

Product datasheet for **RG216889**

ELMO2 (NM_133171) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO2 (NM_133171) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELMO2
Synonyms:	CED-12; Ced-12A; CED12; ELMO-2; VMPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RG216889 representing NM_133171
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGCCACCACCGTCAGACATTGTCAAAGTGCCATTGAGTGCCAGGTGCTAACGCCAGCTCCTTGAAA
TCGACCAGAAACGGCCCTGGCATCCATTATCAAGGAAGTTTGATGGGTGGTGGTCCAAACCCAGA
GTATTATACCCTCCGTTATGCAGATGGTCTCAGCTGTACATCACCGAACAGACTCGCAGTGACATTAAG
AATGGGACAATCTTACAACCTGGCTATCTCCCCGTCGCCGGCTGCACGCCAGCTGATGGAGAGGACCCAGT
CATCCAACATGGAGACCCGGCTGGATGCCATGAAGGAGCTGGCCAAGCTCTGCGCAGCTGACTTTCGC
TACTGAGTTCATCAACATGGATGGCATCATTGTGCTGACAAGGCTCGTGGAAAGTGAACCAAGCTCTTG
TCCCCTACAGTGAGATGCTGGCATTACCCTGACTGCCTTCTAGAGCTCATGGACCATGGCATTGTCT
CCTGGGACATGGTTTCAATCACCTTTATTAAGCAGATTGCAGGGTATGTGAGCCAGCCCATGGTGGACGT
GTCAATCCTTCAGAGGTCCTGGCCATCCTGGAGAGCATGGTCTTGAACAGCCAGAGTCTGTACCAGAAG
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ACGCCATTGCACTGATTAAATGCATTTTTCTGAAGGCTCCTGAGGACAAAACGACAGGATATGGCAAATGC
ATTTGCACAGAAGCATCTCCGGTCTATAATCCTGAATCATGTGATCCGAGGGAACCGCCCATCAAACT
GAGATGGCCCATCAGCTATATGCTCTCAAGTCTAACCTTTAACCTTCTGGAAGAAAGGATGATGACCA
AGATGGACCCCAATGACCAGGCTCAAAGGGACATCATATTTGAACTGAGGAGGATTGCATTTGACGCAGA
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ATGCTGGGATTTACCAACCACATCAATCCAGCCATGGACTTTACCCAGACTCCTCCTGGAATGCTGGCCT
TGGACAACATGCTGTACTTGGCTAAAGTCCACCAGGACACCTACATCCGGATTGTCTTGGAGAACAGTAG
CCGGGAAGACAAAACATGAATGCCCTTTGGCCGAGTGCCATTGAGCTCACAAAATGCTCTGTGAAATC
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TCTTTGGATCAGTTCAAGAGCAAATTCGTAGCCTGAGTTACTCTGAGATTCTACGACTGCGCCAGTCTG
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TTGGAATTGGCCTTCTCCATCCTGTATGACCCTGATGAGACCTTAAACTTCATCGCACCTAATAATATG
AGTACTGCATCTGGATTGATGGCCTCAGTGCCTTCTGGGGAAGGACATGTCCAGTGAGCTGACCAAGAG
TGACCTGGACACCCTGCTGAGCATGGAGATGAAGCTGCGGCTCCTGGACCTGGAGAACATCCAGATTCCC
GAAGCCCCACCCCATCCCAAGGAGCCAGCAGCTATGACTTTGTCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216889 representing NM_133171
 Red=Cloning site Green=Tags(s)

MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLYTEQTRSDIK
 NGTILQLAISPSRAARQLMERTQSSNMETRLDAMKELAKLSADVTFATEFINMDGIIVLTRLVESGKLL
 SHYSEMLAFTLTAFLELMDHGI VSWDMVSITFIKQIAGYVSQPMVDVSI LQRSLAILESMLNSQSLYQK
 IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAFQKHLRSIILNHVIRGNRPIKT
 EMAHQLYVLQVLT FNLL EERM TKMDPNDQAQRDII FELRR IAFDAESDPSNAPGSGTEKRKAMYTKDYK
 MLGFTNHINPAMDFTQT PPGMLALDNMLYLAKVHQDTYIRIVLENS SREDKHECPFGRSAIELTKMLCEI
 LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN
 SLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQRNLRLCEGSSFRKIGN
 RRRQERFWYCRALNHNKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAIIVTGKDCPHMKEKSALKQNKEV
 LELAFSILYDPDETLNF IAPNKYEYCIWIDGLSALLGKDMSSELTKSDLDTLLSMEMKLRLLDLENIQIP
 EAPPPIPKEPSSYDFVYHYG

TRTRPLE - GFP Tag - V

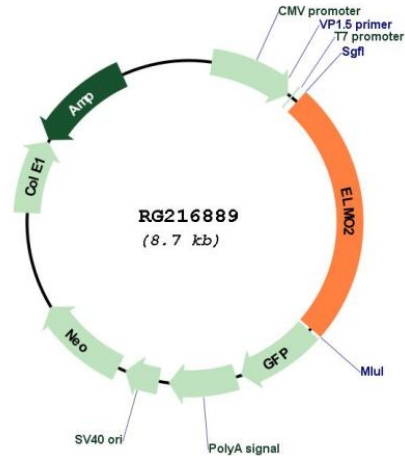
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_133171

ORF Size: 2160 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_133171.5](#)

RefSeq Size: 3722 bp

RefSeq ORF: 2163 bp

Locus ID: 63916

UniProt ID: [Q96JJ3](#)

Cytogenetics: 20q13.12

Domains: DUF609

Gene Summary: The protein encoded by this gene interacts with the dedicator of cyto-kinesis 1 protein. Similarity to a *C. elegans* protein suggests that this protein may function in phagocytosis of apoptotic cells and in cell migration. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]