

Product datasheet for **MG210342**

Elmo2 (BC023954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (BC023954) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elmo2
Synonyms:	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:

>MG210342 representing BC023954
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTACCGGAGCAGACCCGAAATGACATTAAG
 AACGGGACAATCTTACAACGGCCGCTCCCGTCCCGGGCTGCACGCCAGCTGATGAAAGGACCCAGT
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC
 CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG
 TCCCACTACAGTGAATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT
 CCTGGGACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGT
 GTCCATCTCCAGCGGTCCCTGGCCATCTAGAGAGCATGGTACTAAACAGCCAGAGCCTGTACCAGAAG
 ATAGCGGAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACAGGAGATCCAGACCT
 ACGCCATTGCTCTGATTACCGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACAAGCACCTTAA
 CCCTCTAGACCTGCCGCTCACTGACATGGCCAATGCCTTTCACAGAAAGCACCTTCGGTCCATAATCCTG
 AACCATGTGATCAGAGGGGAATCGTCCAATCAAAACAGAGATGGCCATCAGCTGTATGTCCTTCAGGTCT
 TGACCTTTAACCTTCTGGAAGAAAGAATGATGACCAAGATGGATCCCAATGACCAGGCTCAGAGAGACAT
 TATATTTGAACTGAGGAGGATTGCCTTCGACGCAGAGTCTGACCCAGCAACGTCCCGGGAGTGGGACT
 GAAAAGCGCAAGGCCATGTATACCAAGGACTATAAAATGCTGGGCTTACCAACCATATCAACCCAGCCT
 TGGACTTCACCCAGACTCCTCCTGGAATGCTGGCGCTGGACAACATGCTGTACCTGGCTAAAGTCCACCA
 GGACACCTACATCCGGATCGTGTGGAGAACAGCAGTCCGGGAGGACAAACACGAGTGTCCGTTCCGGCCGC
 AGTGCCATCGAGCTCACCAAGATGCTCTGTGAGATCCTGCAGGTCCGGGAGCTCCCTAATGAAGGGCGCA
 ATGACTACCACCCATGTTCTTACCCACGACCGAGCCTTCGAGGAACTCTTCGGGATCTGCATCCAGCT
 GCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGCCGAGGATTTCAACAAGTTATGCAAGTTGTCCGA
 GAGCAGATCACCCGGCTCTGCCCTCTAAACCAACTCTTGGATCAGTTCAGAGTAAACTTCGTAGCC
 TGAGCTACTCAGAAATTCGCGTTGCGCCAGTCTGAGAGGATGAGCCAGGATGATTTCCAGTCCCACC
 AATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGATCCTGGAGCTGATCAAGCAACAGCGCCTCAACCGG
 CTATGCGAGGGCAGCAGCTTCCGAAAAATCGGGAACCGTCGTCCGCAAGAGAGGTTCTGGCACTGCCGCT
 TGGCACTGAACCAAGGTTTTGCATTACGGTGACTTGGATGACAACCTCAAGGGGAGGTGACATTCGA
 ATCCCTGCAGGAGAAAATTCCTGTTGCAGATATTAAGGCCATTGTTACTGGAAAAGACTGTCCCTACATG
 AAAGAGAAGAGTGCCTGAAACAGAACAAAGGAGGTGTTGGAATTGGCCTTCTCCATCCTGTATGATCCTG
 ATGAGACTGAATTTCAATTGCTCCCAACAAGTATGAGTACTGCATCTGGATTGATGGACTCAGCGCTCT
 CCTGGGGAAGGATATGTCCAGCGAGTAACCAAGAGCGACTTGGACACGCTGCTGAGCATGGAGATGAAG
 CTGCGGCTTCTGGACTTGGAGAACATTCAGATCCCCGAGGCGCCACCTCCGGTCCCCAAGGAGCCCAGCA
 GCTATGACTTCGCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210342 representing BC023954
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLVYVTEQTRNDIK
 NGTILQLAVSPSRAARQLMERTQSSMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL
 SHYSEMLAFTLTAFLELMDHGI VSWDMVSVTFIKQIAGYVSQPMVDVSI LQRSLAILESMVLNSQSLYQK
 IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDKHLNPLDLPVTDMANAFAQKHLRSIIL
 NHVIRGNRP IKTEMAHQLYVLQVLT FNLL EERM T KMDPNDQAQRDIIFELRRIAFDAESDP SNVPGSGT
 EK RKAMYTKDYKMLGFTNHINPALDFTQT PPGMLALDNMLYLAKVHQDTYIRIVLENS SREDKHECPFGR
 SAIELTKMLCEILQVGELPNEGRNDYHPMF FTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVR
 EQITRALPSKPNSLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQLNR
 LCEGSSFRKIGNRRRQERFWHCR LALNHKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAI VTKDCPHM
 KEKSALKQNKEVLELAFSILYDPDETLNFIAPNKYEYCIWIDGLSALLGKDMSELTKSDLDTLLSMEMK
 LRLLDLENIQIPEAPPPVPKEPSSYDFVYHYG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC023954

ORF Size: 2198 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: [BC023954](#), [AAH23954](#)

RefSeq Size: 3501 bp

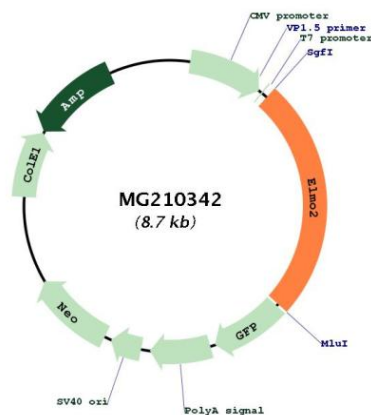
RefSeq ORF: 2198 bp

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 MG210342