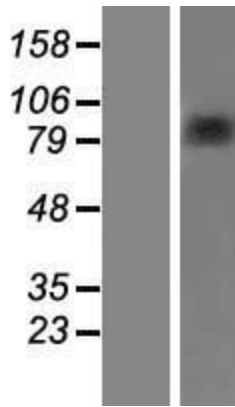
MW: 87.2 kDa

Gene Summary: This gene encodes the protein elongin A, 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202462



Western blot validation of overexpression lysate (Cat# [LY418839]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202462 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).