OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC215541

ELMO1 (NM_014800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO1 (NM_014800) 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)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

ORF Nucleotide Sequence:

>RC215541 representing NM_014800
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGCCACCCGCGGACATCGTCAAGGTGGCCATAGAATGGCCGGGCGCCTACCCCAAACTCATGGAAA
TTGATCAGAAAAAACCACTGTCTGCAATAATAAAGGAAGTCTGTGATGGGTGGTCTCTTGCCAACCATGA
ATATTTTGCACTCCAGCATGCCGATAGTTCAAACTTCTATATCACAGAAAAGAACCGCAATGAGATAAAA
AATGGCACTATCCTTCGATTAACCACATCTCCAGCTCAGAACGCCCAGCAGCTCCATGAACGAATCCAGT
CCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTCACGTTTGC
CCAGGAGTTTATAAACCTGGACGGTATCTCTCTCCTCACGCAGATGGTAGAGAGCGGCACTGAGCGATAC
CAGAAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGTCCTTCACCCTGACGGCCTTCGTTG
AGCTGATGGACCATGGCATAGTGTCCTGGGATACATTTTCGGTGGCGTTCATTAAGAAGATAGCAAGTTT
TGTGAACAAGTCAGCCATAGACATCTCGATCCTGCAGCGGTCCTTGGCCATTTTGGAGTCGATGGTGCTC
AATAGCCATGACCTCTACCAGAAAGTGGCGCAGGAGATCACCATCGGCCAGCTCATTCCACACCTGCAAG
GGTCAGATCAAGAAATCCAAACCTATACTATTGCAGTGATTAATGCGCTTTTCCTGAAGGCTCCTGATGA
GAGGAGGCAGGAGATGGCGAATATTTTGGCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATC
CGAGCCCAGCGGGCCATCAACAATGAGATGGCGCACCAGCTGTATGTTCTACAAGTGCTCACCTTTAACC
TCCTGGAAGACAGGATGATGACCAAAATGGACCCCCAGGACCAGGCTCAGAGGGACATCATATTTGAACT
TCGAAGAATTGCTTTTGATGCTGAGTCTGAACCTAACAACAGCAGTGGCAGCATGGAGAAACGCAAGTCC
ATGTACACGCGAGATTATAAGAAGCTTGGGTTCATTAATCATGTCAACCCTGCCATGGACTTCACGCAGA
CTCCACCTGGGATGTTGGCTCTGGACAACATGCTGTACTTTGCCAAGCACCACCAAGATGCCTACATCCG
GATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGCAGTAGTATAGAGCTG
ACCAAGATGCTATGTGAGATCTTGAAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTCCACCCGA
TGTTCTTCACCCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACATG
GAAGGAAATGAGGGCAACTTCTGAAGACTTCAACAAGGTAATGCAGGTGGTGAAGGAGCAGGTTATGAGA
GCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGAGCAAACTGCAGAACCTGAGCTACACTGAGA
TCCTGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCCGATTTTGGAACTAAA
GGAGAAGATTCAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGTGGAAGGGACC
TGCTTTAGGAAACTCAATGCCCGGCGGAGGCAAGACAAGTTTTGGTATTGTCGGCTTTCGCCAAATCACA
AAGTCCTGCATTACGGAGACTTAGAAGAGAGTCCTCAGGGAGAAGTGCCCCACGATTCCTTGCAGGACAA
ACTGCCGGTGGCAGATATCAAAGCCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCC
CTTAAACAAAACAAGGAGGTGCTTGAACTCGCTTTCTCCATCTTGTATGACTCAAACTGCCAACTGAACT
TCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACGGATGGACTGAATGCGCTACTCGGGAAGGACAT
GATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGCATGGAAATCAAGCTCCGCCTCCTGGAC
CTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAGCCCAGCAACTATGACTTCGTCT
ATGACTGTAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Protein Sequence:

>RC215541 representing NM_014800
Red=Cloning site Green=Tags(s)

