

## Product datasheet for **MR230976**

### Elmo2 (NM\_001302752) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_001302752) 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:

>MR230976 representing NM\_001302752  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA  
TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA  
GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG  
AACGGGACAATCTTACAACCTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGAAAAGACCCAGT  
CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC  
CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG  
TCCCCTACAGTGAATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT  
CCTGGGACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGT  
GTCCATCTCCAGCGGTCCCTGGCCATCTAGAGAGCATGGTACTAACAGCCAGAGCCTGTACCAGAAG  
ATAGCGGAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACAGGAGATCCAGACCT  
ACGCCATTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACATGGCCAAATGC  
CTTTGCACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAAATCAAAACA  
GAGATGGCCATCAGCTGTATGCTCTCAGGTCTTGACCTTTAACCTTCTGGAAGAAAGAATGATGACCA  
AGATGGATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACTGAGGAGGATTGCCTTCGACGCAGA  
GTCTGACCCAGCAACGTCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAA  
ATGCTGGGCTTCCCAACCATATCAACCCAGCCTTGACTTCACCCAGACTCCTCCTGGAATGCTGGCGC  
TGGACAACATGCTGTACCTGGCTAAAGTCCACCAGGACACCTACATCCGGATCGTGGAGAAGCAGCAG  
TCGGGAGGACAAAACAGAGTGTCCGTTCCGGCCGAGTCCCATCGAGCTCACCAAGATGCTCTGTGAGATC  
CTGCAGGTCCGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCATGTTCTTACCACACGACCGAG  
CCTTCGAGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGC  
CGAGGATTTCAACAAGTTATGCAAGTTGTCCGAGAGCAGATCACCCGGGCTCTGCCCTCTAAACCCAAC  
TCTTTGGATCAGTTCAAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATTCGCGGTTGCGCCAGTCTG  
AGAGGATGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGAT  
CCTGGAGCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCCGGAAAATCGGGAAC  
CGTCGTCGGCAAGAGAGTCTGGCACTGCCGCTTGGCACTGAACCACAAGGTTTGCATTACGGTGACT  
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GGCCATTGTTACTGAAAAGACTGTCCTCACATGAAAGAGAAGAGTGCCCTGAAACAGAACAAGGAGGTG  
TTGGAATTGGCCTTCTCCATCCTGTATGATCCTGATGAGACACTGAATTTATTGCTCCCAACAGTATG  
AGTACTGCATCTGGATTGATGGACTCAGCGCTCTCCTGGGGAAGGATATGTCCAGCGAGCTAACCAAGAG  
CGACTTGGACACGCTGCTGAGCATGGAGATGAAGCTGCGGCTTCTGGACTTGGAGAACATTCAGATCCCC  
GAGCGCCACCTCCGGTCCCAAGGAGCCAGCAGCTATGACTTCGTCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR230976 representing NM\_001302752  
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLVYVTEQTRNDIK  
 NGTILQLAVSPSRAARQLMERTQSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL  
 SHYSEMLAFTLTAFLELMDHGI VSWDMVSVTFIKQIAGYVSQPMVDVSI LQRSLAILESMVLNSQSLYQK  
 IAEEITVGQLISHLQVSNQEIQT YAIALINALFLKAPEDKRQDMANAF AQKHLRSIILNHVIRGNRPIKT  
 EMAHQLYVLQVLT FNLL EERMMTKMDPNDQAQRDII FELRRIA FDAESDP SNVPGSGTEKRKAMYTKDYK  
 MLGFTNHINPALDFTQTPPGMLALDNMLYLAKVHQDTYIRIVLENS SREDKHECPFRSAIELTKMLCEI  
 LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN  
 SLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQRNLRLCEGSSFRKIGN  
 RRRQERFWHCRLALNHKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAIIVTGKDCPHMKEKSALKQNKEV  
 LELAFSILYDPDETLNF IAPNKYEYCIWIDGLSALLGKDMSELTKSDLDTLLSMEMKLRLLDLENIQIP  
 EAPPPVPKEPSSYDFVYHYG

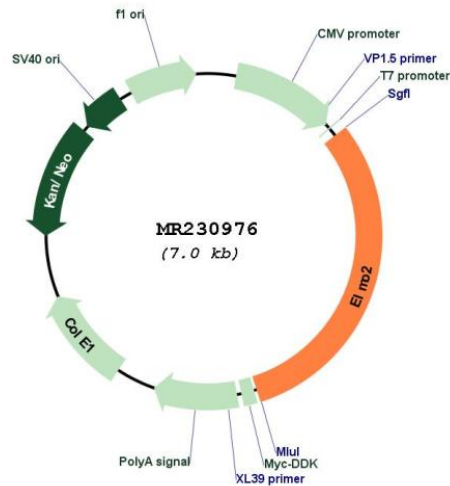
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001302752

**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.

**RefSeq:** [NM\\_001302752.1](#), [NP\\_001289681.1](#)

**RefSeq Size:** 4711 bp

**RefSeq ORF:** 2163 bp

Locus ID: 140579

UniProt ID: [Q8BHL5](#)

Cytogenetics: 2 H3

MW: 83 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]