

## Product datasheet for **RC215722**

### **ELMO1 (NM\_001039459) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ELMO1 (NM_001039459) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELMO1
Synonyms:	CED-12; CED12; ELMO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC215722 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCCACCCGCGACATCGTCAAGGTGGCCATAGAATGGCCGGGCGCCTACCCAAACTCATGGAAA  
 TTGATCAGAAAAAACCACTGTCTGCAATAATAAGGAAGTCTGTGATGGGTGGTCTCTTGCCAACCATGA  
 ATATTTTGCCTCCAGCATGCCGATAGTTCAAACCTTCTATATCACAGAAAAGAACCAGCAATGAGATAAAA  
 AATGGCACTATCCTTCGATTAACACATCTCCAGCTCAGAAGCCAGCAGCTCCATGAACGAATCCAGT  
 CCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTCACGTTTGC  
 CCAGGAGTTTATAAACCTGGACGGTATCTCTCCTCACGCAGATGGTAGAGAGCGGCACCTGAGCGATAC  
 CAGAAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCCTTCAACCCTGACGGCCTTCGTTG  
 AGCTGATGGACCATGGCATAAGTGTCTGGGATACATTTTCGGTGGCGTTCATTAAGAAGATAGCAAGTTT  
 TGTGAACAAGTCAGCCATAGACATCTCGATCCTGCAGCGGTCTTGGCCATTTTGGAGTCGATGGTGCTC  
 AATAGCCATGACCTCTACCAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCCACACCTGCAAG  
 GGTGAGATCAAGAAATCCAAACCTATACTATTGCAAGTATTAATGCGCTTTTCTGAAGGCTCCTGATGA  
 GAGGAGGCAGGAGATGGCGAATATTTGGCTCAGAAGCAACTGCGTTCATTTTAAACACATGTCATC  
 CGAGCCCAGCGGCCATCAACAATGAGATGGCGCACCAGCTGTATGTTCTACAAGTGTCCACCTTAAAC  
 TCCTGGAAGACAGGATGATGACCAAAATGGACCCAGGACCAGGCTCAGAGGGACATCATATTTGAACT  
 TCGAAGAATTGCTTTGATGCTGAGTCTGAACCTAACACAGCAGTGGCAGCATGGAGAAACGCAAGTCC  
 ATGTACACGCGAGATTATAAGAAGCTTGGGTTTCAATATCATGTCAACCTGCCATGGACTTCACGCAGA  
 CTCCACCTGGGATGTTGGCTCTGGACAACATGCTGACTTTGCCAAGCACCACCAAGATGCCTACATCCG  
 GATTTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGAGTAGTATAGAGCTG  
 ACCAAGATGCTATGTGAGATCTTGAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTCCACCCGA  
 TGTCTTCCACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACATG  
 GAAGGAAATGAGGGCACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGA  
 GCACTTACAACCAAGCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGA  
 TCCTGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCGATTTTGAAGTAA  
 GGAGAAGATTAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCTGAACCGCCTTGGAAGGGACC  
 TGCTTTAGGAACTCAATGCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGGCTTTCGCCAAATCACA  
 AAGTCTGCATTACGGAGACTTAGAAGAGAGTCTCAGGGAGAAGTGCCCCACGATTCCTTGAGGACAA  
 ACTGCCGGTGGCAGATATCAAAGCCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGGAAAGGTGCC  
 CTTAAACAAAACAAGGAGGTGCTTGAACCTCGCTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACT  
 TCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACGGATGGACTGAATGCGCTACTCGGGAAGGACAT  
 GATGAGCGACCTGACGCGGAATGACCTGGACACCTGCTCAGCATGGAATCAAGCTCCGCCTCCTGGAC  
 CTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATCCCAAGGAGCCAGCAACTATGACTTCGTCT  
 ATGACTGTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215722 protein sequence  
Red=Cloning site Green=Tags(s)

