

Product datasheet for **MG217510**

Endov (NM_001164636) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endov (NM_001164636) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Endov
Synonyms:	A730011L01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217510 representing NM_001164636 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCACACGGCCGCTGAGCGGCCGCCAGAGGAAACCCTGTCGCTGTGGAAAGGGGAACAAGCCCGGC
TGAAAGCGCGGTGGTGGATCGGGACACGGAGGCCTGGCAGCGGGACCCAGCTTCTCGGGCCTGCAGAA
GGTCGGGGCGTGGATGTGTCCTTCGTGAAAGGGGACAGTGTCCGGGCCTGCGCTTCCCTGGTAGTGCTG
AGCTACCCCGAGCTCAAGGTGGTGTATGAGGACAGCCGCATGGTTGGCCTGAAGGCCCCCTATGTGTCAG
GCTTCCCTGGCCTCCGAGAGTCCCTTTCTGGTGGAGTTGGTACAGCGCTGCAAGAGAAGGAACCAGA
TCTCATGCCCCAGGTCGTTCTTGTGGATGGAAACGGGGTCTTACCAACGAGGCTTCGGGGTGGCCTGC
CACCTTGGTGTCTTACAGAGCTGCCATGCATCGGGTGGCCAAGAAGCTCCTGCAGGTGGATGGACTGG
AGAACAATGCTCTGCACAAGGAGAAGATTGTGCTCCTGCAGGCCGGAGGACACATTTCTCTGATAGG
CAGCTCTGGGACTGTCTGGGAATGGCCCTGAGGAGCCATGACCACAGCACCAAGCCCCTATGTCTCT
GTGGGCCACAGAATAAGCCTGGAGGTCGCTGTGCGCCTCACCCACCACTGCTGTAGGTTCCGGATCCCAG
AACCTATACGCCAGGCTGACATCCGCTCTCGAGAGTACATCCGAAGGACTTAGGGCAGCTTGGGGTGGC
TCCTGCACAGAGAAAGGACAGGAGCCAGAAAGAGCAGAGGCCAAATGCATGCCCCCAAGGAGGCCAGGA
GCACTTGCAGATCAAGGCAGGCCTCCTGAATGCGACGGCAGAGACTCCAGCTCAGACCGAAAGCCCCCG
AGCCAGGCTTCCAGGAGCAGAAGGACCAGCAGTTGGAGGGAACCGGCATCAGGAAGACTCGGACCTCTG
GCCTCCTTCTCCAGCCTGGGTACAGTCACCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217510 representing NM_001164636
 Red=Cloning site Green=Tags(s)

MAHTAAERPEETLSLWKGEQARLKARVVDRDTEAWQRDPSFSGLQKVGVDVSVFKGDSVRACASLVVL
 SYPELKVYYEDSRMVGLKAPYVSGFLAFREVPFLVELVQRLQEKEPDLMPQVVLVDGNGVLHQRGFGVAC
 HLGVLTEPCIGVAKLLQVDGLENNALHKEKIVLLQAGGDTFPLIGSSGTVLGMALRSHDHSTKPLYVS
 VGHRISLEVAVRLTHHCCRFRIPEPIRQADIRSREYIRRTLGLQLGVAPAQRKDRSQKEQRPNACPQGGPG
 ALADQGRPPEC DGRDSSSDRKAPEPGFQE QK DQ QLEGTGHQEDSDLWPPSPA W V Q S P P

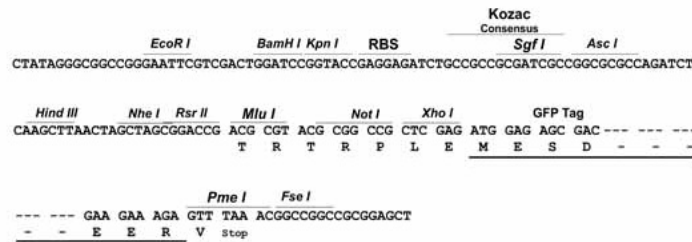
TRTRPLE - GFP Tag - V

Restriction Sites:

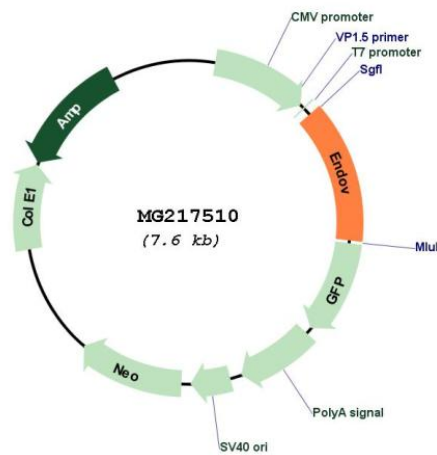
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001164636

ORF Size: 1014 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:	<ol style="list-style-type: none">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_001164636.1 , NP_001158108.1
RefSeq Size:	5112 bp
RefSeq ORF:	1017 bp
Locus ID:	338371
UniProt ID:	Q8C9A2
Cytogenetics:	11 E2
Gene Summary:	Endoribonuclease that specifically cleaves inosine-containing RNAs: cleaves RNA at the second phosphodiester bond 3' to inosine. Has strong preference for single-stranded RNAs (ssRNAs) toward double-stranded RNAs (dsRNAs). Cleaves mRNAs and tRNAs containing inosine. Also able to cleave structure-specific dsRNA substrates containing the specific sites 5'-IIUI-3' and 5'-UIUU-3'. Inosine is present in a number of RNAs following editing; the function of inosine-specific endoribonuclease is still unclear: it could either play a regulatory role in edited RNAs, or be involved in antiviral response by removing the hyperedited long viral dsRNA genome that has undergone A-to-I editing. Binds branched DNA structures (By similarity). [UniProtKB/Swiss-Prot Function]