

## Product datasheet for **MC228759**

### Elmo2 (NM\_001302754) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmo2 (NM_001302754) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Elmo2
Synonyms:	1190002F24Rik; CED-12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228759 representing NM\_001302754  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCGCCTCCGTCTGACATTGTCAAAGTGGCCATCGAGTGGCCAGGTGCTAACGCCAGCTCCTTGAAA  
 TTGACCAGAAACGGCCGCTGGCATCCATCATCAAGGAGGTGTGCGATGGGTGGTCACTGCCGAACCCGGA  
 GTACTACACCCTCCGCTATGCAGATGGGCTCAGCTCTACGTCACGGAGCAGACCCGAAATGACATTAAG  
 AACGGGACAATCTTACAACCTGGCCGTCTCCCCGTCCCGGGCTGCACGCCAGCTGATGAAAAGGACCCAGT  
 CATCTAGTATGGAGACCCGGCTGGATGCCATGAAGGAGTTGGCTAAGCTCTCAGCTGACGTGACTTTCGC  
 CACGGAGTTCATTAACATGGACGGCATATTGTGCTGACGAGGCTCGTGGAGAGTGGACCAAGCTCCTG  
 TCCCATGAGATGCTGGCATTACCCTGACTGCCTTCTTAGAGCTCATGGATCATGGCATTGTCTCCTGGG  
 ACATGGTTTCAGTCACCTTTATTAAGCAGATTGCAGGGTACGTGAGCCAGCCCATGGTCGATGTGCCAT  
 CCTCCAGCGGTCCCTGGCCATCCTAGAGAGCATGGTACTAACAGCCAGAGCCTGTACCAGAAGATAGCG  
 GAGGAGATCACCGTGGGACAGCTCATCTCCACCTGCAGGTCTCCAACCGAGAGATCCAGACCTACGCCA  
 TTGCTCTGATTAACGCGCTGTTCTGAAGGCCCCGAAGACAAGAGACAGGACATGGCCAATGCCTTTGC  
 ACAGAAGCACCTTCGGTCCATAATCCTGAACCATGTGATCAGAGGGAATCGTCCAATCAAAACAGAGATG  
 GCCCATCAGCTGTATGTCCTCAGGTCTTGACCTTTAACCTTCTGGAAGAAAGAAATGATGACCAAGATGG  
 ATCCCAATGACCAGGCTCAGAGAGACATTATATTTGAACCTGAGGAGGATTGCCTTCGACGCAGAGTCTGA  
 CCCCAGCAACGTCCCGGGAGTGGGACTGAAAAGCGCAAGGCCATGTATACCAAGGACTATAAAATGCTG  
 GGCTTCACCAACCATATCAACCCAGCCTTGACTTCACCCAGACTCCTCCTGGAATGCTGGCGCTGGACA  
 ACATGCTGTACCTGGCTAAAGTCCACCAGGACACCTACATCCGGATCGTGTGGAGAACAGCAGCTCGGGA  
 GGACAAAACACGAGTGTCCGTTCCGGCCGAGTGCCATCGAGCTCACCAAGATGCTCTGTGAGATCCTGCAG  
 GTCGGGGAGCTCCCTAATGAAGGGCGCAATGACTACCACCCATGTTCTTACCCACGACCGAGCCTTCG  
 AGGAACTCTTCGGGATCTGCATCCAGCTGCTGAACAAGACCTGGAAGGAGATGAGGGCGACAGCCGAGGA  
 TTTCAACAAGGTTATGCAAGTTGTCGAGAGCAGATCACCCGGGCTCTGCCCTCTAAACCCAACCTTTTG  
 GATCAGTTCAAGAGTAACTTCGTAGCCTGAGCTACTCAGAAATCTGCGGTTGCGCCAGTCTGAGAGGA  
 TGAGCCAGGATGATTTCCAGTCCCACCAATTGTGGAGCTTCGAGAGAAGATACAGCCTGAGATCCTGGA  
 GCTGATCAAGCAACAGCGCCTCAACCGGCTATGCGAGGGCAGCAGCTCCGGAAAATCGGGAACCGTCGT  
 CGGCAAGAGAGGTTCTGGCACTGCCGCTTGGCACTGAACCACAAGTTTTGCATTACGGTGACTTGGATG  
 ACAACCTCAAGGGGAGGTGACATTGCAATCCCTGCAGGAGAAAATTCCTGTTGCAGATATTAAGGCCAT  
 TGTTACTGAAAAAGACTGTCTCACATGAAAGAGAAGAGTGCCCTGAAACAGAACAGGAGGTGTTGGAA  
 TTGGCCTTCTCCATCCTGTATGATCCTGATGAGACACTGAATTTTCATTGCTCCCAACAAGTATGAGTACT  
 GCATCTGGATTGATGGACTCAGCGCTCTCCTGGGGAAGGATATGTCCAGCGAGCTAACCAAGAGCGACT  
 GGACACGCTGCTGAGCATGGAGATGAAGCTGCGGCTTCTGGACTGGAGAACATTCAGATCCCCGAGGCG  
 CCACCTCCGGTCCCCAAGGAGCCAGCAGCTATGACTTCGTCTATCACTATGGC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001302754  
**Insert Size:** 2157 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_001302754.1, NP_001289683.1</u>
<b>RefSeq Size:</b>	4538 bp
<b>RefSeq ORF:</b>	2157 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 (5) differs in the 5' UTR, uses an alternate in-frame splice site in the 5' coding region, and lacks an exon in the coding region compared to variant 2. It encodes isoform 4, which is shorter than isoform 2.</p>