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Product datasheet for SC327423

Endonuclease V (ENDOV) (NM_001164638) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endonuclease V (ENDOV) (NM_001164638) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endonuclease V
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001164638, the custom clone sequence may differ by one or more nucleotides ATGGCCCTGGAGGCGGCGGGAGGGCCGCCGGAGGAAACGCTGTCACTGTGGAAACGGGAG CAAGCTCGGCTGAAGGCCCACGTCGTAGACCGGGACACCGAGGCGTGGCAGCGAGACCCC GCCTTCTCGGGTCTGCAGAGGGTCGGGGGCGTTGACGTGTCCTTCGTGAAAGGGGACAGT GTCCGCGCTTGTGCTTCCCTGGTGGTGCTCAGCTTCCCTGAGCTCGAGGTCCTTCTTGTG GATGGAAACGGGGTACTCCACCACCGAGGCTTTGGGGTGGCCTGCCACCTTGGCGTCCTT ACAGACCTGCCGTGTGTTGGGGTGGCCAAGAAACTTCTGCAGGTGGATGGGCTGGAGAAC AACGCCCTGCACAAGGAGAAGATCCGACTCCTGCAGACTCGAGGAGACTCATTCCCTCTG CTGGGAGACTCTGGGACTGTCCTGGGAATGGCCCTGAGGAGCCACGACCGCAGCACCAGG CCCCTCTACATCTCCGTGGGCCACAGGATGAGCCTGGAGGCCGCTGTGCGCCTGACTTGC TGCTGCTGCAGGTTCCGGATCCCAGAGCCCGTGCGCCAGGCTGACATCTGCTCCCGAGAG CACATCCGCAAGTCGCTGGGACTCCCCGGGCCACCCACACCGAGGAGCCCGAAGGCGCAG AGGCCAGTGGCATGCCCCAAAGGAGACTCCGGAGAGTCCTCAGGTGAGGGCCAGCCCCCA CAGGACCACAGCCCAGGCCCCAGGACAGCCCCAAGGCCAGGCTCCCAGGAGCAGGCGGGC AAGGACTGGCAG
Restriction Sites:	Please inquire
ACCN:	NM_001164638
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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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_001164638.1, NP_001158110.1
RefSeq Size:	1288 bp
RefSeq ORF:	795 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] Transcript Variant: This variant (3) lacks an alternate in-frame exon in the central coding region and uses an alternate splice pattern in the 3' coding region and 3' UTR, compared to variant 1. The resulting isoform (3) lacks an internal segment and has a longer and distinc