

Product datasheet for **SC113690**

ELAC2 (NM_018127) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELAC2 (NM_018127) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELAC2
Synonyms:	COXPD17; ELC2; HPC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113690 sequence for NM_018127 edited (data generated by NextGen Sequencing)

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ATGTGGGCGCTTTGCTCGCTGCTGCGGTCCGCGGCCGGACGCACCATGTGCGAGGGACGC
ACCATATCGCAGGCACCCGCCGCCGCGAGCGGCCGCGCAAGGACCCGCTGCGGCACCTG
CGCACGCGAGAGAAGCGCGGACCGTCCGGGTGCTCCGGCGGCCAAACACCGTGTACCTG
CAGGTGGTGGCAGCGGGTAGCCGGGACTCGGGCCCGCGCTCTACGTCTTCTCCGAGTTC
AACCGGTATCTCTTCAACTGTGGAGAAGCGTTTACAGAGACTCATGCAGGAGCACAAAGTTA
AAGGTTGCTCGCCTGGACAACATATTCTGACACGAATGCACTGGTCTAATGTTGGGGGC
TTAAGTGAATGATTCTTACTTTAAAGGAAACCGGCTTCCAAAGTGTGTACTTTCTGGA
CCTCCACAACCTGGAAAAATACCTCGAAGCAATCAAAATATTTTCTGGTCCATTGAAAGGA
ATAGAAGTGGCTGTGCGGCCCACTCTGCCCCAGAATACGAGGATGAAACCATGACAGTT
TACCAGATCCCCATACACAGTGAACAGAGGAGGGGAAAGCACCAACCATGGCAGAGTCCA
GAAAGGCCTCTCAGCAGGCTCAGTCCAGAGCGATCTTCAGACTCCGAGTCAATGAAAAT
GAGCCACACCTTCCACATGGTGTAGCCAGAGAAGAGGGGTGAGGACTCTTCCCTGGTC
GTAGCTTTCATCTGTAAGCTTCACTTAAAGAGAGGAACTTCTTGGTGTCAAAGCAAAG
GAGATGGGCCTCCAGTTGGGACAGCTGCCATCGCTCCCATCATTGCTGTGTCGAAGGAC
GGGAAAAGCATCACTCATGAAGGAAGAGAGATTTTGGCTGAAGAGCTGTGTACTCTCCA
GATCCTGGTGTGCTTTTGTGGTGGTAGAATGTCCAGATGAAAGCTTCAATCAACCCATC
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CGCAGCCACAAGATTCAAACCCAGCTCAACCTCATCCACCCGGACATCTCCCCCTGCTC
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CCAGAAATCATCTTCTTGAACAGGGTCTGCCATCCCGATGAAGATTGAAATGTCAGT
GCCACACTTGTCAACATAAGCCCCGACACGTCTCTGCTACTGGACTGTGGTGGAGGCACA
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GCTGTGTTTGTGTCACCTGCACGCAGATCACCACACGGGCTTGCCAAGTATCTTGTG
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CCCAACCAGCTCAAAGCCTGGCTCCAGCAGTACCAACAACAGTGCAGGAGGTCCCTGCAC
CACATCAGTATGATTCTGCCAAATGCCTTCAAGGAAAGGGCTGAGATCTCCAGTCCCTGCA
GTGGAAAGATTGATCAGTTTCGCTGTTGCGAACATGTGATTTGGAAGAGTTTCAGACCTGT
CTGGTGGGCACTGCAAGCATGCGTTTGGCTGTGCGCTGGTGCACACCTCTGGCTGGAAA
GTGGTCTATTCCGGGGACACCATGCCCTGCGAGGCTCTGGTCCGGATGGGAAAGATGCC
ACCCTCCTGATACATGAAGCCACCCTGGAAGATGGTTTGAAGAGGAAGCAGTGGAAAAG
ACACACAGCACAACTCCAAGCCATCAGCGTGGGATGCGGATGAACCGGGAGTTTATT
ATGCTGAACCACTTCAAGCAGCGCTATGCCAAGTCCCCCTTTCAGCCCCAACTTCAGC
GAGAAAGTGGGAGTTGCCCTTGGACACATGAAGTCTGCTTTGGAGACTTTCACAACAATG
CCCAAGCTGATTCCTCCACTGAAAGCCCTGTTTGTGGGACATCGAGGAGATGGAGGAG
CGCAGGGAGAAGCGGGAGCTGCGGCAGGTGCGGGCGGCCCTCTGTCCAGGGAGCTGGCA
GGCGGCTGGAGGATGGGAGCCTCAGCAGAAGCGGGCCACACAGAGGAGCCACAGGCC
AAGAAGGTCAGAGCCAGTGA
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Clone variation with respect to NM_018127.6

