

Product datasheet for **MR220040**

Elmo2 (NM_080287) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_080287) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR220040 representing NM_080287
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCTCCGCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG
 AACGGGACAATCTTACAACCTGGCCGCTCCCCGTCGCCGGCTGCACGCCAGCTGATGAAAAGGACCCAGT
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC
 CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG
 TCCCACTACAGTGAATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT
 CCTGGGACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGT
 GTCCATCTCCAGCGGTCCTGGCCATCTAGAGAGCATGGTACTAACAGCCAGAGCCTGTACCAGAAG
 ATAGCGGAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACAGGAGATCCAGACCT
 ACGCCATTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACATGGCCAAATGC
 CTTTGACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAATCAAAAACA
 GAGATGGCCATCAGCTGTATGCTCCTCAGGTCTTGACCTTTAACCTTCTGGAAGAAAGAATGATGACCA
 AGATGGATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACTGAGGAGGATTGCCTTCGACGCAGA
 GTCTGACCCAGCAACGTCCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAA
 ATGCTGGGCTTCCCAACCATATCAACCCAGCCTTGACTTCACCCAGACTCCTCCTGGAATGCTGGCGC
 TGGACAACATGCTGTACCTGGCTAAAGTCCACCAGGACACTACATCCGGATCGTGGAGAAGCAGCAG
 TCGGGAGGACAAAACACGAGTGTCCGTTCCGGCCGAGTCCATCGAGCTCACCAAGATGCTCTGTGAGATC
 CTGCAGGTCGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCATGTTCTTACCCACGACCGAG
 CCTTCGAGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGC
 CGAGGATTTCAACAAGGTTATGCAAGTTGTCCGAGAGCAGATCACCCGGGCTCTGCCCTCTAAACCCAAC
 TCTTTGGATCAGTTCAAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATTCGCGGTTGCGCCAGTCTG
 AGAGGATGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGAT
 CCTGGAGCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCCGAAAAATCGGGAAC
 CGTCGTCGGCAAGAGAGGTTCTGGCACTGCCGCTTGGCACTGAACCACAAGGTTTTGCATTACGGTGACT
 TGGATGACAACCCCAAGGGGAGGTGACATTCGAATCCCTGCAGGAGAAAATTCCTGTTGCAGATATTAA
 GGCCATTGTTACTGAAAAGACTGTCCTCACATGAAAGAGAAGAGTGCCCTGAAACAGAACAAGGAGGTG
 TTGAAATTGGCCTTCTCCATCCTGTATGATCCTGATGAGACACTGAATTTATTGCTCCCAACAAGTATG
 AGTACTGCATCTGGATTGATGGACTCAGCGCTCTCCTGGGGAAGGATATGTCCAGCGAGCTAACCAAGAG
 CGACTTGGACACGCTGCTGAGCATGGAGATGAAGCTGCGGCTTCTGGACTTGGAGAACATTCAGATCCCC
 GAGGCGCCACCTCCGGTCCCCAAGGAGCCAGCAGCTATGACTTCGTCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR220040 representing NM_080287
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLVYVTEQTRNDIK
 NGTILQLAVSPSRAARQLMERTQSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL
 SHYSEMLAFTLTAFLELMDHGI VSWDMVSVTFIKQIAGYVSQPMVDVSI LQRSLAILESMVLNSQSLYQK
 IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAF AQKHLRSIILNHVIRGNRPIKT
 EMAHQLYVLQVLT FNLL EERM TKMDPNDQAQRDIIFELRRIAFDAESDPSNVPGSGTEKRKAMYTKDYK
 MLGFTNHINPALDFTQTPPGMLALDNMLYLAKVHQD TYIRIVLENS SREDKHECFGRSAIELTKMLCEI
 LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN
 SLDQFKSLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQRLNRLCEGSSFRKIGN
 RRRQERFWHCRLALNHKVLHYGDLDNPNQGEVTFESLQEKIPVADIKAIIVTGKDCPHMKEKSALKQNKEV
 LELAFSILYDPDETLNF IAPNKYEYCIWIDGLSALLGKDMSELTKSDLDTLLSMEMKLRLLDLENIQIP
 EAPPPVPKEPSSYDFVYHYG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_080287

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_080287.2](#), [NP_525026.2](#)

RefSeq Size: 4600 bp

RefSeq ORF: 2163 bp

Locus ID: 140579

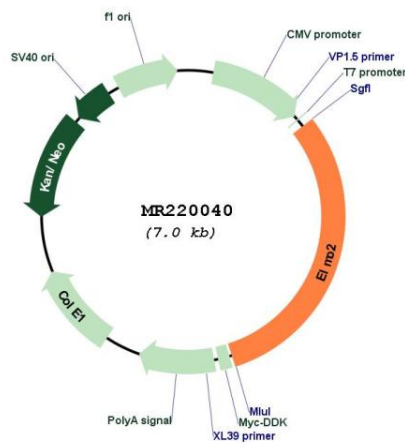
UniProt ID: [Q8BHL5](#)

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]

Product images:



Circular map for MR220040