

Product datasheet for **MR224436**

Elmod1 (NM_177769) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Elmod1 (NM_177769) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Elmod1
Synonyms:	4831417L10; AI428506; AI834991
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224436 representing NM_177769 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCACTTCTGAGGATGTTGATCCAGGTGTGCCTGTATTTTTATTGTAAATTTTTGTGGCGCTGCA
TGAAGTTTGTGATGCGGAACTCACCGAAGGTGTGAAGTCAAAGGATTTGCTACGGCACCAAACCTGG
AGCTTCCAGAACCATGAAAATTGAAACGCTACTGAGAGATTCAAAAAGCAAGCTGTTGCAGACATCCGTG
AGTGTTCATCCTGATGCTATTGAAAAGACTATTGATGACATCATGGAATTGAAAAAATTAACCCCTGACA
TCAATCCACAGTTGGGGATCTCTCCAGGCTTGCCTCCTGCAAATCGTGGGTTACAGAAACCTCATTGC
AGATGTGGAAAACTGCGCAGAGAACCCATGATTCCGACAACCCCGAGCATGAAGAGATGCTTCTGAAG
CTATGGGAGCTCCTGAAGCCCAACTCCACTGGAGTCTCGGGTTTCAAGCAGTGGTGTGAGATCGGCT
TCCAAGGCGATGATCCGAAAACAGATTTCCGAGGAATGGGTCTTCTGGGACTTTACAATTTGCAATATT
TGCAGAACGGGATGCCACCGTGGCTCAGCAGGTCTCTCCGACTCTGTCCATCCAAAATGCAGCAAATTC
AGCAAAATAGAATGGGAAAAGAAAAGATGGATAAAGCCATTGGGTACTCCTTTGCAATTTGTGGGCATCA
ATATCACCGACCTGGCATATAATCTGCTCGTGAGCGCGCTCTAAAAACACACTTCTACAACATTGCCCC
CGAAGCTCCGACACTGTCTCACTTCCAACAAACATTCTGCTATTTGATGCACGAGTTTACAAGTTTTGG
ATTGAAGAGGACCCCATGGACATAATGGAGTTTAAATCGCGTGAGGGAGAAATCCGCAAGAGGATCATAA
AACAGCTGCAGAACCCAGATATGGCGCTGTGCCGCATTTTGTGCATCGGAAGTTTAAATCAACATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224436 representing NM_177769
Red=Cloning site Green=Tags(s)

MKHFLRMLIQVCLYFYCKFLWRCMKFVMRKL TGRCELQRICYGTPGASRTMKIETSLRDSKSKLLQTSV
 SVHPDAIEKTIDDIMELKKINPDINPQLGISLQACLLQIVGYRNLIADVEKLRRPEYSDNPQHEEMLLK
 LWELLPNTPLESRVSKQWCEIGFQGGDPKTD FRGMGLGLYLNLYFAERDATVAQVLSDSVHPKCSKF
 SKIEWEKKKMDKAIGYSFAIVGINITDLAYNLLVSGALKTHFYNI APEPTLSHFQQTFCYLMHEFHKFW
 IEEDPMDIMEFN RVREKFRKRIKQLQNPDMALCPHFAASEGLINM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9070_f12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177769

ORF Size: 978 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_177769.4](#), [NP_808437.2](#)

RefSeq Size: 2605 bp

RefSeq ORF: 981 bp

Locus ID: 270162

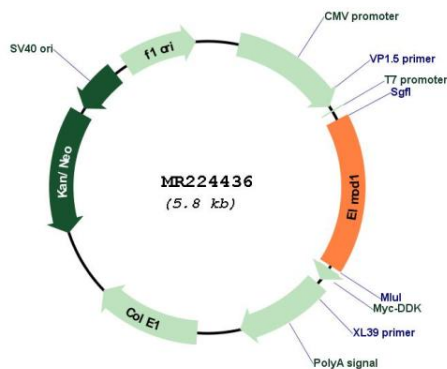
UniProt ID: [Q3V1U8](#)

Cytogenetics: 9 A5.3

MW: 38 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 MR224436