

Product datasheet for **MR210272**

Elmo3 (NM_172760) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Elmo3
Synonyms:	9930107J06; BC058752; CED-12; Ced12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR210272 representing NM_172760
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCGCCCCCGCGGAATGTGGTGAAGATGTGCTGTTCAGATGTTGACGACCATCCCAAGCTTATCCGAG
TAGACCAGGCCAAAGCCCTGGCCACTGTACTGAAGGAGGTGTGTGACGCGTGAGACCTGACTCATCCGGA
GCACTATGCCCTGCAGTTTGTGTATGGGCACAGGAAATACATCACAGAGAATAACCGCTTGGAGATCAAG
AATGGAAGCATCCTGTGTCTACGACTGCCCCAGATCTGAAGGCCACGACGCTACTGGGTAGACTGCAGA
ATACAAGTCGTGAAGGGTGCTGTGAAGTCCTGAGAAAACCTGGTCCTGCTGGCCTCAGACATGACCTTTGC
CCAGGAGGTCATCAGTCGTGATGGGCTTCAGAACTAAGCACCATCATTGAAAATGGGGATGACCTAGGG
GAGATGCTGGCCCTTGGTCTAAGGGCTTTCTTGGAGCTCATGGAACACCGGTGTAGTGTCTCGGAGACAC
TCAGACTATCCTTTGTGAGGAAGTGATATCTTATGTGAACATGAACCTGATGGATGCCTCTGTCGACCC
CCTGGCTCTGAGACTGCTGGAGAGTGTGACCTTGAGCAGTCTGCCCTGGCGAGCTGGTGAAGAGTGAG
GTGCCACTGGATAGGCTGCTGGTGACCTGCAAGTAATGAACCACGAGCTGCAAAACCAAGGCCATGGCTC
TGTTGACGGCCCTGCTGCAGGGAGCCAGCCCCACTGAACGCAAGGAAATGCTTGACCACCTATGGAAGAA
GAATCTTCGCCAGTTCATCTACAAGAACATCATCCACAGTGCAACACCCATGGGTGACGAGATGGCTCAT
CACTTGATGTGTGCTGCAGGCTCTTACCCTAGGGCTGCTGGAGCCACGGATGCGGACACCACTTGATCCCT
ACAGCCAGGAACAGCGGGACGAGCTGCAGGCTCTGCGCCAGGCAGCCTTTGAACCAGAGGGGGAGTCCTT
GGGCACAGGGCTCAGTGACAGACCGCCGCCGGTCTCTCTGTGTCCGAGAGTTCGCAAGTTAGGCTTCTCT
AAGCAACACCCAGCCAGGACCTGGAGCTGTGCCCCCGGCTGCTGCCCTGGACAATATGCTCTACT
TCTCCAGACATGCACCAAGTGATACAGTCGGTTTGTGTGGAGAAGACTAGCCGAGAGGACAGCAAGCATGA
ATGCCCTTTTGCCCGGAGCAGCATCCAGCTGACAGCGTTGCTGTGTGAGCTGCTCCGTGTTGGGGAGCCT
TGCTCCGAGACAGCCAGGACTTCTCGCCATGTTCTTCAGCCAAGACCAGAGTTCCATGAGCTCTTCT
GTGTGGCTATCCAGCTACTGAATAAGACCTGGAAGGAGATGCGGGCAACACAGGAAGATTTTGACAAGGT
GATGCAAGTGTTTCGGGAGCAGCTGGCCCGTACCCTGGCTCTGAAGCCACCTCCCTGGAGCTTTTCGA
ACCAAAGTGAATGCCCTCACCTATGGGGAAGTGTGAGGCTGCGGCAGACAGAGCGGCTGCACCAGGAGG
GCACGCTGGCCCCCTCTATACTGGAATTGCGAGAGAACTGAAGCCAGAGCTCATGGGCTTAATCCGCCA
GCAGCGTTTGTCTCCGACTCTGTGAAGGAATGCTCTTCGCAAGATCAGCAGCCGAGACGACGACCAAG
CATGTGTTTGTGCTTTATCCCCCAACCAAGTACTGCAGTATGGGATGTGGAGGAGGGTGCCAAAGC
CCCCTACCTAGAAAGCCTACCTGAACAGCTCCCTGTGGCAGACATCAGGGACATCTCTAATGGGCAAGGA
CTGCCCCCATGTCCGGGAGAAGGGCTCTGGGAAGCAGAACAAGGACCTGTATGAGCTGGCTTTCTCCATC
AGCTATGACCACGGGGAGGAAGAAGCATACCTCAACTTCATTGCCCCCTCCAAACGGGATTTCTACCTGT
GGACAGACGGGCTAAGTGCCCTGCTGGGCAGTACCATGGGCAGTGAGCTGACTCGGCTAGACCTGGAGCA
GCTGCTCACTATGGAGACCAAGTTCGGGTTGTTGGAACCTGGAGAAGCTGCCCATTCCTGAGCAGCCTCCC
CCAGTACCCCCACCCCTACCAACTTTAACTTCTGCTATGACTACAGCATCACTGAGCCG

