

Product datasheet for **MG226046**

Elane (NM_015779) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Elane (NM_015779) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Elane
Synonyms: El; Ela2; F430011M15Rik; N; NE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG226046 representing NM_015779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCTTGGCAGACTATCCAGCCGGACTCTGGCTGCCATGCTACTGGCATTGTTCTGGGTGGCCAG
 CACTGGCCTCAGAGATTGTTGGTGGCCGGCCGGCCCGCCCATGCTTGGCCCTCATGGCATCCCTGCA
 GAGGCGTGGAGGTCATTTCTGTGGTGCCACCCTCATTGCCAGGAACCTCGTCATGTCAGCAGCCACTGT
 GTGAACGGCCTAAATTTCCGGTCAGTGCAGGTAGTCTGGGAGCCCATGACCTGCGGCGACAGGAGCGCA
 CTCGACAGACCTTCTCTGTGCAGCGGATCTTCGAGAATGGCTTTGACCCATCACAACCTGCTGAACGACAT
 TGTGATTATCCAGCTCAATGGCTCCGCTACCATTAAACGCCAACGTGCAGGTGGCCAGCTGCCTGCCAG
 GGCCAGGGCGTGGGTGACAGAACTCCATGTCTGGCCATGGGCTGGGCGAGGTTGGGCACAAACAGACCAT
 CACCCAGTGTGCTACAAGAGCTCAATGTGACAGTGGTACTAACATGTGCCCGCGTCGTGTGAACGTATG
 CACTCTGGTGCCACGTCCGCAGGCAGGCATCTGCTTCGGGGACTCTGGCGGACCCCTGGTCTGTAACAAC
 CTTGTCCAAGGCATTGACTCCTTCATCCGAGGAGGCTGTGGATCTGGATTGTACCCAGATGCCTTCGCC
 CTGTGGCTGAGTTGCAGATTGGATCAATTCCATTATCCGAAGCCATAATGACCACCTTCTTACCCATCC
 CAAAGACCGAGAGGGCAGGACCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG226046 representing NM_015779
 Red=Cloning site Green=Tags(s)

MALGRLSSRTLAAMLLALFLGGPALASEIVGGRPARPHAWPFMASLQRRGGHFCGATLIARNFVMSAAHC
 VNLNFRSVQVVLGAHDLRRQERTRQTFVQRIFFENGFDPSQLLNDIVIIQLNGSATINANVQVAQLPAQ
 GQGVGDRTPCLAMGWRLGTNRPSVSVLQELNVTVVTNMCRRRVNVCTLVPRRQAGICFGDSSGGPLVCNN
 LVQGIDSFIRGGCGSGLYPDAFAPVAEFADWINSIIRSHNDHLLTHPKDREGRTN

TRTRPLE - GFP Tag - V

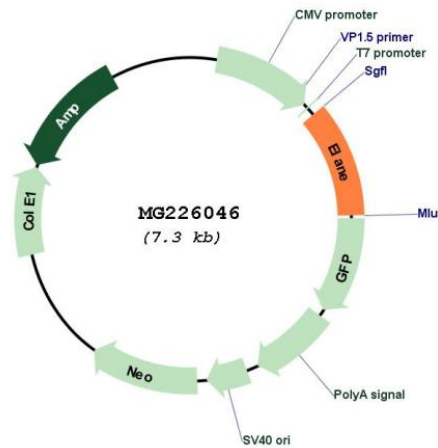
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_015779

ORF Size: 795 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:	<ol style="list-style-type: none">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_015779.2 , NP_056594.2
RefSeq Size:	920 bp
RefSeq ORF:	798 bp
Locus ID:	50701
UniProt ID:	Q3UP87
Cytogenetics:	10 39.72 cM
Gene Summary:	This gene encodes a member of the chymotrypsin-like family of serine protease enzymes that hydrolyzes a broad range of protein substrates including elastin. This gene is expressed by neutrophils where the encoded enzyme is stored in azurophil granules. Upon neutrophil activation, the active enzyme is released into the extracellular milieu. Mice lacking the encoded protein exhibit increased susceptibility to sepsis and death following intraperitoneal infection with Gram negative bacteria. This gene is located adjacent to a related proteinase gene on chromosome 10. [provided by RefSeq, Jul 2016]