

Product datasheet for **RG215541**

ELMO1 (NM_014800) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO1 (NM_014800) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELMO1
Synonyms:	CED-12; CED12; ELMO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG215541 representing NM_014800
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGCCCCACCCGCGACATCGTCAAGGTGGCCATAGAATGGCCGGCGCCTACCCAAACTCATGGAAA
TTGATCAGAAAAAACCACTGTCTGCAATAATAAGGAAGTCTGTGATGGTGGTCTCTTGCCAACCATGA
ATATTTTGCCTCCAGCATGCCGATAGTTCAAACCTTCTATATCACAGAAAAGAACCAGCAATGAGATAAAA
AATGGCACTATCCTTCGATTAACCAACATCTCCAGCTCAGAACGCCAGCAGCTCCATGAACGAATCCAGT
CCTCGAGTATGGATGCCAAGCTGGAAGCCCTGAAGGACTTGGCCAGCCTCTCCCGGGATGTCACGTTTGC
CCAGGAGTTTATAAACCTGGACGGTATCTCTCCTCACGCAGATGGTGGAGAGCGGCCTGAGCGATAC
CAGAAATTGCAGAAGATCATGAAGCCTTGTCTTGGAGACATGCTGTCCTTCAACCCTGACGGCCTTCGTTG
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AATAGCCATGACCTCTACCAGAAAGTGGCGCAGGAGATACCATCGGCCAGCTCATTCCACACCTGCAAG
GGTCAGATCAAGAAATCCAAACCTATACTATTGCAGTGATTAATGCGCTTTTCTGAAGGCTCCTGATGA
GAGGAGGCAGGAGATGGCGAATATTTGGCTCAGAAGCAACTGCGTTCATTTTAAACACATGTCATC
CGAGCCCAGCGGCCATCAACAATGAGATGGCGCACCAGCTGTATGTTCTACAAGTGTCCACCTTAAAC
TCCTGGAAGACAGGATGATGACCAAAATGGACCCAGGACCAGGCTCAGAGGGACATCATATTTGAACT
TCGAAGAATTGCTTTGATGCTGAGTCTGAACCTAACACAGCAGTGGCAGCATGGAGAAACGCAAGTCC
ATGTACACGCGAGATTATAAGAAGCTTGGTTCATTAATCATGTCAACCTGCCATGGACTTACGCAGCA
CTCCACCTGGGATGTTGGCTCTGGACAACATGCTGACTTTGCCAAGCACCACCAAGATGCCTACATCCG
GATTTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGAGTAGTATAGAGCTG
ACCAAGATGCTATGTGAGATCTTGAAAGTGGGCGAGTTGCCTAGTGAGACCTGCAACGACTTCCACCCGA
TGTTCTTCAACCACGACAGATCCTTTGAGGAGTTTTTCTGCATCTGTATCCAGCTCCTGAACAAGACATG
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GCATTTACAACCAAGCTAGCTCCCTGGACCAGTTCAAGAGCAAACCTGCAGAACCTGAGCTACACTGAGA
TCCTGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCGATTTTGAAGTAA
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TGCTTTAGGAACTCAATGCCCGCGGAGGCAAGACAAGTTTTGGTATTGTGCGCTTTCGCCAAATCACA
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ACTGCCGTGGCAGATATCAAAGCCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGGAAAAGGTGCC
CTTAAACAAAACAAGGAGGTGCTTGAACCTCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACT
TCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACGGATGGACTGAATGCGCTACTCGGGAAGGACAT
GATGAGCGACCTGACGCGAATGACCTGGACACCCTGCTCAGCATGGAATCAAGCTCCGCCTCCTGGAC
CTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTTCCAAGGAGCCAGCAACTATGACTTCGTCT
ATGACTGTAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG215541 representing NM_014800
 Red=Cloning site Green=Tags(s)

MPPPADIVKVAIEWPGAYPKLMEIDQKKPLSAIIEKVCWGWSLANHEYFALQHADSSNFYITEKNRNEIK
 NGTILRLTTSPAQNAQQLHERIQSSMDAKLEALKDLASL SRDVTFAQEFINLDGISLLTQMVESGTERY
 QKLQKIMKPCFGDMLSFTLTA FVELMDHGIVSWDTFSVAFIKKIASFVNKSAIDISILQRSLAILESMVL
 NSHDLYQKVAQEITIGQLIPHLQGSQDEIQTYTIAVINALFLKAPDERRQEMANILAQKQLRSIILTHVI
 RAQRAINNEMAHQLYVLQVLT FNLLLED RMMTKMDPQDQAQRDIIFELRRIAFDAESEPNNSSGSMEKRKS
 MYTRDYKKLGF INHVNPAMDFTQTPPGMLALDNMLYFAKHHQDAYIRIVLENSSREDKHECPFGRSSIEL
 TKMLCEILKVGELPSETCNDFHPMFTHDRSFEEFFCICIQLLNKTKEMRATSEDFNKVMQVVKEQVMR
 ALTTKPSLSDQFKSKLQNL SYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQRLNRLVEGT
 CFRKLNARRRQDKFWYCR LSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
 LKQNKVELELAFSILYDNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLLSMEIKLRLLD
 LENIQIPDAPPIPKEPSNYDFVYDCN

TRTRPLE - GFP Tag - V

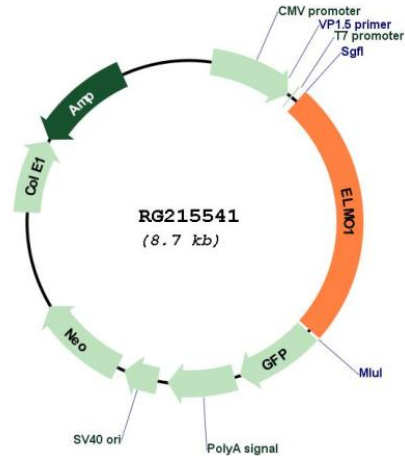
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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.

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

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]