

Product datasheet for **MG209203**

Elmo3 (BC018516) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo3 (BC018516) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elmo3
Synonyms:	CED12, MGC67684, 9930107J06
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209203 representing BC018516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGATGAATGTTCTCTGTAGCCTAGGGGAGATGCTGGCCCTTGGTCTAAGGGCTTTCTGGAGCTCA
 TGGAACACGGTGTAGTGTCTGGGAGACACTCAGCATCTCCTTTGTCAGGAAGGTGATATCTTATGTGAA
 CATGAACCTGATGGATGCCTCTGTCCAGCCCTGGCTCTGAGACTGCTGGAGAGTGTGACCTTGAGCAGT
 CCTGCCCTGGCCAGCTGGTGAAGAGTGAAGTGGCCACTGGATAGGCTGCTGGTGCACCTGCAAGTAATGA
 ACCACCAGCTGCAAACCAAGGCCATGGCTCTGTTGACGGCCCTGCTGCAGGGAGCCAGCCCCACTGAACG
 CAAGGAAATGCTTGACCACCTATGGAAGAAGAATCTTCGCCAGTTCATCTACAAGAACATCATCCACAGT
 GCAACACCCATGGGTGACGAGATGGCTCATCACTTGTATGTGCTGCAGGCTCTTACCCTAGGGCTGCTGG
 AGCCACGGATGCGGACACCACTTGATCCCTACAGCCAGGAACAGCGGGACCAGCTGCAGGCTCTGCGCCA
 GGCAGCCTTTGAACCAGAGGGGGAGTCTTGGGCACAGGGCTCAGTGCAGACCGCCGCGGTCTCTCTGT
 GTCGAGAGTTCCGCAAGTTAGGCTTCTCTAACAGCAACCCAGCCAGGACTGGAGCGTGTGCCCCCG
 GCCTGCTGGCCCTGGACAATATGCTCTACTTCTCCAGACATGCACCAAGTGCATACAGTCGGTTTGTGTT
 GGAGAACAGTAGCCGAGAGGACAAGCATGAATGCCCTTTGCCCGGAGCAGCATCCAGCTGACAGCGTTG
 CTGTGTGAGCTGCTCCGTGTTGGGGAGCCTTGCTCCGAGACAGCCAGGACTTCTCGCCCATGTTCTTCA
 GCCAAGACCACAGTTCCATGAGCTCTTCTGTGTGGCTATCCAGTACTGAATAAGACCTGGAAGGAGAT
 GCGGGCAACACAGGAAGATTTTGACAAGGTGATGCAAGTGGTTCGGGAGCAGCTGGCCGTACCCCTGGCT
 CTGAAGCCACCTCCCTGGAGCTCTTTCGAACCAAGTGAATGCCCTCACCTATGGGGAAGTGTGAGGC
 TCGCGCAGACAGAGCGGCTGCACCAGGAGGGCACGCTGGCCCTCCTATACTGGAATTGCGAGAGAACT
 GAAGCCAGAGCTCATGGGCTTAATCCGCCAGCAGCGTTTGCTCCGACTCTGTGAAGGAATGCTCTTCCGC
 AAGATCAGCAGCCGAGACGACAGGACAAGCTATGGTTTTGCTGTTTATCCCCAACACAAAGTACTGC
 AGTATGGGGATGTGGAGGAGGTGCCAAGCCCTACCCTAGAAAGCCTACCTGAACAGCTCCCTGTGGC
 AGACATCAGGGCACTCCTAATGGCAAGGACTGCCCCATGTCCGGGAGAAGGGCTCTGGGAAGCAGAAC
 AAGGACCTGTATGAGCTGGCTTCTCCATCAGCTATGACCACGGGGAGGAAGAAGCATACCTCAACTTCA
 TTGCCCTCCAAACGGGATTTCTACCTGTGGACAGACGGGCTAAGTGCCTGCTGGGCAGTACCATGGG
 CAGTGAGCTGACTCGGCTAGACCTGGAGCAGCTGCTCACTATGGAGACCAAGTTGCGGTTGTTGAACTG
 GAGAACGTGCCATTCTGAGCAGCTCCCCAGTACCCACCCCTACCAACTTAACCTCTGCTATG
 ACTACAGCATCACTGAGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209203 representing BC018516
 Red=Cloning site Green=Tags(s)

MGMNVLCSLGEMLALGLRAFLELMEHGVSWE T L S I S F V R K V I S Y V N M N L M D A S V Q P L A L R L L E S V T L S S
 P A L G Q L V K S E V P L D R L L V H L Q V M N H Q L Q T K A M A L L T A L L Q G A S P T E R K E M L D H L W K K N L R Q F I Y K N I I H S
 A T P M G D E M A H H L Y V L Q A L T L G L L E P R M R T P L D P Y S Q E Q R D Q L Q A L R Q A A F E P E G E S L G T G L S A D R R R S L C
 V R E F R K L G F S N S N P A Q D L E R V P P G L L A L D N M L Y F S R H A P S A Y S R F V L E N S S R E D K H E C P F A R S S I Q L T A L
 L C E L L R V G E P C S E T A Q D F S P M F F S Q D H S F H E L F C V A I Q L L N K T W K E M R A T Q E D F D K V M Q V V R E Q L A R T L A
 L K P T S L E L F R T K V N A L T Y G E V L R L R Q T E R L H Q E G T L A P P I L E L R E K L K P E L M G L I R Q Q R L L R L C E G M L F R
 K I S S R R R Q D K L W F C C L S P N H K V L Q Y G D V E E G A K P P T L E S L P E Q L P V A D I R A L L M G K D C P H V R E K G S G K Q N
 K D L Y E L A F S I S Y D H G E E E A Y L N F I A P S K R D F Y L W T D G L S A L L G S T M G S E L T R L D L E Q L L T M E T K L R L L E L
 E N V P I P E Q P P P P P P P T N F N F C Y D Y S I T E P

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none"> 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:	BC018516.1
RefSeq Size:	2319 bp
RefSeq ORF:	1772 bp
Locus ID:	234683
Cytogenetics:	8 D3
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]