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Product datasheet for MR227515

Eln (NM_007925) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eln (NM_007925) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eln
Synonyms:	AI385707; AI480567; E030024M20Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR227515 representing NM_007925
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGTCTGACAGCGGTAGTCCCGCAGCCTGGCGTCTTGCTGATCCTCTTGCTCAACCTCCTCCATC
CCGCGCAGCCTGGAGGGGTTCCAGGAGCTGTGCCTGGCGGACTTCCTGGTGGAGTTCCCGGTGGAGTCTA
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GGTGTTGGCGTTGGTGGAGTTCCAGGTGGTGTTGGAGTTGGCGGAGTCCCAGGTGGTGTTGGAGTTGGTG
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GTGTCCTAGGAGCCAGGCCATTCCCAGGTGGAGGAGTTGCAGCAAGACCTGGCTTTGGACTTTCTCCCAT
TTATCCAGGTGGTGGTGCTGGGGGCCTGGGAGTTGGTGGAAAACCCCCGAAGCCCTATGGAGGAGCCCTT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR227515 representing NM_007925
Red=Cloning site Green=Tags(s)

MAGLTAVVPQPGVLLILLLNLLHPAQPGGVPGAVPGGLPGGVPGGVYYPGAGIGGLGGGGGALGPGGKPP
KPGAGLLGTFGAGPGGLGGAGPGAGLGAFPAGTFPGAGALVPGGAAGAAAAYKAAAKAGAGLGGVGGVPG
GVGVGGVPGGVGVGGVPGGVGVGGVPGGVGGIGGIGGLGVSTGAVVPQVGAGIGAGGKPGKVPGVGLPGV
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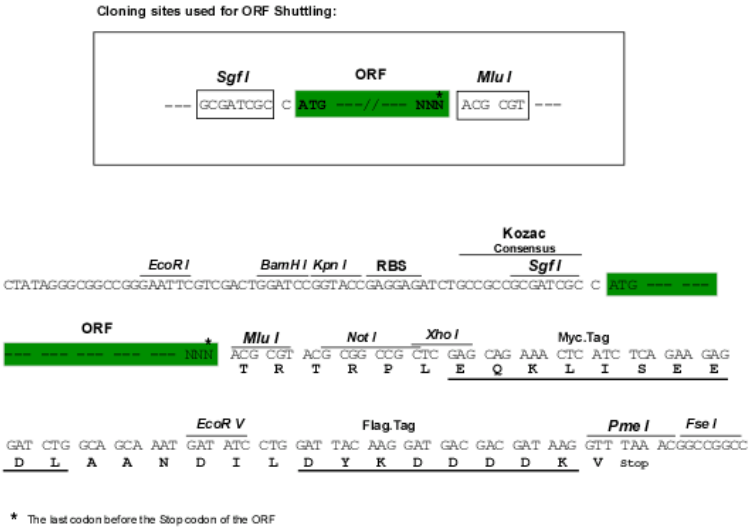
GALGYQGGGCFGKSCGRKRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9008_e09.zip

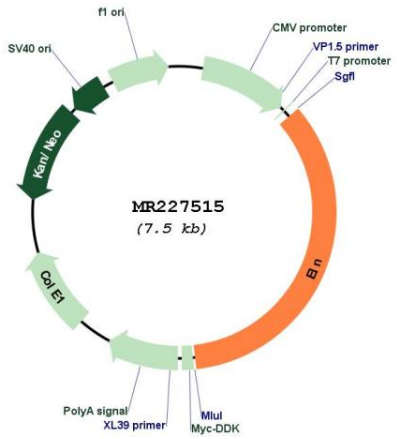
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_007925
ORF Size:	2580 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_007925.1, NM_007925.2, NM_007925.3, NM_007925.4, NP_031951.2
RefSeq Size:	3781 bp
RefSeq ORF:	2583 bp
Locus ID:	13717
UniProt ID:	P54320
Cytogenetics:	5 74.76 cM
MW:	72.4 kDa
Gene Summary:	This gene encodes elastin, the extracellular matrix protein that forms a major structural component of several tissues including lungs and arterial walls. Cleavage of the signal peptide from the encoded precursor generates soluble tropoelastin which undergoes lysine-derived crosslinking to form elastin polymers. Mice lacking the encoded protein exhibit defective lung development, and die of an obstructive arterial disease resulting from subendothelial cell proliferation and reorganization of smooth muscle. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR227515