

Product datasheet for **RG233105**

ELMO1 (NM_001206480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ELMO1 (NM_001206480) 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)



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**ORF Nucleotide
Sequence:**

>RG233105 representing NM_001206480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGCCGCCACCCGCGACATCGTCAAGGTGGCCATAGAATGGCCGGGCGCCTACCCAAACTCATGGAAA
 TTGATCAGAAAAAACCACTGTCTGCAATAATAAGGAAGTCTGTGATGGGTGGTCTCTTGCCAACCATGA
 ATATTTTGCACTCCAGCATGCCGATAGTTCAAACCTTCTATATCACAGAAAAGAACCGCAATGAGATAAAA
 AATGGCACTATCCTTCGATTAACCACTCTCCAGCTCAGAACGCCAGCAGCTCCATGAACGAATCCAGT
 CCTCGAGTATGGATGCCAAGCTGGAAGCCTGAAGGACTTGGCCAGCCTCTCCCGGATGTCACGTTTGC
 CCAGGAGTTTATAAACCTGGACGGTATCTCTCCTCACGCAGATGGTGGAGAGCGGCACTGAGCGATAC
 CAGAAATTGCAGAAGATCATGAAGCCTTGCTTTGGAGACATGCTGCTTCACCCTGACGGCCTTCGTTG
 AGCTGATGGACCATGGCATAAGTCTCTGGGATACATTTTCGGTGGCGTTCATTAAGAAGATAGCAAGTTT
 TGTGAACAAGTCAGCCATAGACATCTCGATCCTGCAGCGGTCTTGCCATTTTGGAGTCGATGGTGCTC
 AATAGCCATGACCTCTACCAGAAAGTGGCGCAGGAGATACCATCGGCCAGCTCATTCCACACCTGCAAG
 GGTCAGATCAAGAAATCCAAACCTATACTATTGCAGTGATTAATGCGCTTTTCTGAAGGCTCCTGATGA
 GAGGAGGAGGAGATGGCAATATTTTGGCTCAGAAGCAACTGCGTTCCATCATTTTAACACATGTCATC
 CGAGCCCAGCGGGCCATCAACAATGAGATGGCGCACCAGCTGTATGTTCTACAAGTGTACACCTTAAC
 TCCTGGAAGACAGGATGATGACCAAAATGGACCCCAGGACCAGGCTCAGAGGGACATCATATTTGAAC
 TCGAAGAATTGCTTTGATGCTGAGTCTGAACCTAACACAGCAGTGGCAGCATGGAGAAACGCAAGTCC
 ATGTACACGCGAGATTATAAGAAGCTTGGGTTCATTAATCATGTCAACCTGCCATGGACTTCACGCAGA
 CTCCACCTGGGATGTTGGCTCTGGACAACATGCTGACTTTGCCAAGCACCACCAAGATGCCTACATCCG
 GATTGTGCTTGAGAACAGTAGTCGAGAAGACAAGCATGAATGTCCCTTTGGCCGAGTAGTATAGAGCTG
 ACCAAGATGCTATGTGAGATCTTGAAAGTGGGCGAGTTGCCTAGTGAGACCTGCACGACTTCACCCGA
 GTTCTTCAACCCACGACAGATCCTTTGAGGAGTTTCTGCATCTGTATCCAGCTCCTGAACAAGACATG
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 TCCTGAAAATCCGCCAGTCCGAGAGGATGAACCAGGAAGATTTCCAGTCCCGCCGATTTTGAAGTAA
 GGAGAAGATTAGCCAGAAATCTTAGAGCTGATCAAACAGCAACGCCTGAACCGCCTTGGAAGGGACC
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 ACTGCCGTGGCAGATATCAAAGCGTGGTGACGGGAAAGGACTGCCCTCATATGAAAGAGAAAGGTGCC
 CTTAAACAAAACAAGGAGGTGCTTGAACCTCGCTTTCTCCATCTTGTATGACTCAAACCTGCCAACTGAACT
 TCATCGCTCCTGACAAGCATGAGTACTGTATCTGGACGGATGGACTGAATGCGCTACTCGGAAGGACAT
 GATGAGCGACCTGACGCGGAATGACCTGGACACCCTGCTCAGCATGGAATCAAGCTCCGCCTCTGGAC
 CTGGAAAACATCCAGATCCCTGACGCACCTCCGCCGATTCCCAAGGAGCCCAGCAACTATGACTTCGTCT
 ATGACTGTAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233105 representing NM_001206480
 Red=Cloning site Green=Tags(s)

MPPPADIVKVAIEWPGAYPKLMEIDQKKPLSAIIEKVCWGSLANHEYFALQHADSSNFYITEKNRNEIK
 NGTILRLTTSPAQNAQQLHERIQSSMDAKLEALKDLASLSDVTFQAEFINLDGISLLTQMVESGTERY
 QKLQKIMKPCFGDMLSFTLTAFVELMDHGIWSDTFSVAFIKKIASFVNKSAIDISILQSLAILESMVL
 NSHDLYQKVAQEITIGQLIPHLQGSDEIQTYTIAVINLFLKAPDERRQEMANILAQKQLRSIILTHVI
 RAQRAINNEMAHQLYVLQVLTFFNLLEDMMTKMDPQDQAQRDIIFELRRIFDAESEPNNSSSGSMEKRKS
 MYTRDYKKLGFINHVNPAAMDFQTTPPGMLALDNMLYFAKHHQDAYIRIVLENSREDKHECPFGRSSIEL
 TKMLCEILKVGELPSETCNDFHPMFTHDRSFEEFFCICIQLLNKTWKEMRATSEDFNKVMQVVKEQVMR
 ALTTKPSLDQFKSKLQNL SYTEILKIRQSERMNQEDFQSRPILELKEKIQPEILELIKQRLNRLVEGT
 CFRKLNARRRQDKFWYCRLSPNHKVLHYGDLEESPOGEVPHDSLQDKLPVADIKAVVTGKDCPHMKEKGA
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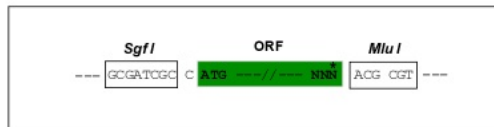
TRTRPLE - GFP Tag - V

Restriction Sites:

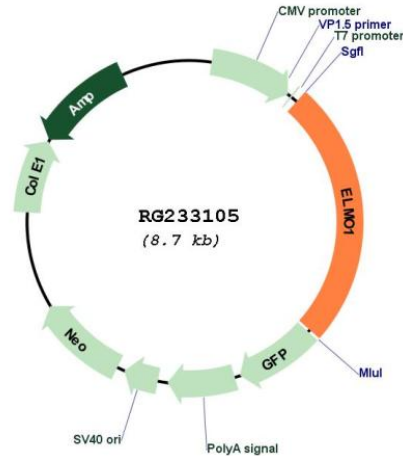
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGCGCGCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 PmeI FseI
 --- --- GAA GAA AGA GTT TAA ACGGCGCGCGCGGAGCT
 - - E E R V Stop

Plasmid Map:


ACCN: NM_001206480

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_001206480.2](#), [NP_001193409.1](#)

RefSeq Size: 5369 bp

RefSeq ORF: 2184 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]