MPPPADIVKVAIEWPGAYPKLMEIDQKKPLSAIIKEVCDGWSLANHEYFALQHADSSNFYITEKNRNEIK  
 NGTILRLTTSPAQNAQQLHERIQSSMDAKLEALKDLASL SRDVTFAQEFINLDGISLLTQMVESGTERY  
 QKLQKIMKPCFGDMLSFTLTAFVELMDHGIVSWDTFSVAFIKKIASFVNKSAIDISILQRSLAILESMVL  
 NSHDLYQKVAQEITIGQLIPHLQGSQDEIQTYTIAVINALFLKAPDERRQEMANILAQKQLRSIILTHVI  
 RAQRAINNEMAHQLYVLQVLT FNLLLEDRMMTKMDPQDQAQRDIIFELRRIAFDAESEPNSSSGSMEKRKS  
 MYTRDYKKLGF INHVNPAMDFTQTPPGMLALDNMLYFAKHHQDAYIRIVLENSSREDKHECPFGRSSIEL  
 TKMLCEILKVGELPSETCNDHFPMFFTHDRSFEEFFCICIQLLNKTWKEMRATSEDFNKVMQVVKEQVMR  
 ALTTKPSLSDQFKSKLQNL SYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQRLNRLVEGT  
 CFRKLNARRRQDKFWYCR LSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA  
 LKQNKVELELAFSILYDNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLD  
 LENIQIPDAPPPIPKEPSNYDFVYDCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6446\\_d08.zip](https://cdn.origene.com/chromatograms/mk6446_d08.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001039459

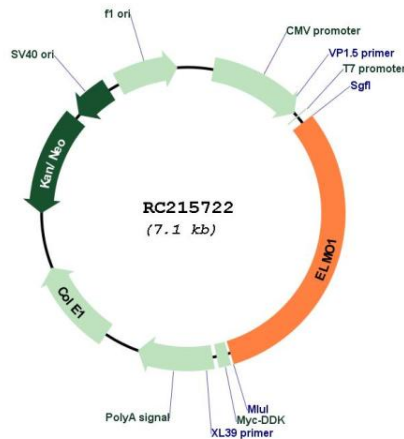
**ORF Size:** 2181 bp

**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](#)

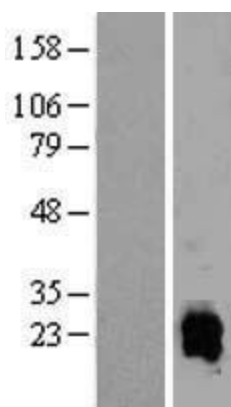
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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 Size:</b>	3590 bp
<b>RefSeq ORF:</b>	744 bp
<b>Locus ID:</b>	9844
<b>UniProt ID:</b>	<a href="#">Q92556</a>
<b>Cytogenetics:</b>	7p14.2-p14.1
<b>Protein Pathways:</b>	Chemokine signaling pathway
<b>MW:</b>	83.8 kDa
<b>Gene Summary:</b>	This gene encodes a member of the engulfment and cell motility protein family. These proteins interact with dedicator of cytokinesis proteins to promote phagocytosis and cell migration. Increased expression of this gene and dedicator of cytokinesis 1 may promote glioma cell invasion, and single nucleotide polymorphisms in this gene may be associated with diabetic nephropathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

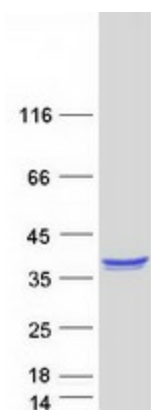
### Product images:



Circular map for RC215722



Western blot validation of overexpression lysate (Cat# [LY422048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215722 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ELMO1 protein (Cat# [TP315722]). The protein was produced from HEK293T cells transfected with ELMO1 cDNA clone (Cat# RC215722) using MegaTran 2.0 (Cat# [TT210002]).