

Product datasheet for **RG202343**

ELMOD2 (NM_153702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ELMOD2
Synonyms:	9830169G1IRik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG202343 representing NM_153702
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTATTTCTTTGTGGGAGTCTTCTATGGGCACTTTTTTCGATTTTGGATGAAATGGCTATTACGAC
AGATGACTGGGAAGTGTGAATTGCAGCGAATATTTGATACCTATGTAGGTGCACAAAGGACACACAGGAT
AGAAAATTCCTTGACATACTCCAAGAATAAGGTTTACAGAAGGCGACACATGTTGTTCCAGAGTGAAGTG
GACAAATATGTAGATGATATTATGAAGGAAAAGAATATTAACCCCTGAGAAGGATGCCAGTTTAAATAT
GCATGAAGATGTGCTTACTGCAGATAACTGGTTATAACAGCTGTATTTGGATGTAGAAAGTGTGAGGAA
AAGGCCATATGATTCTGATAACCTACAGCATGAAGAGCTACTCATGAAGCTTTGGAATCTTCTAATGCC
ACGAAGAAGTTAAACGCTAGAATCTCAAGCAGTGGGCTGAAATTTGGTTTTCAGGGTGATGATCCCAAGA
CAGACTTCAGAGGCATGGGCATACTGGGTTAATCAATCTTGTGATTTTCAGTGAATTAACACTAGTGA
AGCTCATCAGATTCTTTCCCGTTCAAATCATCCAAATTAGGGTATTCTTATGCAATAGTTGGAATCAAT
CTTACAGAGATGGCTTATAGCTTACTGAAGAGTGAAGCTTTGAAGTTTCATCTCTATAACCTTGTTCCTG
GTATACCAACAATGGAACACTTTCATCAGTTTTACTGTTATCTTGTCTATGAATTTGACAAGTTTTGGTT
TGAAGAAGAACAGAAAGCATTATGATTTCAATTTGTATAGAGAGAAGTTTCATGAAAAGATTAAAGGA
CTTTTACTGGATTGTAATGTAGCACTTACTTTAAAAGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG202343 representing NM_153702
Red=Cloning site Green=Tags(s)

MFISLWEFFYGHFFRFWMKLLRQMTGKCELQRIFDITYVGAQRTHRIENSLTYSKNKVLQKATHVVQSEV
DKYVDDIMKEKNINPEKDASFKICMKMCLLQITGYKQLYLDVESVRKRPYDSNLQHEELMKLWNLLMP
TKKLNARISKQWAEIGFQGDDPKTDFRGMGILGLINLVYFSENYTSEAHQILSRSNHPKLGYSYAIVGIN
LTEMAYSLKSEALKFHLYNLVPGIPTMEHFHQFYCYLVYEFDFKFWFEEEPESIMYFNLVREKFHEKIKG
LLLDNCVALTLKV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_153702

ORF Size: 879 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_153702.4](#)

RefSeq Size: 1360 bp

RefSeq ORF: 882 bp

Locus ID: 255520

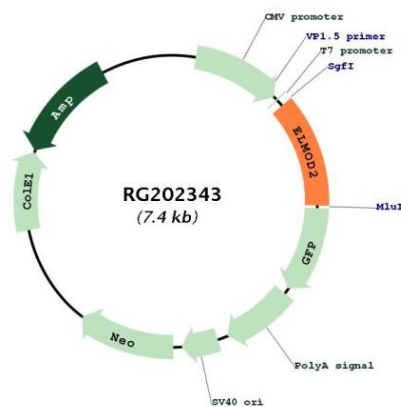
UniProt ID: [Q8IZ81](#)

Cytogenetics: 4q31.1

Domains: DUF609

Gene Summary: This gene encodes one of six engulfment and motility (ELMO) domain-containing proteins. This gene is thought to play a role in antiviral responses. Mutations in this gene may be involved in the cause of familial idiopathic pulmonary fibrosis. [provided by RefSeq, Sep 2010]

Product images:



Circular map for RG202343