

Product datasheet for SC319651

Endo G (ENDOG) (NM_004435) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endo G (ENDOG) (NM_004435) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endo G
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>>OriGene sequence for NM_004435.2</p> <pre>GGGGAAATGCGCAAAGAAAGGACGCCGGGACACCCGGTGGGCTCTGCTGCTCCCTTCT GGGTTCCGAGGCCAAGCCCTTGGCAGTGTGGTGTGAGTGAAGGGAGGTCACGCTATCGT CCGCGGCCCCAGCAGCCCTGTGCCCTCGTTGGATCCCGCGACGCGGCTCCTTTAAGAGCC TCGCGGGTCGCCCCGCCGTAGGTCGCTCCCCGGCCATGCGGGCGCTGCGGGCCGGCTGA CCCTGGGCTTGGGCGCGGGGCTGGGTGCGGTCGTGAGGGCTGGCGGGCGGGCGGGAGG ACGCGCGGGCGGGCGCGGGACTGCTGGGCGGGTGCCTCGTGCCTGGCGGGCGGGCGGGAGG CCGAGTTGCCCTGTGCCCGGGGACCCCGGGCCCGGGCGAGCTGGCCAAGTACGGGC TGCCGGGGCTGGCGCAGCTCAAGAGCCGCGAGTCGTACGTGCTGTGCTACGACCCGCGCA CCCGCGGGCGGCTCTGGGTGGTGGAGCAGCTGCGACCCGAGCGTCTCCGCGGGCGACGGCG ACCGCGCGGAGTGCAGCTTCCGCGAGGACGACTCGGTGCACGCGTACCACCGTGCCACCA ACGCCGACTACCGCGCAGTGGCTTCGACCGCGGTCACCTGGCCGCCCGCCCAACCACC GCTGGAGCCAGAAGGCCATGGACGACACGTTCTACCTGAGCAACGTCGCGCCCCAGGTGC CCCACCTCAACCAGAATGCCTGGAACAACCTGGAGAAATATAGCCGAGCTTGACCCGCA GCTACAAAACGTCTATGTCTGCACAGGGCCACTTCTCCTGCCAGGACAGAGGCTGATG GGAAATCCTACGTAAAGTACCAGGTCATCGGCAAGAACCAGTGGCAGTGCCACACACT TCTTCAAGGTGCTGATCCTGGAGGCAGCAGGTGGGCAAATTGAGCTCCGCACCTACGTGA TGCCCAACGCACCTGTGGATGAGGCCATCCCACTGGAGCGCTTCTGGTGCCATCGAGA GCATTGAGCGGGTTCGGGGCTGCTCTTTGTGCCAAACATCCTGGCGGGCAGGCAGCC TCAAGGCCATACGGCGGGCAGTAAGTGAGGGTGGAGCCAGTGAGACTGTGGGTGTGTG CAGGCCGGGAGTATTAAGGTGGTGAATTTTGGACAAAAAAAAAAAAAAAAAAAAAAAAA AAAAA</pre>
Restriction Sites:	Please inquire
ACCN:	NM_004435



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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.
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:	<u>NM_004435.2</u> , <u>NP_004426.2</u>
RefSeq Size:	1145 bp
RefSeq ORF:	894 bp
Locus ID:	2021
UniProt ID:	<u>Q14249</u>
Cytogenetics:	9q34.11
Domains:	Endonuclease
Protein Families:	Druggable Genome
Protein Pathways:	Apoptosis
Gene Summary:	The protein encoded by this gene is a nuclear encoded endonuclease that is localized in the mitochondrion. The encoded protein is widely distributed among animals and cleaves DNA at GC tracts. This protein is capable of generating the RNA primers required by DNA polymerase gamma to initiate replication of mitochondrial DNA. [provided by RefSeq, Jul 2008]