

## Product datasheet for **MR204034**

### Elmod2 (NM\_001170691) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Elmod2 (NM_001170691) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elmod2
Synonyms:	9830169G11Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204034 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTCGTGCTCTGTGGGAGTTTTTCTATGGACACTTTTTCCGATTTTGGATGAAATGGCTCTTACGGC  
AGATGACTGGGAAATGTGAATTGCAGCGAATTTTTGACACCTATGGAGGGGCACAGAGGACCTACAGAAC  
AGAAAATTCCTTGACATATCCAAGAATAAGGTCCTACAGAATGCAACACGAGTTGCCAGAGTGAAGT  
GACAGGTGTATAGCGAACATCATGAAGGAAAAGAACATCTGCTCCGAGAAGGACACAAGTTTTTCAGATCT  
GCATGCGGACGTGCTTACTGCAGATAACTGGCTATAAACAGCTCTACCACGATGTAGAAAATGTGAGGAA  
AAAGCCCTATGACTCTGCCAATGCACAGCACGAGAAGATGCTCCTCAAGCTTTGGAGTCTTCTGATGCCA  
ACGAAAAAGTTGACGGCCCGGATCTCCAAGCAGTGGGCAGACATTGGTTTCCAAGGTGACGATCCAAAA  
CAGACTTCAGAGGCATGGGCATACTCGGACTGATCAATCTCGTGTATTTCAAGTAAAACTACACCAGCGA  
AGCGCATCAGATTCTCTCCCGCTCAAAATCACCCAAAATTAGGGTATTCTTATGCAATAGTTGGAATCAAC  
CTTACAGAGATGGCTTATAGCTTACTGAAGAGCGAGGCCCTGAAGCTTCACTCTACAATTTGTCCCTG  
GGTACCAACGATGGAGCACTCCACCAGTTTTACTGTTACCTTGCTATGAATTTGACAAGTTTTGGCT  
TGAGGAAGAGCCAGAAAGCATTATGTACTTCAACTGTACAGAGAGAAGTTTACGAGCGGATCAAAGGA  
CTCTTGATGGATTGCAATGCTGTGCTCACTTTGAAAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204034 protein sequence  
 Red=Cloning site Green=Tags(s)

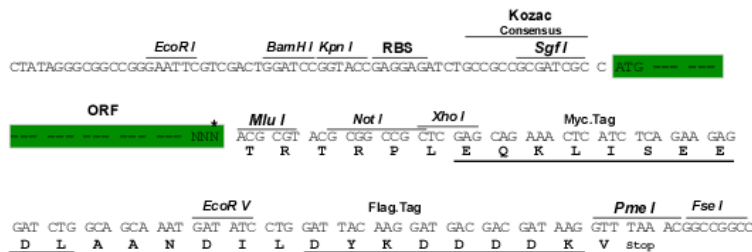
MFVSLWEFFYGHFFRFWMKWLRLQMTGKCELQRIFDYGGAQRTYRTENSLTYSKNKVLQNATRVAQSEL  
 DRCIANIMKEKNICSEKDTSFQICMRTCLLQITGYKQLYHDVENVRKKPYDSANAQHEKMLLKLWLLMP  
 TKKLTARISKQWADIGFQGDGPKTDFRGMGILGLINLVYFSENYTSEAHQILSRSNHPKLGYSYAIVGIN  
 LTEMAYSLLKSEALKLHLYNFVPGVPTMEHFHQFYCYLVYEFDFWLEEEEPESIMYFNLYREKFHERIKG  
 LLMDCNAVLTLKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001170691

**ORF Size:** 882 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\\_001170691.1](#), [NP\\_001164162.1](#)

**RefSeq Size:** 4704 bp

**RefSeq ORF:** 882 bp

**Locus ID:** 244548

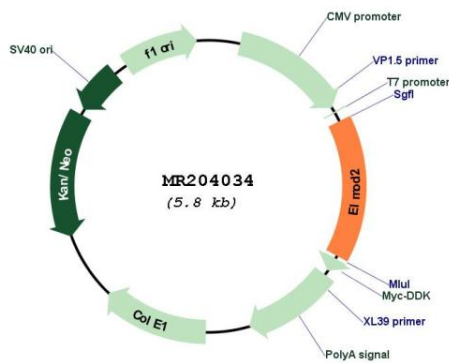
**UniProt ID:** [Q8BGF6](#)

**Cytogenetics:** 8 C2

**MW:** 34.7 kDa

**Gene Summary:** 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]

### Product images:



Circular map for MR204034