Protein Sequence:

>MR210272 representing NM_172760

Red=Cloning site Green=Tags(s)

MAPPRNVVKIAVQMSDAIPQLIQLDQAKPLATVLKEVCDASLTHPEHYALQFADGHRKYITENNRLEIK
NGSILCLSTAPDLKAQQLLGRNQTSREGCEVLRLNVLASDMTFAQEVISRDGLQKLSTIIENGDDL
EMLALGLRAFLMEHGVVSWETLSISFVRKVISYVNMNMDASVQPLALRLLESVTLSSPALGQLVKSE
VPLDRLLVHLQVMNHQLQTKAMALLTALLQGASPTERKEMLDHLWKNLRQFIYKNIHSATPMGDEMAH
HLYVLQALTLGLLEPRMRTPLDPYSQEQRDQLQALRQAFAFEPEGESLGTGLSADRRRSLCVREFRKL
NSNPAQDLERVPPGLLALDNMLYFSRHAPSAYSRSFVLENSSREDKHECFARSSIQLTALLCELLRVGEP
CSETAQDFSPMFFSQDHSFHELFCVAIQLLNKTWKEMRATQEDFDKVMQVVREQLARTLALKPTSLELFR
TKVNALTYGEVLRRLRQTERLHQEGLAPPIELREKLKPELMGLIRQRLRLCEGMLFRKISSRRRQDK
LWFCCLSPNHKVLQYGDVEEGAKPPTLESLEQLPVADIRALLMGKDCPHVREKGSQKQNKDLYELAFSI
SYDHGEEAYLNFIAPSKRDFYLWTDGLSALLGSTMGSELTRLDLEQLLTMETKLRLLELVNPIPEQPP
PVPPPTNFNFCYDYSITEP

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

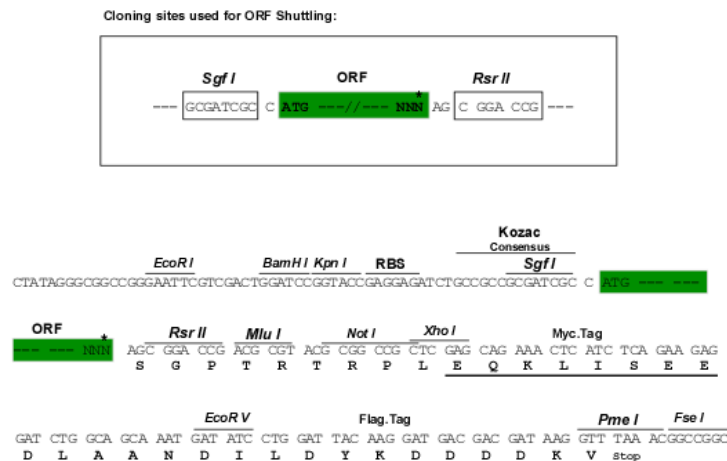
Chromatograms:

https://cdn.origene.com/chromatograms/mm9092_e04.zip

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN:

NM_172760

ORF Size:

2160 bp

OTI Disclaimer:

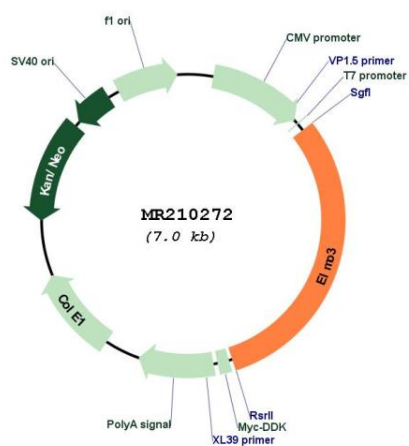
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_172760.3</u> , <u>NP_766348.3</u>
RefSeq Size:	3060 bp
RefSeq ORF:	2163 bp
Locus ID:	234683
UniProt ID:	<u>Q8BYZ7</u>
Cytogenetics:	8 D3
MW:	81.8 kDa
Gene Summary:	Involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. Acts in association with DOCK1 and CRK. Was initially proposed to be required in complex with DOCK1 to activate Rac Rho small GTPases. May enhance the guanine nucleotide exchange factor (GEF) activity of DOCK1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210272