

## Product datasheet for **SC327216**

### ELAC2 (NM\_001165962) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ELAC2 (NM_001165962) Human Untagged Clone
Tag:	Tag Free
Symbol:	ELAC2
Synonyms:	COXPD17; ELC2; HPC2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001165962, the custom clone sequence may differ by one or more nucleotides

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ATGTGGGCGCTTTGCTCGCTGCTGCGGTCCGCGGCCGGACGCACCATGTGCGAGGGACGC
ACCATATCGCAGGCACCCGCCCGCCGAGCGGCCGCAAGGACCCGCTGCGGCACCTG
CGCACGCGAGAGAAGCGCGGACCGTCCGGGTGCTCCGGCGGCCAAACACCGTGTACCTG
CAGGTGGTGGCAGCGGGTAGCCGGGACTCGGGCGCCGCGCTCTACGTCTTCTCCGAGTTC
AACCGGATCTCTTCAACTGTGGAGAAGCGTTTACAGAGACTCATGCAGGAGCACAAAGTTA
AAGGTTGCTCGCCTGGACAACATATTCCCTGACACGAATGCACTGGTCTAATGTTGGGGGC
TTAAGTGAATGATTCTTACTTTAAAGGAAACCGGCTTCCAAAGTGTGTACTTTCTGGA
CCTCCACAACGGAAAAATACCTCGAAGCAATCAAAATATTTTCTGGTCCATTGAAAGGA
ATAGAAGTGGCTGTGCGGCCCACTCTGCCCCAGAATACGAGGATGAAACCATGACAGTT
TACCAGATCCCCATACACAGTGTAGCCAGAGAAGAGGGGTGAGGGACTTTCCCTGGTC
GTAGCTTTCATCTGTAAGCTTCACTTAAAGAGAGGAACTTCTTGGTGTCAAAGCAAAG
GAGATGGGCTCCAGTTGGGACAGCTGCCATCGCTCCCATCATTGCTGTGTCAAAGGAC
GGGAAAAGCATCACTCATGAAGGAAGAGAGATTTGGCTGAAGAGCTGTGTAAGTCTCCA
GATCCTGGTGTGCTTTTGTGGTGGTAGAATGTCCAGATGAAAGCTTCAATCAACCCATC
TGTGAGAATGCCACCTTTCAGAGGTACCAAGGAAAGGCAGATGCCCCCGTGGCCTTGGTG
GTTACATGGCCCCAGCATCTGTGCTTGTGGACAGCAGGTACCAGCAGTGGATGGAGAGG
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CGCAGCCACAAGATTCAAACCCAGCTCAACCTCATCCACCCGGACATCTTCCCTTGCTC
ACCAGTTTCCGCTGTAAGAAGGAGGGGCCACCCTCAGTGTGCCATGGTTCAGGGTGAA
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CAGGAGTACAGGAGGAGTGCAGCAGGACGCGCCAGCCCGCAGCAGAAAAGAAAGTCAATAC
CCAGAAATCATCTTCTTGAACAGGGTCTGCCATCCCGATGAAGATTGAAATGTCAGT
GCCACACTTGTCAACATAAGCCCGACACGTCTCTGCTACTGGACTGTGGTGAGGGCACA
TTTGGGACAGTGTGCCGTATTACGGAGACCAGGTGGACAGGGTCTGGGCACCTGGCT
GCTGTGTTTGTGTCACCTGCACGCAGATCACCACACGGGCTTGCCAAGTATCTTGTG
CAGAGAGAACGCGCTTGGCATCTTTGGGAAAGCCGCTTACCCTTTGCTGGTGGTTGCC
CCCAACCAGCTCAAAGCCTGGCTCCAGCAGTACCACAACCAGTGCAGGAGGTCTGCAC
CACATCAGTATGATTCTGCCAAATGCCTTCAGGAAGGGGCTGAGATCTCCAGTCTGCA
GTGGAAAGATTGATCAGTTCGCTGTTGCGAACATGTGATTTGGAAGAGTTTCAGACCTGT
CTGGTGGGCACTGCAAGCATGCGTTTGGCTGTGCGCTGGTGCACACCTTGGCTGGAAA
GTGGTCTATTCCGGGGACACCATGCCCTGCGAGGCTCTGGTCCGGATGGGGAAAGATGCC
ACCCTCTGATACATGAAGCCACCCTGGAAGATGGTTTGGAAAGGAAGCAGTGGAAAAG
ACACACAGCACAAAGTCCCAAGCCATCAGCGTGGGGATGCGGATGAACGCGGAGTTCATT
ATGCTGAACCACTTACGCCAGCGCTATGCCAAGTCCCTTTCAGCCCCAACTTACAGC
GAGAAAAGTGGGAGTTGCCTTTGACCACATGAAGGTCTGCTTTGGAGACTTTCAACAATG
CCCAAGCTGATTCCTCCACTGAAAGCCCTGTTTGTGCTGGCGACATCGAGGAGATGGAGGAG
CGCAGGGAGAAGCGGGAGCTGCGGCAGGTGCGGGCGGCCCTCCTGTCCAGGGAGCTGGCA
GGCGGCTGGAGGATGGGGAGCCTCAGCAGAAGCGGGCCACACAGAGGACCCACAGGCC
AAGAAGTTCAGAGCCAG
    
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**Restriction Sites:** Please inquire

**ACCN:** NM\_001165962

**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).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001165962.1</a> , <a href="#">NP_001159434.1</a>
<b>RefSeq Size:</b>	3694 bp
<b>RefSeq ORF:</b>	2361 bp
<b>Locus ID:</b>	60528
<b>UniProt ID:</b>	<a href="#">Q9BQ52</a>
<b>Cytogenetics:</b>	17p12
<b>Protein Families:</b>	Druggable Genome, Stem cell - Pluripotency
<b>Gene Summary:</b>	<p>The protein encoded by this gene has a C-terminal domain with tRNA 3' 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 (3) lacks an alternate in-frame exon in the central coding region, compared to variant 1. The resulting isoform (3) lacks an internal segment, compared to 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>