

Product datasheet for **RG229023**

ELAC2 (NM_173717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELAC2 (NM_173717) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELAC2
Synonyms:	COXPD17; ELC2; HPC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG229023 representing NM_173717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGCGCTTTGCTCGCTGCTGCGGTCCGCGCGCCGACGCACCATGTGCGAGGGACGCACCATATCGC
 AGGCACCCGCCCGCCGAGCGGCCGCGCAAGGACCCGCTGCGGCACCTGCGCACGCGAGAGAAGCGCGG
 ACCGTCGGGGTGCTCCGGCGGCCAAACACCGGTACCTGCAGGTGGTGGCAGCGGGTAGCCGGGACTCG
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 TCATGCAGGAGCACAAGTTAAAGGTTGCTCGCTGGACAACATATTCCTGACACGAATGCACTGGTCTAA
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 CTGTGCGGCCCCACTCTGCCCGAATACGAGGATGAAACCATGACAGTTTACCAGATCCCATAACACAG
 TGAACAGAGGAGGGGAAAGCACCAACCATGGCAGAGTCCAGAAAGCCTCTCAGCAGGCTCAGTCCAGAG
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 TGGACTGTGGTGAAGGACGCTTTGGGACAGTGTGCCGTCATTACGGAGACCAGGTGGACAGGGTCTGGG
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 TGACCACATGAAGTCTGCTTTGGAGACTTTCCAACAATGCCAAAGCTGATTCCCCCTGAAAGCCCTG
 TTTGCTGGCGACATCGAGGAGATGGAGGAGCGCAGGGGAGAAGCGGGAGCTGCGGCAGGTGCGGGCGGCC
 TCTGTCCAGGGAGCTGGCAGGCGCTGGAGGATGGGGAGCCTCAGCAGAAGCGGGCCACACAGAGGA
 GCCACAGGCCAAGAAGTTCAGAGCCAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229023 representing NM_173717
 Red=Cloning site Green=Tags(s)

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MWALCSLLRSAAGRTMSQGRTISQAPARRERPRKDPLRHLRTREKRGPSGCSGGPNTVYLQVVAAGSRDS
GAALYVFSEFNRYLFNCGEGVQRLMQEHKLVARLDNIFLTRMHWSNVGGLSGMILTLKETGLPKCVLSG
PPQLEKYLEAIKIFSGPLKGIELAVRPHSAPEYEDETMVYQIPIHSEQRRGKHQPWQSPERPLSRLSPE
RSSDSELNENEPHLPHGVSQRRGVRDSSLVVAFICKLHLKRGNFVLKAKEMGLPVGTAAIPIIAAVKD
GKSITHEGREILAEELCTPPDGAFAFVVVECPDESFIQPICENATFQRYQKADAPVALVVHMAPASVLV
DSRYQQWMERFGPDTQHLVLNENCASVHNLRSHKIQTQLNLIHPDIFPLLT SFRCKKEGPTLSVPMVQGE
CLLKYQLRPREWQRDAIITCNPEEFIVEALQLPNFQQSVQEYRRSAQDGPAPAEKRSQYPEIIFLGTGS
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TCDLEEFQTCLVRHCKHAFGCALVHTSGWKVVYSGDTPCEALVRMGKDATLLIHEATLEDGLEEEEAVEK
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FAGDIEEMEERREKRELQVRAALLSRELAGLEDGEPQQKRAHTEEPQAKKVRAQ
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_173717.1](#), [NP_776065.1](#)

RefSeq Size: 3811 bp

RefSeq ORF: 2478 bp

Locus ID: 60528

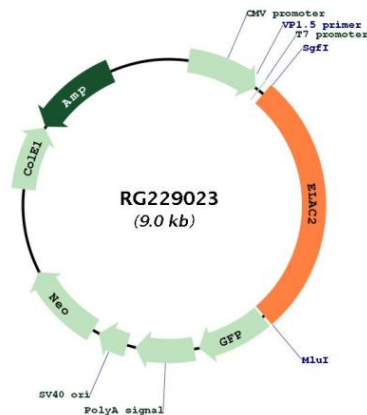
UniProt ID: [Q9BQ52](#)

Cytogenetics: 17p12

Protein Families: Druggable Genome, Stem cell - Pluripotency

Gene Summary: 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]

Product images:



Circular map for RG229023