

## Product datasheet for **MG224436**

### Elmod1 (NM\_177769) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmod1 (NM_177769) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Elmod1
Synonyms:	4831417L10; AI428506; AI834991
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224436 representing NM_177769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCACTTCCTGAGGATGTTGATCCAGGTGTGCCTGTATTTTTATTGTAAATTTTTGTGGCGCTGCA  
TGAAGTTTGTGATGCGGAACTCACCGAAGGTGTGAAGTCAAAGGATTTGCTACGGCACCAAACCTGG  
AGCTTCCAGAACCATGAAAATTGAAACGTCAGAGATTCAAAAAGCAAGCTTTGCAGACATCCGTG  
AGTGTTCATCCTGATGCTATTGAAAAGACTATTGATGACATCATGAATTGAAAAAATTAACCTGACA  
TCAATCCACAGTTGGGGATCTCTCCAGGCTTGCCTCCTGCAAATCGTGGGTTACAGAAACCTCATTGC  
AGATGTGGAAAACTGCGCAGAGAACCCATGATTCCGACAACCCCGAGCATGAAGAGATGCTTCTGAAG  
CTATGGGAGCTCCTGAAGCCCAACTCCACTGGAGTCTCGGGTTTCGAAGCAGTGGTGTGAGATCGGCT  
TCCAAGGCGATGATCCGAAAACAGATTTCCGAGGAATGGGTCTTCTGGGACTTTACAATTTGCAATATT  
TGCAGAACGGGATGCCACCGTGGCTCAGCAGGTCTCTCCGACTGTGCCATCCAAAATGCAGCAAATTC  
AGCAAAATAGAATGGGAAAAGAAAAGATGGATAAAGCCATTGGGTACTCCTTTGCAATTTGTTGGCATCA  
ATATCACCGACCTGGCATATAATCTGCTCGTGAGCGCGCTCTAAAAACACACTTCTACAACATTGCCCC  
CGAAGCTCCGACACTGTCTCACTTCCAACAAACATTCTGCTATTTGATGCAGAGTTTACAAGTTTTGG  
ATTGAAGAGGACCCCATGGACATAATGGAGTTTAAATCGCGTGAGGGAGAAATCCGCAAGAGGATCATAA  
AACAGCTGCAGAACCCAGATATGGCGCTGTGCCGCATTTTGTGCATCGGAAGTTTAAATCAACATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG224436 representing NM\_177769  
Red=Cloning site Green=Tags(s)

MKHFLRMLIQVCLFYCKFLWRCMKFVMRKL TGRCELQRICYGTPGASRTMKIETSLRDSKSKLLQTSV  
 SVHPDAIEKTIDDIMELKKINPDINPQLGISLQACLLQIVGYRNL IADVEKLRREPYDSNPNQHEEMLLK  
 LWELLPNTPLESRVSKQWCEIGFQGGDPKTD FRGMGLLGLYNLQYFAERDATVAQQVLSDSVHPKCSKF  
 SKIEWEKKKMDKAIGYSFAIVGINITDLAYNLLVSGALKTHFYNI APEAPTL SHFQQTFCYLMHEFHKFW  
 IEEDPMDIMEFN RVREKFRKRIKQLQNPDMALCPHFAASEGLINM

TRTRPLE - GFP Tag - V

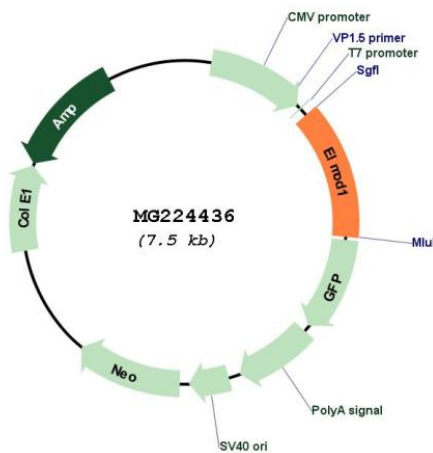
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_177769

**ORF Size:** 978 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_177769.4</a> , <a href="#">NP_808437.2</a>
<b>RefSeq Size:</b>	2605 bp
<b>RefSeq ORF:</b>	981 bp
<b>Locus ID:</b>	270162
<b>UniProt ID:</b>	<a href="#">Q3V1U8</a>
<b>Cytogenetics:</b>	9 A5.3
<b>Gene Summary:</b>	Acts as a GTPase-activating protein (GAP) toward guanine nucleotide exchange factors like ARL2, ARL3, ARF1 and ARF6, but not for GTPases outside the Arf family.[UniProtKB/Swiss-Prot Function]