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Product datasheet for MG203286

Endov (NM_177394) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endov (NM_177394) 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:	>MG203286 representing NM_177394 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGTTGGCCTGAAGGCCCCCTATGTGTCAGGCTTCCTGGCCTTCCGAGAGGTCCCTTTCCTGGTGGAGT TGGTACAGCGGCTGCAAGAGAAGGAACCAGATCTCATGCCCCAGGTCGTTCTTGTGGATGGAAACGGGGT GCTTCACCAACGAGGCTTCGGGGTGGCCTGCCACCTTGGTGTCCTTACAGAGCTGCCATGCATCGGGGTG GCCAAGAAGCTCCTGCAGGTGGATGGACTGGAGAACAATGCTCTGCACAAGGAGAAGATTGTGCTCCTGC AGGCCGGAGGAGACACATTTCCTCTGATAGGCAGCTCTGGGACTGTCCTGGGAATGGCCCTGAGGAGCCA TGACCACAGCACCAAGCCCCTCTATGTCTCTGTGGGCCACAGAATAAGCCTGGAGGTCGCTGTGCGCCTC ACCCACCACTGCTGTAGGTTCCGGATCCCAGAACCTATACGCCAGGCTGACATCCGCTCTCGAGAGTACA TCCGAAGGACTCTAGGGCAGCTTGGGGTGGCTCCTGCACAGAGAAAGGACAGGAGCCAGAAAGAGCAGAG GCCAAATGCATGCCCCCAAGGAGGCCCAGGAGCACTTGCAGATCAAGGCAGGCCTCCTGAATGCGACGGC AGAGACTCCAGCTCAGACCGGAAAGCCCCCGAGCCAGGCTTCCAGGAGCAGAAGGACCAGCAGTTGGAGG GAACCGGGCATCAGGAAGACTCGGACCTCTGGCCTCCTTCTCCAGCCTGGGTACAGTCACCACCC ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

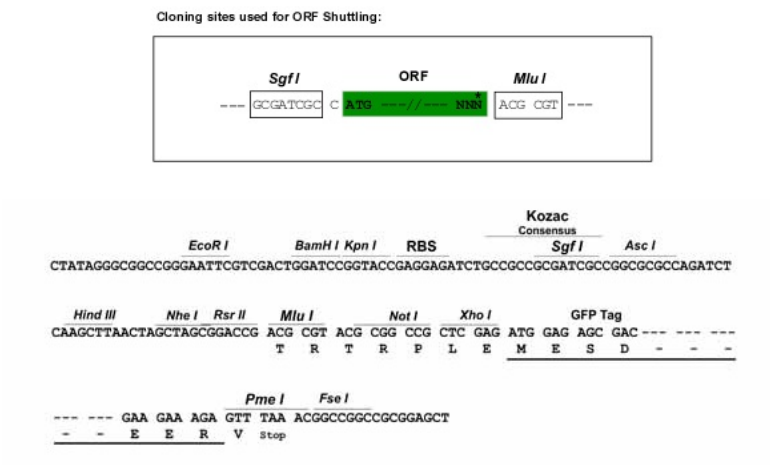
>MG203286 representing NM_177394
Red=Cloning site Green=Tags(s)

MVGLKAPYVSGFLAFREVPFLVELVQRLQEKEPDLMPQVVLVDGNGVLHQRGFGVACHLGVLTELPCIGV
AKKLLQVDGLENNALHKEKIVLLQAGGDTFPLIGSSGTVLGMALRSHDHSTKPLYVSVGHRISLEVAVRL
THHCCRFRIPEPIRQADIRSREYIRRTLGQLGVAPAQRKDRSQKEQRPNACPQGGPGALADQGRPPECDG
RDSSSDRKAPEPGFQEQKDQQLEGTGHQEDSDLWPPSPAWVQSPP

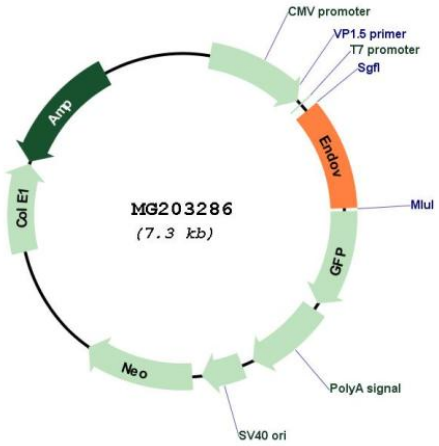
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_177394

ORF Size: 765 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:	5057 bp
RefSeq ORF:	768 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]