

Product datasheet for **RC229023**

ELAC2 (NM_173717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELAC2 (NM_173717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELAC2
Synonyms:	COXPD17; ELC2; HPC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC229023 representing NM_173717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGTGGGCGCTTTGCTCGCTGCTGCGGTCCGCGGCCGGACGCACCATGTGCGAGGACGCACCATATCGC
 AGGCACCCGCCCGCGAGCGGCCGCAAGGACCCGCTGCGGCACCTGCGCACGAGAGAAGCGCGG
 ACCGTCGGGGTGCTCCGGCGGCCAAACACCGGTACCTGCAGGTGGTGGCAGCGGGTAGCCGGGACTCG
 GGCGCCGCGCTCTACGTCTTCTCCGAGTTCAACCGGTATCTCTTCAACTGTGGAGAAGCGTTTCAGAGAC
 TCATGCAGGAGCACAAGTTAAAGTTGCTCGCTGGACAACATATTCTGACACGAATGCACTGGTCTAA
 TGTTGGGGCTTAAAGTGAATGATTCTTACTTTAAAGGAAACCGGGCTTCCAAAGTGTGACTTTCTGGA
 CCTCCACAACCTGAAAAATACCTCGAAGCAATCAAAATATTTCTGGTCCATTGAAAGGAATAGAAGTGG
 CTGTGCGGCCCACTCTGCCCGAGAATACGAGGATGAAACCATGACAGTTTACCAGATCCCATAACACAG
 TGAACAGAGGAGGGGAAAGCACCACCATGGCAGAGTCCAGAAAGGCCTCTCAGCAGGCTCAGTCCAGAG
 CGATCTTCAGACTCCGAGTCGAATGAAAATGAGCCACACCTTCCACATGGTGTTAGCCAGAGAAGAGGGG
 TCAGGGACTCTTCCCTGGTCGTAGCTTTTCATCTGTAAGCTTCACTTAAAGAGAGGAACTTCTTGGTGCT
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 GGGAAAAGCATCACTCATGAAGGAAGAGAGATTTTGGCTGAAGAGCTGTGTACTCTCCAGATCCTGGTG
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 GTGCCCTCAGTTCAACAACCTTCGAGGCCACAAGATTCAAACCCAGCTCAACCTCATCCACCCGACATCTT
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 CTCCTCAAGTACCAGCTCCGTCCAGGAGGGAGTGGCAGAGGGATGCCATTATTACTTGAATCCTGAGG
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 GGACGGCCAGCCCCAGCAGAGAAAAGAAGTCACTACCCAGAAATCATCTTCTTGAACAGGGTCTGCC
 ATCCCGATGAAGATTCGAAATGTCAAGTCCACACTTGTCAACATAAGCCCCGACAGCTCTCTGCTACTGG
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 CCTGGCTGCTGTGTTGTGTCACCTGCACGCAGATCACCACACGGGCTTGCCAAGTATCTTGCTGCAG
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 TGTGATTTGGAAGAGTTTCAGACCTGTCTGGTGGGCACTGCAAGCATGCGTTTGGCTGTGCGCTGGTGC
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 TGTCCAGGAGCTGGCAGGCGGCTGGAGGATGGGGAGCCTCAGCAGAAGCGGGCCACACAGAGGAGCC
 ACAGGCCAAGAAGGTCAGAGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229023 representing NM_173717
 Red=Cloning site Green=Tags(s)

MWALCSLLRSAAGRTMSQGRTISQAPARRERPRKDPLRHLRTREKRGPSGCSGGPNTVYLQVVAAGSRDS
 GAALYVFSEFNRYLFNCGEGVQRLMQEHKLKVARLDNIFLTRMHWSNVGGLSGMILTLKETGLPKCVLSG
 PPQLEKYLEAIKIFSGPLKGIELAVRPHSAPEYEDETMVYQIPIHSEQRRGKHQWPQSPERPLSRLSPE
 RSSDSESNENEPHLPHGVSQRRGVRDSSLVVAFICKLHLKRGNFVLKAKEMGLPVGTAAPIIAAVKD
 GKSITHEGREILAEELCTPPDGAAFVVVECPDESFIQPICENATFQRYQKADAPVALVVHMAPASVLV
 DSRVQQWMERFGPDTQHLVLNENCASVHNLRSKIQTLNLIHPDIFPLLTFRCKEGPTLSVPMVQGE
 LLKYQLRPRREWQRDAIITCNPEEFIVEALQLPNFQQSVQYRRSAQDGPAPAEKRSQYPEIIFLGTGSA
 IPMKIRNVSATLVNISPDTSLLLDCEGEGTFGQLCRHYGDQVDRVLGTLAAVFVSHLHADHTGLPSILLQ
 RERALASLGKPLHPLL VVAPNQLKAWLQQYHNQCQEVLLHHISMIPAKCLQEGAEISSPAVERLISSLLRT
 CDLEEFQTCLVRHCKHAFGCALVHTSGWKVVYSGDTMPCEALVRMGKDATLLIHEATLEDGLEEEAVEKT
 HSTTSQAISVGMRMNAEFIMLNHFQRYAKVPLFSPNFSEKVGVAFDHMKVCFGDFPTMPKLIPLKALF
 AGDIEEMEERREKRELQVRAALLSRELAGGLEGEPPQKRAHTEEPQAKKVRAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

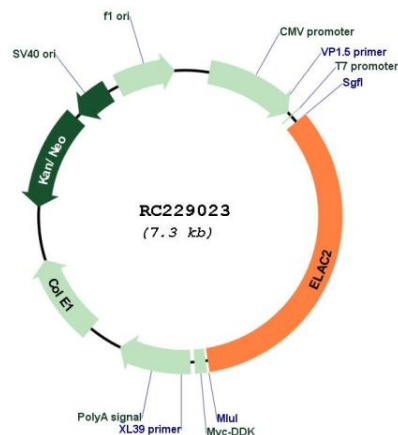
Cloning Scheme:



ACCN:	NM_173717
ORF Size:	2475 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173717.1, NP_776065.1</u>
RefSeq Size:	3811 bp
RefSeq ORF:	2478 bp
Locus ID:	60528
UniProt ID:	<u>Q9BQ52</u>
Cytogenetics:	17p12
Protein Families:	Druggable Genome, Stem cell - Pluripotency
MW:	92.1 kDa
Gene Summary:	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]

Product images:



Circular map for RC229023