

Product datasheet for **RG221438**

ELMO1 (NM_130442) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO1 (NM_130442) 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)
ORF Nucleotide Sequence:	>RG221438 representing NM_130442 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGGTGGTGAAGGAGCAGGTTATGAGAGCACTTACAACCAAGCCTAGCTCCCTGGACCAGTTCAAGA
GCAAACGCAGAACCTGAGCTACACTGAGATCCTGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGA
TTTCCAGTCCCGCCGATTTTGGAACTAAAGGAGAAGATTCAGCCAGAAATCTTAGAGCTGATCAAACAG
CAACGCCTGAACCGCCTTGTGGAAGGGACCTGCTTTAGGAACTCAATGCCGGCGGAGGCAAGACAAGT
TTTGGTATTGTCGGCTTTCGCCAAATCACAAAGTCTGCATTACGGAGACTTAGAAGAGAGTCCTCAGGG
AGAAGTGCCACGATTCCTTGCAGGACAACTGCCGGTGGCAGATATCAAAGCCGTGGTACGGGAAAG
GACTGCCCTCATATGAAAGAGAAAGGTGCCCTTAAACAAAACAAGGAGGTGCTTGAACCTCGCTTTCTCCA
TCTTGTATGACTCAAACCTGCAACTGAACCTCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACGGA
TGGACTGAATGCGCTACTCGGGAAGGACATGATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTC
AGCATGGAAATCAAGCTCCGCTCCTGGACCTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTC
CCAAGGAGCCCAGCAACTATGACTTCGTCTATGACTGTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221438 representing NM_130442
 Red=Cloning site Green=Tags(s)

MQVVKQVMRALTTKPSLQDFKSKLQNLQSYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQ
 QRLNRLVEGTCFRKLNARRRQDKFWYCRLLSPNHKVLHYGDLEESPQGEVPHDSLQDKLPVADIKAVVTGK
 DCPHMKEKGALKQNKVELELAFSILYDSNCQLNFIAPDKHEYCIWTDGLNALLGKDMMSDLTRNDLDTLL
 SMEIKLRLLDLENIQIPDAPPIPKEPSNYDFVYDCN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130442

ORF Size: 741 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_130442.3](#)

RefSeq Size: 2162 bp

RefSeq ORF: 744 bp

Locus ID: 9844

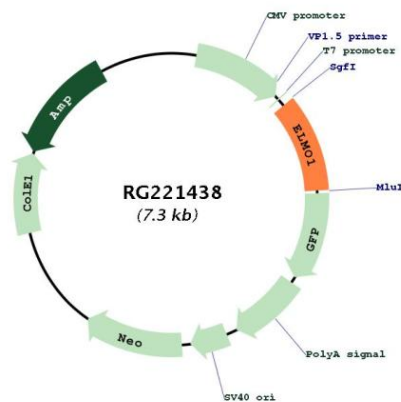
UniProt ID: [Q92556](#)

Cytogenetics: 7p14.2-p14.1

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]

Product images:



Circular map for RG221438