

## Product datasheet for **RG215740**

### Endonuclease V (ENDO V) (NM\_173627) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Endonuclease V (ENDO V) (NM_173627) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Endonuclease V
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215740 representing NM_173627 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGGAGGCGCGGGAGGGCCGCCGGAGGAAACGCTGTCCTGTGGAAACGGGAGCAAGCTCGGC  
TGAAGGCCACGTCGTAGACCGGGACACCGAGGCGTGGCAGCGAGACCCCGCCTTCTCGGGTCTGCAGAG  
GGTCGGGGGCGTTGACGTGTCTTCGTGAAAGGGGACAGTGTCCGCGCTTGTGCTTCCCTGGTGGTGCTC  
AGCTTCCCTGAGCTCGAGGTGGTGTATGAGGAGAGCCGCATGGTCAGCCTCACAGCCCCCTACGTGTCGG  
GCTTCCCTGGCCTCCGAGAGGTGCCCTTCTTGTGGAGCTGGTGCAGCAGCTGCGGAGAGAAGGACCCGGG  
CCTCATGCCCCAGGTCTTCTTGTGGATGGAAACGGGGTACTCCACCACCGAGGCTTGGGGTGGCCTGC  
CACCTTGGCGTCTTACAGACCTGCCGTGTGTTGGGGTGCCAAGAACTTCTGCAGGTGGATGGGCTGG  
AGAACAACGCCCTGCACAAGGAGAAGATCCGACTCCTGCAGACTCGAGGAGACTCATTCCCTCTGCTGGG  
AGACTCTGGGACTGTCTGGGAATGGCCCTGAGGAGCCACGACCGCAGCACCAGGCCCTCTACATCTCC  
GTGGGCCACAGGATGAGCCTGGAGGCCGCTGTGCGCCTGACTTGTGCTGCTGCAGGTTCCGGATCCAG  
AGCCCGTGCAGGCTGACATCTGCTCCCGAGAGCACATCCGCAAGTCGCTGGGACTCCCCGGGCCACC  
CACACCGAGGAGCCGAAGGCGCAGAGGCCAGTGGCATGCCCCAAGGAGACTCCGGAGAGTCTCAGCA  
CTTTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215740 representing NM\_173627  
Red=Cloning site Green=Tags(s)

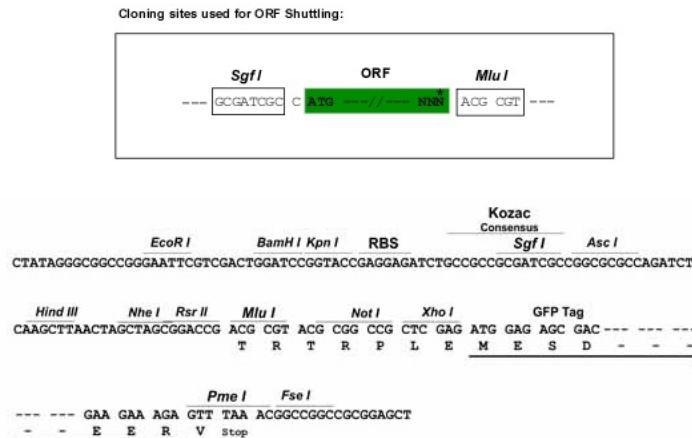
MALEAAGPPEETLSLWKREARLKAHVVDREAWQRDPAFSGLQRVGGVDVSVFKGDSVRACASLVVL  
 SFPELEVYEEESRMVSLTAPYVSGFLAFREVPFLLELVQQLREKEPGLMPQVLLVDGNGVLHHRFGVAC  
 HLGVLTDLPCVGVAKLLQVDGLENNALHKEKIRLLQTRGDSFPLLGDSGTVLGMALRSHDRSTRPLYIS  
 VGHRMSLEAAVRLTCCCCRFRIPVVRQADICSRHIRKSLGLPGPPTPRSPKAQRPVACPCKGDSGESSA  
 LC

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3066\\_b07.zip](https://cdn.origene.com/chromatograms/ja3066_b07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173627

**ORF Size:** 846 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\\_173627.5](#)

**RefSeq Size:** 2858 bp

**RefSeq ORF:** 849 bp

**Locus ID:** 284131

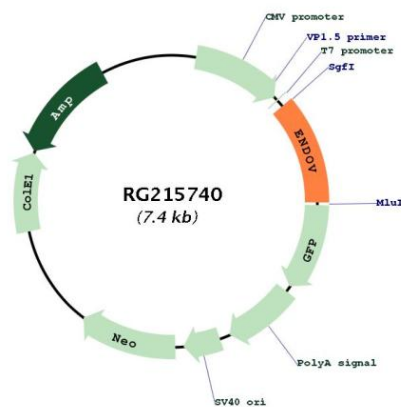
**UniProt ID:** [Q8N8Q3](#)

**Cytogenetics:** 17q25.3

**Protein Families:** Druggable Genome

**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.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG215740