

Product datasheet for MR203286

Endov (NM_177394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endov (NM_177394) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Endov
Synonyms:	A730011L01Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203286 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTGGCCTGAAGGCCCCCTATGTGTCAGGCTTCTGGCCTCCGAGAGGTCCCTTTCTGGTGGAGT
TGGTACAGCGGCTGCAAGAGAAGGAACCAGATCTCATGCCCCAGGTCGTTCTTGTGGATGAAACGGGGT
GCTTACCAACGAGGCTTCGGGGTGGCCTGCCACCTTGGTGTCTTACAGAGCTGCCATGCATCGGGTG
GCCAAGAAGCTCCTGCAGGTGGATGGACTGGAGAACAATGCTCTGCACAAGGAGAAGATTGTGCTCTGC
AGGCCGGAGGAGACACATTTCTCTGATAGGCAGCTCTGGGACTGTCCTGGGAATGGCCCTGAGGAGCCA
TGACCACAGCACCAAGCCCTCTATGTCTCTGTGGCCACAGAATAAGCCTGGAGGTCGCTGTGCGCCTC
ACCCACCACTGTGTAGGTTCCGGATCCCAGAACCTATACGCCAGGCTGCATCCGCTCTCGAGAGTACA
TCCGAAGGACTCTAGGGCAGCTTGGGGTGGCTCCTGCACAGAGAAAGGACAGGAGCCAGAAAGAGCAGAG
GCCAAATGCATGCCCCCAAGGAGGCCAGGAGCACTTGCAGATCAAGGCAGGCCTCCTGAATGCGACGGC
AGAGACTCCAGCTCAGACCGAAAGCCCCGAGCCAGGCTTCCAGGAGCAGAAGGACCAGCAGTTGGAGG
GAACCGGGCATCAGGAAGACTCGGACCTCTGGCCTCCTTCCAGCCTGGGTACAGTCACCAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203286 protein sequence
 Red=Cloning site Green=Tags(s)

MVGLKAPYVSGFLAFREVPFLVELVQRLQEKEPDLMPQVVLVDGNGVLHQRGFGVACHLGLVTEPCIGV
 AKKLLQVDGLENNALHKEKIVLLQAGGDTFPLIGSSGTVLGMALRSHDHSTKPLYVSVGHRISLEVAVRL
 THHCCRFRIPEPIRQADIRSREYIRRTLGLQLGVAPAQRKDRSQKEQRPNACPQGGPGALADQGRPPEC DG
 RDSSSDRKAPEPGFQE QKDQQL EGTGHQEDSDLWPPSPA WQSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_177394

ORF Size: 768 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_177394.3](#), [NP_796368.1](#)

RefSeq Size: 5164 bp

RefSeq ORF: 768 bp

Locus ID: 338371

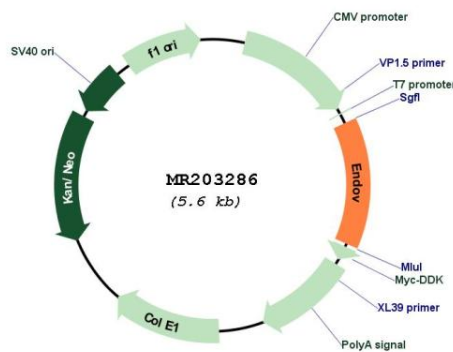
UniProt ID: [Q8C9A2](#)

Cytogenetics: 11 E2

MW: 28 kDa

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]

Product images:



Circular map for MR203286