

Product datasheet for **MR210864**

Elac2 (NM_023479) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elac2 (NM_023479) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elac2
Synonyms:	1110017O07Rik; D11Wsu80e; Hpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210864 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTGGGCGCTCCGCTCACTGTTGCGTCCCTTGGCTGCGCACCATGTCGACAGGTTTCGGCTCGTCCGG
CGCGGCATCAAAGACCCACTGCGACACTGCGTACGCGGAGAGAAGCGCGGCCCGGTCCCGGGGCC
GAACACCGTGTACCTGCAGGTGGTGGCGCGGGCGGCCGGGACGCGGGGCTGCTCTATGTCTTCTCG
GAATAACAAGGTACCTTTTAACTGCGGAGAAGGCGTCCAACGACTTATGCAGGAACACAACTGAAAG
TCGCTCGTTGGACAACATCTTCTGACTCGGATGCATTGGTCAAATGTTGGGGGTTGTGTGGAATGAT
TTTAACTTTAAAGGAAACCGGGTCCCAAATGTGTTCTGTCTGGACCACACAGCTGGAGAAATATCTA
GAAGCAATCAAAATATTTCTGGTCCATTGAAAGGAATAGAAGTGGCCGTGCGGCCTCACTCTGCACCG
AATACAAGGATGAGACCATGACTGTTTACCAGGTCCCTATCCACAGTGAACGGAGGTGTGAAAGCAACA
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CCTTAGTGGTAGCTTTTGTCTGCAAGCTTCACTTGAGGAAAGGAAACTTCTTGGTGTAAAGCAAGGA
GCTGGGCTTCTCTGTTGGGACGGCCGCCATTGCACCCATCATTGCTGCTGTCAAGGACGGGAAGAGTATC
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CAGCTTCTATAGTAAGGAGGAAGGGTCCACCCTCAGCGTGCCAACAGTTCGGGGTGAATGCCTCCTCAAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR210864 protein sequence

Red=Cloning site Green=Tags(s)

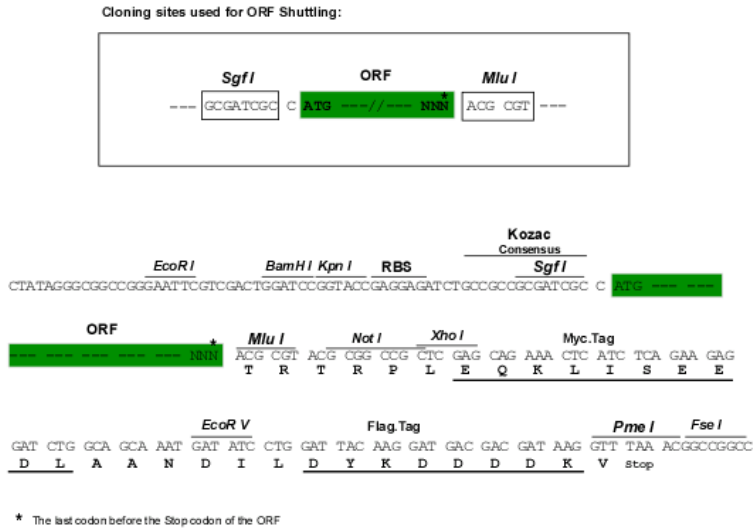
MWALRSLLRPLGLRTMSQGSARRPRPSKDPLRHLRTRKRGPGPGGPNVYLVQVVAAGGRDAGAALYVFS
EYNRYLFNCGEGVQRLMQEHKLVARLDNIFLTRMHWSNVGGLCGMILTLKETGLPKCVLSGPPQLEKYL
EAIKIFSGPLKGIELAVRPHSAPEYKDETMVYQVPIHSERRCGKQQPSQSPRTSPNRLSPKQSSDSGSA
ENGQCPEPSSAGANRKAWRDPSLVVAFVCKLHLRKGFLVLKAKELGLPVGTAAIPIIAAVKDGKSI
TYEGREIAAEELCTPPDPGLVFIIVVECPDEGFILPICENDTFKRYQAEADAPVALVVIAPESVLIDSR
QQWMERFGPDTQHLILNENPCSVHNLRSKIQTLSLIHPDIFPQLTSFYKKEEGSTLSVPTVRGECLLK
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KIRNVSSTLVNLSPDKSVLLDCGEGTFGQLCRHYGQQIDRVLCSLTAVFVSHLHADHHTGLLNILLQREH
ALASLGKPFQPLLVVAPTQLRAWLQQYHNHCQEILHHVSMIPAKCLQKGAEVSNTTLERLISLLETCDL
EEFQTCLVRHCKHAFGCALVHSSGWKVVYSGDTPCEALVQMGKDATLLIHEATLEDGLEEEAVEKTHST
TSQAINVGMRMNAEFIMLNHFSQRYAKIPLFSPDFNEKVGIAFDHMKVCFGDFPTVPKLIPPLKALFAGD
IEEMVERREKRELRLVRAALLTQQADSPEDREPQQKRAHTDEPHSPQSKKESVANTLGARV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



- ACCN: NM_023479
- ORF Size: 2496 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.

RefSeq: [NM_023479.3](#)

RefSeq Size: 2781 bp

RefSeq ORF: 2496 bp

Locus ID: 68626

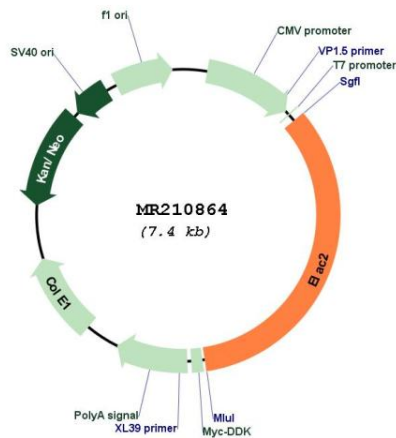
UniProt ID: [Q80Y81](#)

Cytogenetics: 11 40.42 cM

MW: 92.7 kDa

Gene Summary: Zinc phosphodiesterase, which displays mitochondrial tRNA 3'-processing endonuclease activity. Involved in tRNA maturation, by removing a 3'-trailer from precursor tRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210864