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Product datasheet for MR220048

Elmo2 (NM_207705) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_207705) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12; mKIAA1834
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR220048 representing NM_207705
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCCAGCTCCTTGAAA
TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA
GTACTACACCCTCCGCTATGCAGATGGGCCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG
AACGGGACAATCTTACAACTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGGAAAGGACCCAGT
CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC
CACGGAGTTCATTAACATGGACGGCATCATTGTGCTGACGAGGCTCGTGGAGAGTGGGACCAAGCTCCTG
TCCCACTACAGTGAGATGCTGGCATTCACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT
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GTCCATCCTCCAGCGGTCCCTGGCCATCCTAGAGAGCATGGTACTAAACAGCCAGAGCCTGTACCAGAAG
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ACGCCATTGCTCTGATTAACGCGCTGTTCCTGAAGGCCCCCGAAGACAAGAGACAGGACATGGCCAATGC
CTTTGCACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAATCAAAACA
GAGATGGCCCATCAGCTGTATGTCCTTCAGGTCTTGACCTTTAACCTTCTGGAAGAAAGAATGATGACCA
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TGGACAACATGCTGTACCTGGCTAAAGTCCACCAGGACACCTACATCCGGATCGTGCTGGAGAACAGCAG
TCGGGAGGACAAACACGAGTGTCCGTTCGGCCGCAGTGCCATCGAGCTCACCAAGATGCTCTGTGAGATC
CTGCAGGTCGGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCCATGTTCTTCACCCACGACCGAG
CCTTCGAGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGC
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TCTTTGGATCAGTTCAAGAGTAAACTTCGTAGCCTGAGCTACTCAGAAATTCTGCGGTTGCGCCAGTCTG
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CCTGGAGCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCCGGAAAATCGGGAAC
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CCTTGAACACCAGTGCTCTCACTGTGAGGAGGTGTGGCCAGCACAGCGGTATCCCCACAAGCCAGGCAGC
CAAAATGGATCGCTAAGTCTTTGGACCTTCTACCACTGGGCTGGACTGCCCACTTCACACAGAGGTCTGT
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AGAGCAGCTGGCCTGGCACAGGGAGGGTTTTCCTCTTTGTAATCTCGCAGTTACTTTTCCCAGGAGAGTT
GAATCCCAGTTACCTGGAGCCAACCTGGTCAGGCTGTGGAGCCAGATGGATCTGCCCCTCCTAACAAGGG
ACTCCCAATTCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220048 representing NM_207705
Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLYVTEQTRNDIK
NGTILQLAVSPSRAARQLMERTQSSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGTKLL
SHYSEMLAFTLTAFLELMDHGIVSWDMVSVTFIKQIAGYVSQPMVDVSILQRSLAILESMVLNSQSLYQK
IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAFAQKHLRSIILNHVIRGNRPIKT
EMAHQLYVLQVLTFNLLEERMMTKMDPNDQAQRDIIFELRRIAFDAESDPSNVPGSGTEKRKAMYTKDYK
MLGFTNHINPALDFTQTPPGMLALDNMLYLAKVHQDTYIRIVLENSSREDKHECPFGRSAIELTKMLCEI
LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN
SLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQRLNRLCEGSSFRKIGN
RRRQERFWHCRLALNHKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAIVTGKDCPHMKEKSALKQNKEV
LELAFSILYDPDETLNFIAPNKYEVSSVPHCLEHQCPHCEEVSVPHCLEHQCSHCEEVWPAQRYPHKPGS
QNGSLSLWTFYHWAGLPTSHRGLSSSAFRGLGLELCATTPNLSLCALEQLAWHREGFPLCNLAVTFPRRV
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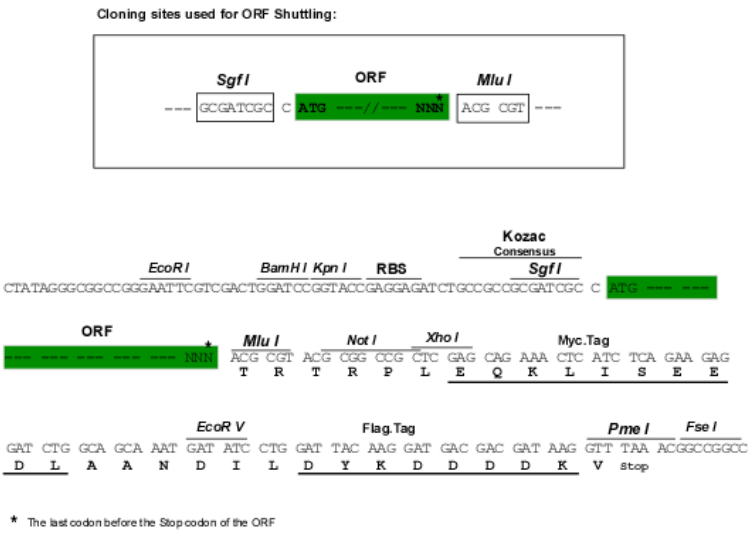
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207705

ORF Size: 2394 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_207705.1, NP_997588.1

RefSeq Size: 3242 bp

RefSeq ORF: 2397 bp

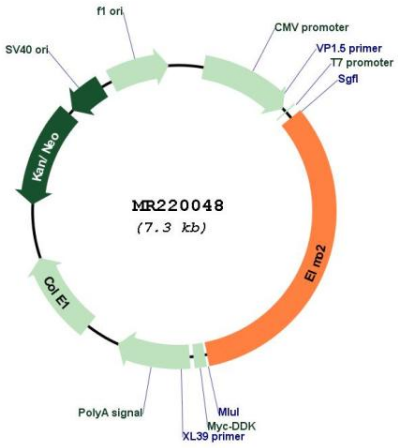
Locus ID: 140579

Cytogenetics: 2 H3

MW: 91.7 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]

Product images:



Circular map for MR220048