

Product datasheet for **RC222021**

ELMO2 (NM_182764) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO2 (NM_182764) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ELMO2
Synonyms:	CED-12; Ced-12A; CED12; ELMO-2; VMPI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC222021 representing NM_182764
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGCCACCACCGTCAGACATTGTCAAAGTGCCATTGAGTGCCAGGTGCTAACGCCAGCTCCTTGAAA
TCGACCAGAAACGGCCCTGGCATCCATTATCAAGGAAGTTGTGATGGGTGGTGGTCCAAACCCAGA
GTATTATACCCTCCGTTATGCAGATGGTCTCAGCTGTACATCACCGAACAGACTCGCAGTGACATTAAG
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CATCCAACATGGAGACCCGGCTGGATGCCATGAAGGAGCTGGCCAAGCTCTCTGCCGACGTGACTTTCGC
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CCTTGAGCTGATCAAGCAGCAGCGCCTGAACCGGCTCTGTGAGGGCAGCAGCTTCCGAAAGATTGGGAAC
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TGACCTGGACACCCTGCTGAGCATGGAGATGAAGCTGCGGCTCCTGGACCTGGAGAACATCCAGATTCCC
GAAGCCCCACCCCATCCCAAGGAGCCAGCAGCTATGACTTTGTCTATCACTATGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222021 representing NM_182764
Red=Cloning site Green=Tags(s)

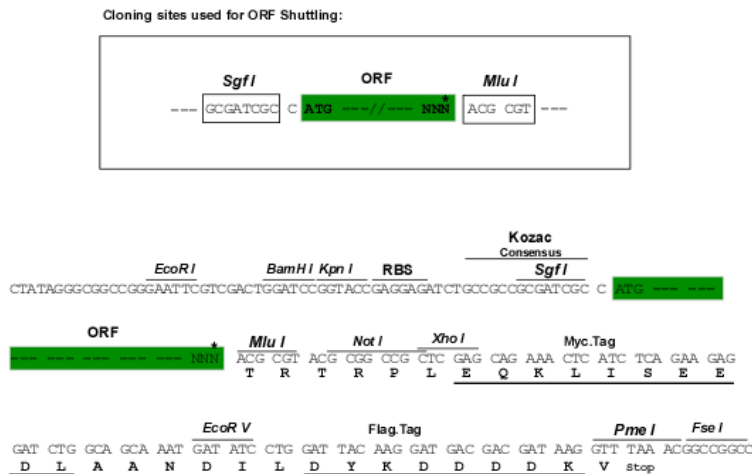
MPPPSDIVKVAIEWPGANAQLLEIDQKRPLASIIKEVCDGWSLPNPEYYTLRYADGPQLYTEQTRSDIK
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 SHYSEMLAFTLTAFLELMDHGIVSWDMVSITFIKQIAGVYSQPMVDVSIILQRSLAILESMVLNSQSLYQK
 IAEEITVGQLISHLQVSNQEIQTYAIALINALFLKAPEDKRQDMANAFQKHLRSIILNHVIRGNRPIKT
 EMAHQLYVLQVLTFNLLLEERMMTKMDPNDAQRDIIIFELRRIAFAESDPSNAPGSGTEKRKAMYTKDYK
 MLGFTNHINPAMDFTQTPPGMLALDNMLYLAKVHQDQTYIRIVLENSREDKHECFGRSAIELTKMLCEI
 LQVGELPNEGRNDYHPMFFTHDRAFEELFGICIQLLNKTWKEMRATAEDFNKVMQVVREQITRALPSKPN
 SLDQFKSKLRSLSYSEILRLRQSERMSQDDFQSPPIVELREKIQPEILELIKQQRNLRLCEGSSFRKIGN
 RRRQERFWYCRALNHNKVLHYGDLDDNPQGEVTFESLQEKIPVADIKAIIVTGKDCPHMKEKSALKQNKEV
 LELAFSILYDPDETLNF IAPNKYEYCIWIDGLSALLGKDMSELTKSDLDTLLSMEMKLRLLDLENIQIP
 EAPPPPIKPESSYDFVYHYG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6595_d08.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_182764

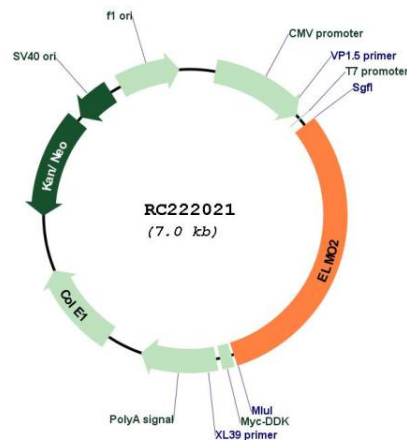
ORF Size: 2160 bp

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](#)

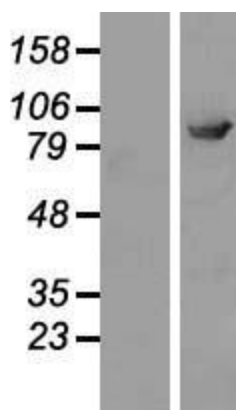
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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_182764.2 , NP_877496.1
RefSeq Size:	3596 bp
RefSeq ORF:	2163 bp
Locus ID:	63916
UniProt ID:	Q96JJ3
Cytogenetics:	20q13.12
MW:	82.4 kDa
Gene Summary:	The protein encoded by this gene interacts with the dedicator of cyto-kinesis 1 protein. Similarity to a <i>C. elegans</i> 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]

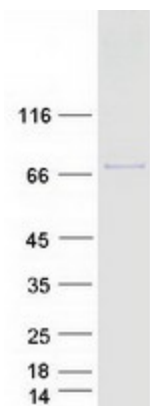
Product images:



Circular map for RC222021



Western blot validation of overexpression lysate (Cat# [LY405335]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222021 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ELMO2 protein (Cat# [TP322021]). The protein was produced from HEK293T cells transfected with ELMO2 cDNA clone (Cat# RC222021) using MegaTran 2.0 (Cat# [TT210002]).