

## Product datasheet for **MC228765**

### Elmo2 (NM\_001302752) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_001302752) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228765 representing NM\_001302752  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA  
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA  
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG  
 AACGGGACAATCTTACAACCTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGAAAAGACCCAGT  
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC  
 CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG  
 TCCCACTACAGTGAATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCT  
 CCTGGGACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGT  
 GTCATCTCCAGCGGTCCCTGGCCATCCTAGAGAGCATGGTACTAACAGCCAGAGCCTGTACCAGAAG  
 ATAGCGGAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACAGGAGATCCAGACCT  
 ACGCCATTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACATGGCCAAATGC  
 CTTTGACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAATCAAAACA  
 GAGATGGCCATCAGCTGTATGCTCCTCAGGTCTTGACCTTAACTTCTGGAAGAAAGAATGATGACCA  
 AGATGGATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACTGAGGAGGATTGCCTTCGACGCAGA  
 GTCTGACCCAGCAACGTCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAA  
 ATGCTGGGCTTCCCAACCATATCAACCCAGCCTTGACTTCACCCAGACTCCTCCTGGAATGCTGGCGC  
 TGGACAACATGCTGTACCTGGCTAAAGTCCACCAGGACACCTACATCCGGATCGTGGAGAACAGCAG  
 TCGGGAGGACAAACACGAGTGTCCGTTCCGGCCGAGTCCATCGAGCTCACCAAGATGCTCTGTGAGATC  
 CTGCAGGTCCGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCATGTTCTTACCACACGACCGAG  
 CCTTCGAGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGC  
 CGAGGATTTCAACAAGGTTATGCAAGTTGTCCGAGAGCAGATCACCCGGGCTCTGCCCTCTAAACCCAAC  
 TCTTTGGATCAGTTCAAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATTCGCGGTTGCGCCAGTCTG  
 AGAGGATGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGAT  
 CCTGGAGCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTTCCGAAAAATCGGGAAC  
 CGTCGTCGGCAAGAGAGGTTCTGGCACTGCCGCTTGGCACTGAACCACAAGGTTTTGCATTACGGTGACT  
 TGGATGACAACCTCAAGGGGAGGTGACATTCGAATCCCTGCAGGAGAAAATTCCTGTTGCAGATATTAA  
 GGCCATTGTTACTGAAAAGACTGTCCTCACATGAAAGAGAAGAGTGCCCTGAAACAGAACAAGGAGGTG  
 TTGGAATTGGCCTTCTCCATCCTGTATGATCCTGATGAGACACTGAATTTATTGCTCCCAACAAGTATG  
 AGTACTGCATCTGGATTGATGGACTCAGCGCTCTCCTGGGGAAGGATATGTCCAGCGAGCTAACCAAGAG  
 CGACTTGGACACGCTGCTGAGCATGGAGATGAAGCTGCGGCTTCTGGACTTGGAGAACATTGAGATCCCC  
 GAGGCGCCACCTCCGGTCCCAAGGAGCCAGCAGCTATGACTTCGTCTATCACTATGG**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001302752  
**Insert Size:** 2163 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001302752.1, NP_001289681.1</u>
<b>RefSeq Size:</b>	4711 bp
<b>RefSeq ORF:</b>	2163 bp
<b>Locus ID:</b>	140579
<b>UniProt ID:</b>	<u>Q8BHL5</u>
<b>Cytogenetics:</b>	2 H3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) uses an alternate exon in the 5' UTR and lacks an in-frame exon in the coding region compared to variant 2. It encodes isoform 3, which is shorter than isoform 2. Variants 3 and 4 encode the same isoform (3).</p>