

Product datasheet for **MG210864**

Elac2 (NM_023479) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elac2 (NM_023479) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elac2
Synonyms:	1110017O07Rik; D11Wsu80e; Hpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG210864 representing NM_023479
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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GAGCAAGAAGGAGAGCGTGGCAAACACTTTAGGAGCGCGAGTG

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTAA

Protein Sequence: >MG210864 representing NM_023479
Red=Cloning site Green=Tags(s)

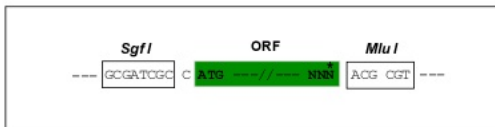
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



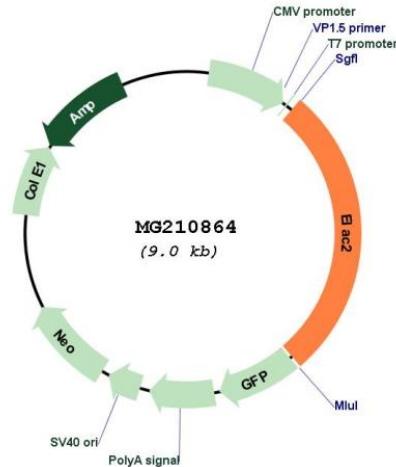
```

                                     Kozac
                                     Consensus
                                     SgfI   AscI
EcoRI   BamHI KpnI   RBS
CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII  NheI  RsrII  MluI      NotI  XhoI      GFP Tag
CAAGCTTAAGCTAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC --- --- ---
                                     T  R  T  R  P  L  E  M  E  S  D  -  -  -

                                     PmeI   FseI
--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop
    
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Plasmid Map:



ACCN: NM_023479

ORF Size: 2493 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: 2712 bp

RefSeq ORF: 2496 bp

Locus ID: 68626

UniProt ID: [Q80Y81](#)

Cytogenetics: 11 40.42 cM

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]