

Product datasheet for **RC201388**

ELAC1 (NM_018696) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELAC1 (NM_018696) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELAC1
Synonyms:	D29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201388 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATGGATGTGACATTCTGGGGACGGGTGCAGCATACCCATCTCCAACCCGGGTGCCTCTGCTG
TGGTCCTTCGGTGTGAAGGCGAGTGCTGGCTCTTTGACTGTGGGGAGGGAACACAGACACAGCTTATGAA
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ATGGCCCTGTAGGGCTTCGGGACTTTATCTGGCGAACCATGGAATCTCTCACACGAGCTGGTCTTCCA
TTATGTGGTTCATGAACTGGTTCTACAGCAGATCAATGTCTGCAGAAGAACTAAAAGAATTTGCGCAT
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CATACCTTCTGTTTGATGATGAACAATTTGTTGTAAGCAATTTGCGCTCTTTCAGAAATTCCTCATT
TGGGTTTTTCAGTCGTGGAAAAGAAACGCCAGGTAAGTCAATGCACAGAACTTAAAGACCTTGGTGTT
CCACCAGTCTGCCTATGGGAAGCTGAAAAATGGAATTTCTGTTGTTCTGGAAAATGGGGTTACAATTT
CTCCCAAGATGTCTTAAAAAGCCTATTGTTGGAAGAAAAATCTGCATATTGGGTGACTGCTCTGGGT
TGTGGGTGATGGAGGAGTAAACTGTGCTTTGAAGCAGACCTGTTGATCCACGAAGCAACCCTGGATGAT
GCCCAGATGGACAAAGCAAAGGAGCATGGCCACAGCACACCACAGATGGCAGCAACATTTGCAAAGTTGT
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AGAAACAGATGGCATTGCAGAATAAAAAAGCAAGCTGAATCAGTGTTAGATCTCCAAGAAGTACTCTA
GCAGAAGATTTTATGGTGATAAGCATTCCAATCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201388 protein sequence
 Red=Cloning site Green=Tags(s)

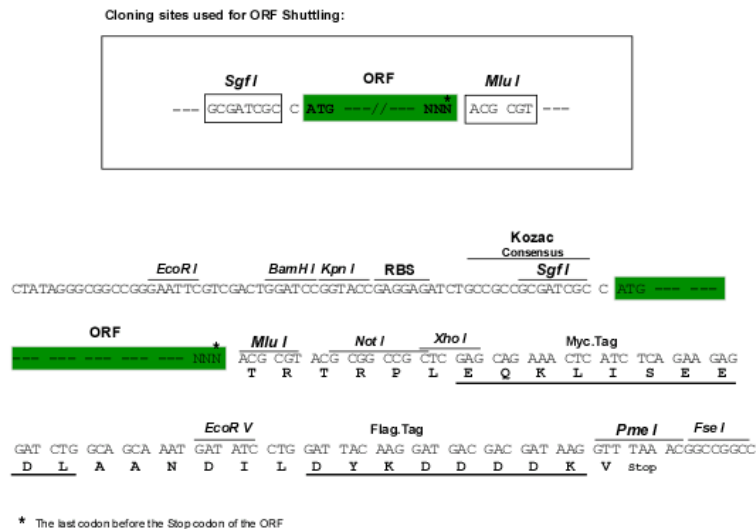
MSMDVTLGTGAAYPSPTRGASAVVLRCEGECWLFDCGEGTQTQLMKSQKAGRITKIFITHLHGDHFFG
 LPGLLCTISLQSGSMVSKQPIEIIYGPVGLRDFIWRMELSHTELVFHYVVHEL VPTADQCPAEELKEFAH
 VNRADSPPKKEEQGRTILLDSENSYLLFDDEQFVVKAFRLFHRIPSFGFSVVEKKRPGKLNQKLDLGV
 PPGPAYGKLKNGISVVLENGVTISPQDVLKKPIVGRKICILGDCSGVVGDGGVKLCFEADLLIHEATLDD
 AQMDKAKEHGHSTPQMAATFAKLCRAKRLVLTHTFSQRYKPVALAREGETDGI AELKKQAESVLDLQEVTL
 AEDFMVISIPIKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6052_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018696

ORF Size: 1089 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: [NM_018696.3](#)

RefSeq Size: 2233 bp

RefSeq ORF: 1092 bp

Locus ID: 55520

UniProt ID: [Q9H777](#)

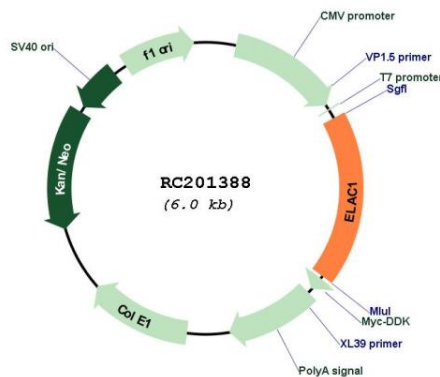
Cytogenetics: 18q21.2

Domains: lactamase_B

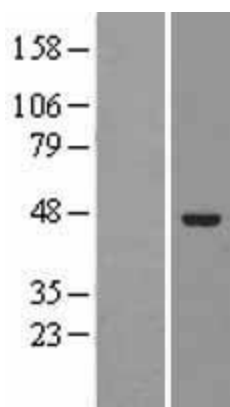
MW: 40 kDa

Gene Summary: Zinc phosphodiesterase, which displays some tRNA 3'-processing endonuclease activity. Probably involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA. [UniProtKB/Swiss-Prot Function]

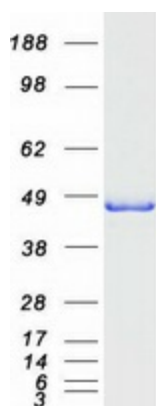
Product images:



Circular map for RC201388



Western blot validation of overexpression lysate (Cat# [LY402707]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201388 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ELAC1 protein (Cat# [TP301388]). The protein was produced from HEK293T cells transfected with ELAC1 cDNA clone (Cat# RC201388) using MegaTran 2.0 (Cat# [TT210002]).