

Product datasheet for MR205553

Elac1 (NM_053255) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elac1 (NM_053255) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elac1
Synonyms:	2610018O07Rik; 8430417G19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205553 representing NM_053255 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTATGGATGTGACCTTTCTTGGGACAGGAGCAGCATATCCATCACCGACCCGTGGCGCCTCTGCGG
TGGTTCTTCGGTTCGAGGGCGAGTGCTGGCTCTTTGACTGTGGGGAGGGAACACAGACCCAGCTTATGAA
AAGCCAGCTTAAAGCAGGGAGAATTACCAAGATCTTCATCACACATCTCCATGGCGACCCTTCTTTGGC
CTTCCAGGCTCCTGTACCATCAGCCTGCAGAGTGGCTCTGTGGTCCGAGGCAGCCTATTGAGATCT
ACGGCCCCGTTCGGGCTTCGGGACTTTATCTGGAGAACCATGGAGCTCTCTCACACGGAGTTGGTGTTC
TTACGTGGTTCACGAGCTAGTTCCTACAGCTGACCAGTGTCTGTAGAAGAACTGAGAGAATTTGCACAC
ATGGATGAAACAGACAGCTCTCCCAAAGGACAAGGACGAATCTTTGCTAGATGAGAAGAAAACATCAT
ACTGTCTGGTTGATGACGAGCAGTTTGTGGTAAAAGCATTTTCGCCTCTTTATAGAAATCCATCCTTTGG
CTTTTCAGTTGTGGAAAAGAAGCGTGCAGGTAACTCAACGCACAGAAGCTGAGAGATCTCGGTGTGCCA
CCAGGTCTGCCTATGGGAAGCTGAAAACGGAATTTCTGTTGTTTTGGATAATGGAGTTACAATTTCTC
CCCAAGACGTCTAAAAAAGCCTATGGTTGGAAGAAAAGTTTGCATCCTGGGTGACTGTTCTGGGGTTGT
GGGTGACGGGGCGTGAAGCTGTGCTTTGAGGCCGACCTGCTGATCCACGAGGCCACTCTGGATGATTCC
CAGATGGACAAAGCGAGAGACACGGCCACAGCACGCCGAGATGGCAGCGCGTTTGAAGCTGTGCC
GTGCCAAGAGGCTAGTTCTGACCCACTTCAGTCAGAGGTACAAACCAACCGCCTTGGCGAGAGAAGGGGA
GGCAGACGGCATCGCAGAGCTGAGGAAGCAAGCAGAGGCCGTGTTAGAGCTCCAAGAAGTACTCTAGCA
GAAGATTTTATGGTGATCGGCATTCCGATCAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205553 representing NM_053255
Red=Cloning site Green=Tags(s)

MSMDVTLGTGAAYSPTRGASAVVLRCEGECWLFDCGEGTQTQLMKSQKAGRITKIFITHLHGDHFFG
 LPGLLCTISLQSGSVVARQPIE IYGPVGLRDFIWRMELSHTEL VFPYVVHEL VPTADQCPVEELREFAH
 MDETSSPKGQGRTILLDAEENSYCLVDDEQFVVKAFRLFHRIPSFSGFSVVEKKRAGKLNQKLRDLGVP
 PGPAYGKLNKGISVVL DNGVTISPQDVLKPKMVGRKVCILGDSCGVVGDGGVKLCFEADLLIHEATLDDS
 QMDKAREHGHSTPQMAAAF AKLCRAKRLVLTHFSQRYKPTALAREGEADGIAELRKQAEAVLELQEVTLA
 EDFMVIPIPIKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9063_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_053255

ORF Size: 1086 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_053255.3](#), [NP_444485.2](#)

RefSeq Size: 4971 bp

RefSeq ORF: 1089 bp

Locus ID: 114615

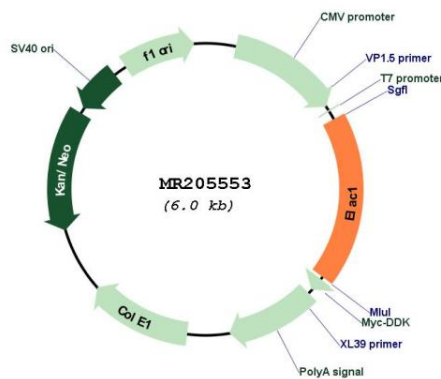
UniProt ID: [Q8VEB6](#)

Cytogenetics: 18 E2

MW: 39.7 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205553