

## Product datasheet for **MG220048**

### Elmo2 (NM\_207705) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_207705) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12; mKIAA1834
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220048 representing NM\_207705  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA  
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA  
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG  
 AACGGGACAATCTTACAACCTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGAAAGGACCCAGT  
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC  
 CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG  
 TCCCCTACAGTGAATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT  
 CCTGGGACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGT  
 GTCATCTCCAGCGGTCCCTGGCCATCCTAGAGAGCATGGTACTAAACAGCCAGAGCCTGTACCAGAAG  
 ATAGCGGAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACAGGAGATCCAGACCT  
 ACGCCATTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACATGGCCAAATGC  
 CTTTGACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAATCAAAACA  
 GAGATGGCCCATCAGCTGTATGTCCTTCAGGTCTTGACCTTAACTTCTGGAAGAAAGAATGATGACCA  
 AGATGGATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACTGAGGAGGATTGCCTTCGACGCAGA  
 GTCTGACCCACAGCAACGTCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAA  
 ATGCTGGGCTTCCCAACCATATCAACCCAGCCTTGACTTACCAGACTCCTCCTGGAATGCTGGCGC  
 TGGACAACATGCTGTACCTGGCTAAAGTCCACCAGGACACATCCGGATCGTGGAGAAGCAGCAG  
 TCGGGAGGACAAACACGAGTGTCCGTTCCGCGCAGTGCATCGAGCTACCAAGATGCTCTGTGAGATC  
 CTGCAGGTCCGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCATGTTCTTACCACAGCCGAG  
 CCTTCGAGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGC  
 CGAGGATTTCAACAAGGTTATGCAAGTTGTCCGAGAGCAGATCACCCGGCTCTGCCCTCTAAACCAAC  
 TCTTTGGATCAGTTCAAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATTCGCGGTTGCGCCAGTCTG  
 AGAGGATGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGAT  
 CCTGGAGCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCCGAAAATCGGGAAC  
 CGTCGTCGGCAAGAGAGGTTCTGGCACTGCCGCTTGGCACTGAACCACAAGGTTTGCATTACGGTGACT  
 TGGATGACAACCCCTCAAGGGGAGGTGACATTCGAATCCCTGCAGGAGAAAATTCCTGTTGCAGATATTA  
 GGCCATTGTTACTGAAAAGACTGTCCTCACATGAAAGAGAAGAGTGCCCTGAAACAGAACAAGGAGGTG  
 TTGGAATTGGCCTTCTCCATCCTGTATGATCCTGATGAGACACTGAATTTATTGCTCCCAACAAGTATG  
 AGGTAAGTAGTGTGCCACTGCCTTGAACACCAGTGCCTCACTGTGAGGAGGTGTCTGTGCCACTG  
 CCTTGAACACCAGTGTCTCACTGTGAGGAGGTGTGGCCAGCACAGCGGTATCCCACAAGCCAGGCAGC  
 CAAAATGGATCGCTAAGTCTTTGGACCTTCTACCACTGGGCTGGACTGCCACTTACACAGAGGTCTGT  
 CTTCTCTGCCTCAGAGGGCTGGGATTAGAATTTGCGCCACCACCCAACTTTCACTTTGTGCCTT  
 AGAGCAGCTGGCCTGGCACAGGGAGGGTTTTCTCTTTGTAATCTCGCAGTTACTTTTCCAGGAGAGTT  
 GAATCCCAGTTACCTGGAGCCAACCTGGTCAGGCTGTGGAGCCAGATGGATCTGCCCTCCTAACAAAGG  
 ACTCCAATTCACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG220048 representing NM\_207705  
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLYVTEQTRNDIK  
 NGTILQLAVSPSRAARQLMERTQSSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL  
 SHYSEMLAFTLTAFLELMDHGIVSWDMVSVTFIKQIAGYVSQPMVDVSILQRSLAILESMVLSQSLYQK  
 IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAFQKHLRSIILNHVIRGNRPIKT  
 EMAHQLYVLQVLTFNLLEERMMTKMDPNDQAQRDIIIFELRRIAFDAESDPSNVPGSGTEKRKAMYTKDYK  
 MLGFTNHINPALDFTQTPPGMLALDNMLYLAKVHQDTYIRIVLENSREDKHECFGRSAIELTKMLCEI  
 LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN  
 SLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQLNRLCEGSSFRKIGN  
 RRRQERFWHCRLALNHKVLHYGDLDNPNQGEVTFESLQEKIPVADIKAIIVTGKDCPHMKEKSALKQNKEV  
 LELAFSILYDPDETLNF IAPNKYEVSSVPHCLEHQCPHCEEVSVPHCLEHQCSHCEEVWPAQRYPHKPGS  
 QNGSLSLWTFYHWAGLPTSHRGLSSSAFRGLGLELCATTPNLSLCALEQLAWHREGFPLCNLAVTFPRRV  
 ESQLPGANLVRLWSQMDLPLLTRDSQFT

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**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

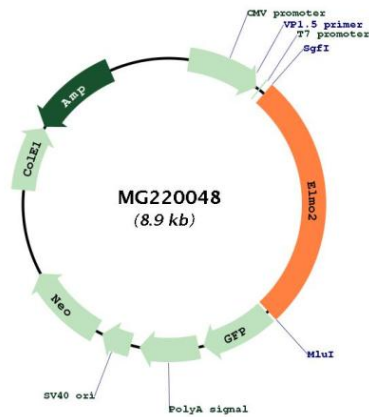
**RefSeq ORF:** 2397 bp

**Locus ID:** 140579

**Cytogenetics:** 2 H3

**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 MG220048