

Product datasheet for **MG220091**

Elmo1 (NM_080288) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo1 (NM_080288) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elmo1
Synonyms:	6330578D22Rik; C230095H21Rik; CED-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220091 representing NM_080288
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGCCCTTCGGACATCGTGAAGGTGGCCATAGAATGGCCTGGCGCCTACCCTAAACTCATGGAGA
 TTGACCAGAAAAAGCCACTGTCTGCCATTATAAAGGAAGTCTGTGATGGTGGTCTCTTGCCAACCATGA
 ATATTTTGCACACTGCAGCACGCTGATAGTTCAAACCTTCTACATCACAGAAAAGAATCGCAACGAAATAAAA
 AATGGCACGATCCTTCGATTAACACATCTCCAGCTCAGAATGCCAGCAGCTCCATGAACGAATACAGT
 CATCAAGTATGGATGCCAAGTTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTTACCTTTGC
 TCAGGAGTTCATAAACCTGGATGGCATCTCACTTCTCACTCAGATGGTGGAAAGTGGCACTGAACGATAC
 CAGAAGTGCAGAAGATTATGAAGCCCTGCTTTGGAGACATGCTGTCCTTCACTCTCACAGCCTTTGTGG
 AGTTGATGGACCACGGCATTGTATCATGGGATACATTCTCAGTGGCCTTCATTAAGAAGATAGCCAGCTT
 TGTGAACAAGTCTGCCATAGACATCTCAATCCTCCAGCGGTCCTTGGCCATTCTGGAGTCAATGGTTCTC
 AACAGTCATGACCTCTACCAAAAGGTAGCCAGGAGATCACCATTTGGCCAACCTATTCTCATCTTCAGG
 GGACAGACCAAGAAATACAACTTACACCATTTGCTGTAATCAACGCACCTTTTCTCAAAGCTCTGATGA
 GAGGAGACAGGAGATGGCGAATATTTGGCTCAGAAGCAGCTGCCTACATCATTTTAACACATGTCATC
 CGAGCACAGCGGGCCATCAACAATGAGATGGCACACCAGTTATATGTTCTCCAAGTGTGACCTTTAACC
 TTCTGGAAGACAGGATGATGACTAAGATGGACCCCAAGGAGGACCCAAAGGGACATCATATTTGAACT
 TCGAAGAATTGCTTCGATGCAGAGTCAGAACCTAATAACAGCAGTGGCAGCATGGAGAAACGCAAGTCC
 ATGTACACTCGGATTATAAAAACTTGGCTTCATTAATCACGTCAATCCTGCCATGGACTTCACACAGA
 CCCCTCCTGGGATGCTGGCTCTGGACAACATGCTGATTTTCGCTAAGCACCACCAGGATGCATACATCCG
 GATCGTGTAGAGAACAGCAGCCGAGAAGATAAACATGAGTGCCCTTCGGCCCGCAGCAGTATAGAGCTG
 ACCAAGATGCTGTGTGAGATCCTCAAAGTGGGCGAGCTGCCTAGTGAGACCTGCAACGACTTTCACCCGA
 TGTTCTTACCCATGACAGATCTTTTGAGGAATCTTCTGCATTTGCATTCAACTCCTGAACAAAACATG
 GAAGGAAATGAGGGCAACATCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGA
 GCGCTTACAACCAAGCTAGTTCCTGGACCAGTTCAAAGCAAGCTGCAAAACCTGAGCTACACCGAGA
 TCCTGAAAATCCGCCAGTCTGAGAGGATGAACCAGGAAGATTTCCAGTCTCGCCGATTTTGAACATAAA
 GGAGAAGATCCAGCCAGAAATCTTAGAGCTGATTAACAGCAGCGCCTGAACCGCCTTGGAAGGGACC
 TGCTTTAGGAACTCAATGCTCGCCGGAGACAAGACAAGTTTTGGTATTGTCGGCTTTCACCAAATCACA
 AGGTCTTACATTATGGCGACTTGAAGAGAGCCCAAGGAGAAGTGCCACAGATTCCCTGCAGGACAA
 ATTGCCGGTGGCAGATATCAAAGCAGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGGAAAAGGTGCC
 CTTAAACAAAACAAGGAGGTGCTTGAACCTGCTTTCTCCATTTATACGACTCAAATTGCCAACCTGAACT
 TCATTGCTCCTGATAAGCATGAGTACTGCATCTGGACAGATGGGCTGAATGCACTGCTTGGGAAGGACAT
 GATGAGTGACCTGACACGCAATGACCTGGACACCCTGCTGAGCATGGAGATCAAGCTTCGCTGCTGGAC
 CTGGAAAACATCCAGATCCCGGATGCACCTCCGCCTATCCCAAGGAACCTAGCAACTATGACTTTGTCT
 ATGACTGTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG220091 representing NM_080288
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGAYPKLMEIDQKKPLSAIIKEVCDGWSLANHEYFALQHADSSNFYITEKNRNEIK
 NGTILRLTTSPAQNAQQLHERIQSSMDAKLEALKDLASL SRDVTFAQEFINLDGISLLTQMVESGTERY
 QKLQKIMKPCFGDMLSFTLTAFVELMDHGI VSWDTFSVAFIKKIASFVNKSAIDISILQRSLAILESMVL
 NSHDLYQKVAQEITIGQLIPHLQGT DQEIQTYTIAVINALFLKAPDERRQEMANILAQKQLRYIILTHVI
 RAQRAINNEMAHQLYVLQVLT FNLLLED RMMTKMDPQDQAQRDIIFELRRIAFDAESEPNNSSGSMEKRKS
 MYTRDYKKLGF INHVNPAMDFTQT PPGMLALDNMLYFAKHHQDAYIRIVLENSSREDKHECPFGRSSIEL
 TKMLCEILKVGELPSETCNDFHPMF FTHDRSFEEFFCICIQLLNKTWKEMRATSEDFNKVMQVVKEQVMR
 ALTTKPSLSDQFKSKLQNL SYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQRLNRLVEGT
 CFRKLNARRRQDKFWYCR LSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
 LKQNKVELELAFSILYDNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLD
 LENIQIPDAPPPIPKEPSNYDFVYDCN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080288

ORF Size: 2181 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_080288.2](#), [NP_525027.1](#)

RefSeq Size: 2186 bp

RefSeq ORF: 2184 bp

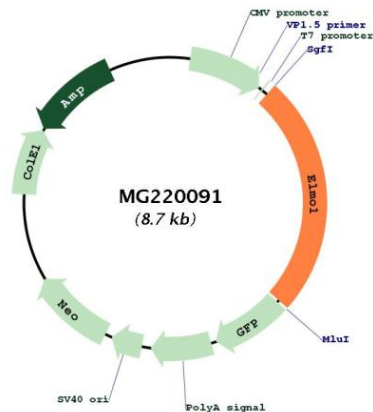
Locus ID: 140580

UniProt ID: [Q8BPU7](#)

Cytogenetics: 13 A2

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 MG220091