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_018127 unedited TTCAAATATTTGTATACGAACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGGTGGTGC ACGGNGAAACGCGGGCGTAGGTGACCGGCGGCTTTCTCAGTTTTGGTGGAGACGGGCGCA TGTGGGCGCTTTGCTCGCTGCTGCGGTCCGGCCGGACGCACCATGTGCGAGGGACGCA CCATATCGCAGGCACCCGCCCGCGAGCGGCCGCGCAAGGACCCGCTGCGGCACCTGC GCACGCGAGAGAAGCGCGGACCGTCCGGGTGCTCCGGCGGCCAAACACCGTGTACCTGC AGGTGGTGGCAGCGGGTAGCCGGGACTCGGGCGCCGCTCTACGTCTTCTCCGAGTTCA ACCGGTATCTCTCAACTGTGGAGAAGCGTTTCAGAGACTCATGCAGGAGCACAAAGTTAA AGTTGCTCGCCTGGACAACATATTCCTGACACGAATGCACTGGTCTAATGTTGGGGCT TAAGTGAATGATTCTTACTTTAAAGAAAACGGGCTTCAAAGTGTGTACTTTCTGGAC CTCCACAACCTGAAAAATACCTCGAAGCAATCAAATATTTCTGGTCCATTGAAAGGAA TAGAAGTGGTGTGCGGCCCCACTCTGCCCAGAATACGAGGATGAAACCATGACAGTTT ACCAGATCCCCATACACAGTGAACAGAGAGGGGAAAGCACCAACCATGGCAGAGTCCAG AAAGGCCTCTCAGCAGGCTCAGTCCAGAGCGATTTTCAGACTCCGAGTGAATGAAAATG AGCCACACCTTCCACATGGTGTAGCCAGAGAAGAGGGGTCAGGNACTTTTCTGGTCCG TAGCTTTCATCTGAAGCTTCACTTAAAGAGAGGAACTTTCCTTGGTGTCAAGCANAGG AGATGGCCTNCCAGTTGGACAGCTGCCTCGCTCCAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_018127 unedited GTAATGTAGGCTTGCCTCCGAGGGCNCGAGAAAAAACTTTTTTTTTNTCCAATTGC AATTTTTTTCTTTATTGCAGCTGAAATCTTTTTCGTTAAGTCTCGGACACTTAAACCCA CTGATCCTGTTACTCTGCTTGCCTCCTGCTGCGCAGGGAATCATTTTGTGGATTACAGG AAAGGTGCCGACGTCTGTACCATGACTCCTTAACTCGGTTCTTGAATGAAATAGC TCATCTGCTTGGTCCGTGTGGCAGCCTCTGCCCCGACACTGCGCCAGGCACCAGCCCT AAGAGGCATCTATAGACTACCTGCCTTATGAGGGACCCCAAGCCTCGGCTCAGTACATA CCACCTATACTGAGCTGACTCCTGGGGACCGTCTTCAACTCCTACCACCCAGGAGG ACACACCCGGTTGCGCGCGTGGGGCCCAACACCCACACGTTTCTGAGCACAGGGTCCACA CATCTTACTGCACTCTGACCTTCTGCACTGTGGCTTCTCTGCGTGGCCCCGCTTCTGT TGAGGCTCACCATCCTACCCCGACTGCACTCTCCTGCACAGGAGGTCCCACCGTACC GTTCGCACCTCCCCCTATTCCCTGCCCTACCTTATCCCTTTTGGCCCCAACACACGGC TTTCACTGCGGGAATCACCTGCCATTGCTGCAAAGCCTCCAAGCACACCTTATGCGGT CAAACGCAACTTTCCTCTCTCGCTGCATTTGCCCCGAAAGGGGACCCCTGACATATCG CCTGACTGACCGGCTCCCCACTATGAACTCCGGGGTTTATCCTCATCCACACCTGATG ACTGGGCACGATTANGCTTGGCGCCATTACCCTGCTTTTCTCTCATCACCACCCCTCAGC GTGGCTTCTGCTCAACCGACGCGGACCTTTTACCATTGAAACAAAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_018127
Insert Size:	3070 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:	<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:	NM_018127.4 , NP_060597.3
RefSeq Size:	2997 bp
RefSeq ORF:	2481 bp
Locus ID:	60528
UniProt ID:	Q9BQ52
Cytogenetics:	17p12
Domains:	lactamase_B
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Gene Summary:	<p>The protein encoded by this gene has a C-terminal domain with tRNA 3' trailer processing endoribonuclease activity, which catalyzes the removal of the 3' trailer from precursor tRNAs. The protein also interacts with activated Smad family member 2 (Smad2) and its nuclear partner forkhead box H1 (also known as FAST-1), and reduced expression can suppress transforming growth factor-beta induced growth arrest. Mutations in this gene result in an increased risk of prostate cancer. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). 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.</p>