

Product datasheet for **MR230970**

Elmo2 (NM_001302754) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_001302754) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230970 representing NM_001302754
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG
 AACGGGACAATCTTACAACCTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGAAAGGACCCAGT
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC
 CACGGAGTTCATTAACATGGACGGCATCATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG
 TCCCATGAGATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCTCCTGGG
 ACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGTGCCAT
 CCTCCAGCGGTCCCTGGCCATCCTAGAGAGCATGGTACTAACAGCCAGAGCCTGTACCAGAAGATAGCG
 GAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACCGAGAGATCCAGACCTACGCCA
 TTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCCGAAGACAAGAGACAGGACATGGCCAATGCCTTTGC
 ACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGGAATCGTCCAATCAAAACAGAGATG
 GCCCATCAGCTGTATGTCCTTCAGGTCTTGACCTTTAACCTTCTGGAAGAAAGAATGATGACCAAGATGG
 ATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACCTGAGGAGGATTGCCTTCGACGCAGAGTCTGA
 CCCCAGCAACGTCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAAATGCTG
 GGCTTCACCAACCATATCAACCCAGCCTTGACTTCACCCAGACTCCTCCTGGAATGCTGGCGCTGGACA
 GGACAAACACGAGTGTCCGTTCCGCCGAGTCCCATCGAGCTCACCAAGATGCTCTGTGAGATCCTGCAG
 GTCGGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCCATGTTCTTACCCACGACCGAGCCTTCG
 AGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGCCGAGGA
 TTTCAACAAGTTATGCAAGTTGTCGAGAGCAGATCACCCGGGCTCTGCCCTCTAAACCCAACCTTTTG
 GATCAGTTCAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATCTGCGGTTGCGCCAGTCTGAGAGGA
 TGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGATCCTGGA
 GCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCGGAAAATCGGGAACCGTCGT
 CGGCAAGAGAGGTTCTGGCACTGCCGCTTGGCACTGAACCACAAGTTTTGCATTACGGTGACTTGGATG
 ACAACCTCAAGGGGAGGTGACATTGCAATCCCTGCAGGAGAAAATTCCTGTTGCAGATTAAGGCCAT
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 GCATCTGGATTGATGGACTCAGCGCTCTCCTGGGGAAGGATATGTCCAGCGAGCTAACCAAGAGCGACT
 GGACACGCTGCTGAGCATGGAGATGAAGCTGCGGCTTCTGGACTTGGAGAACATTCAGATCCCCGAGGCG
 CCACCTCCGGTCCCCAAGGAGCCAGCAGCTATGACTTCGTCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230970 representing NM_001302754
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLVYVTEQTRNDIK
 NGTILQLAVSPSRAARQLMERTQSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL
 SHEMLAFTLTAFLELMDHGIVSWDMVSVTFIKQIAGYVSQPMVDVSILQRSLAILESMVLNSQSLYQKIA
 EEITVQGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAFQKHLRSIILNHVIRGNRPKTEM
 AHQLYVLQVLTFNLLERMMTKMDPNDAQORDIIFELRRIAFDAESDPSNVPGSGTEKRKAMYTKDYKML
 GFTNHINPALDFTQTPPGMLALDNMLYLAKVHQDTYIRIVLENSREDKHECPFGRSAIELTKMLCEILQ
 VGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPNSL
 DQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQLNRLCEGSSFRKIGNRR
 RQERFWHCRLALNHKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAIVTGKDCPHMKEKSALKQNKEVLE
 LAFSILYDPDETLNFIAPNKYEYCIWIDGLSALLGKDMSELTKSDLDTLLSMEMKLRLLDLENIQIPEA
 PPPVPKEPSSYDFVYHYG

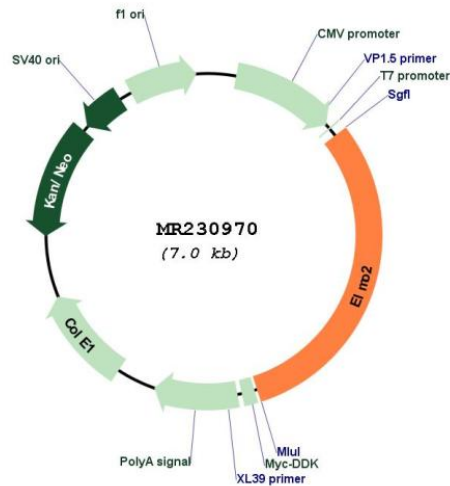
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001302754

ORF Size: 2154 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_001302754.1](#), [NP_001289683.1](#)

RefSeq Size: 4538 bp

RefSeq ORF: 2157 bp

Locus ID: 140579

UniProt ID: [Q8BHL5](#)

Cytogenetics: 2 H3

MW: 82.7 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]