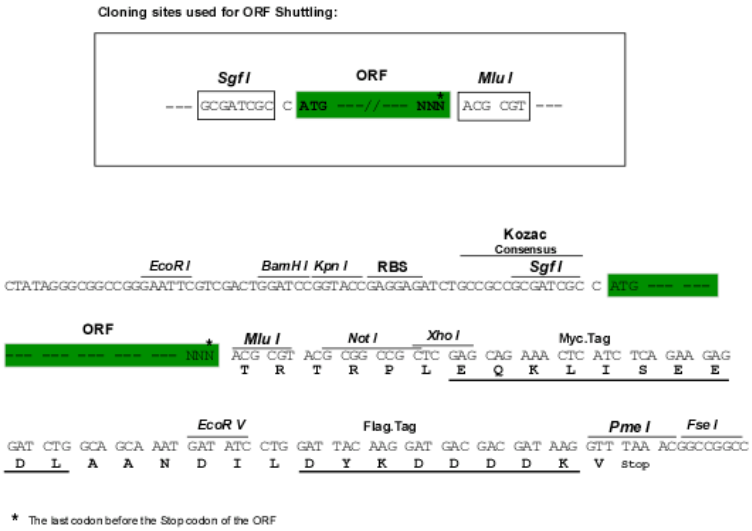
MPPPADIVKVAIEWPGAYPKLMEIDQKKPLSAIIKEVCDGWSLANHEYFALQHADSSNFYITEKNRNEIK
NGTILRLTTSPAQNAQQLHERIQSSSMDAKLEALKDLASLSRDVTFAQEFINLDGISLLTQMVESGTERY
QKLQKIMKPCFGDMLSFTLTAFVELMDHGIVSWDTFSVAFIKKIASFVNKSAIDISILQRSLAILESMVL
NSHDLYQKVAQEITIGQLIPHLQGSDQEIQTYTIAVINALFLKAPDERRQEMANILAQKQLRSIILTHVI
RAQRAINNEMAHQLYVLQVLTFNLLEDRMMTKMDPQDQAQRDIIFELRRIAFDAESEPNNSSGSMEKRKS
MYTRDYKKLGFINHVNPAMDFTQTPPGMLALDNMLYFAKHHQDAYIRIVLENSSREDKHECPFGRSSIEL
TKMLCEILKVGELPSETCNDFHPMFFTHDRSFEEFFCICIQLLNKTWKEMRATSEDFNKVMQVVKEQVMR
ALTTKPSSLDQFKSKLQNLSYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQQRLNRLVEGT
CFRKLNARRRQDKFWYCRLSPNHKVLHYGDLEESPQGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
LKQNKEVLELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLD
LENIQIPDAPPPIPKEPSNYDFVYDCN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4196_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014800

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

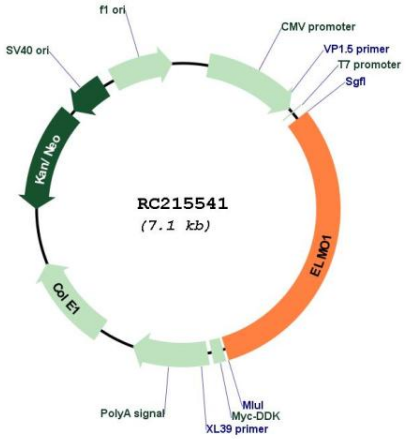
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

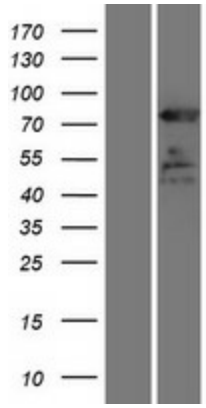
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile 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_014800.9, NP_055615.8
RefSeq Size:	3727 bp
RefSeq ORF:	2184 bp
Locus ID:	9844
UniProt ID:	Q92556
Cytogenetics:	7p14.2-p14.1
Domains:	DUF609
Protein Pathways:	Chemokine signaling pathway
MW:	83.6 kDa
Gene Summary:	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]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

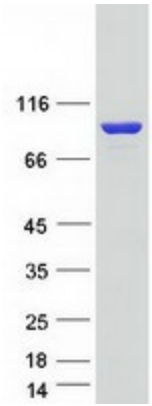
Product images:



Circular map for RC215541



Western blot validation of overexpression lysate (Cat# [LY415009]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215541 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ELMO1 protein (Cat# [TP315541]). The protein was produced from HEK293T cells transfected with ELMO1 cDNA clone (Cat# RC215541) using MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US