

Product datasheet for SC118900

Endothelin 1 (EDN1) (NM_001955) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin 1 (EDN1) (NM_001955) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDN1
Synonyms:	ARCND3; ET1; HDLCQ7; PPET1; QME
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC118900 sequence for NM_001955 edited (data generated by NextGen Sequencing) ATGGATTATTTGCTCATGATTTTCTCTGCTGTTTGTGGCTTGCCAAGGAGCTCCAGAA ACAGCAGTCTTAGGCGCTGAGCTCAGCGCGGTGGGTGAGAACGGCGGGGAGAAACCCACT CCCAGTCCACCCTGGCGGCTCCGCCGGTCCAAGCGCTGCTCCTGCTCGTCCCTGATGGAT AAAGAGTGTGTCTACTTCTGCCACCTGGACATCATTTGGGTCAACACTCCCAGCACGTT GTTCCGTATGGACTTGAAGCCCTAGGTCCAAGAGAGCCTTGAGAAATTTACTTCCCACA AAGGCAACAGACCGTGAGAATAGATGCCAATGTGCTAGCCAAAAAGACAAGAAGTGTGG AATTTTTGCCAAGCAGGAAAAGAACTCAGGGCTGAAGACATTATGGAGAAAGACTGGAAT AATCATAAAGAAAGAAAAGACTGTTCCAAGCTTGGGAAAAAGTGTATTTATCAGCAGTTA GTGAGAGGAAAGAAAATCAGAAGAAGTTCAGAGGAACACCTAAGACAAACCAGGTCGGAG ACCATGAGAAACAGCGTCAAATCATCTTTTCATGATCCCAAGCTGAAAGGCAAGCCCTCC AGAGAGCGTTATGTGACCCACAACCGAGCACATTGGTGA Clone variation with respect to NM_001955.4 318 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001955 unedited
 CTCCGTAACCCCGCCCGTTGNCGCAAAGGGCGGTAGGCGGTGACGGTGGGAGGTCTATAT
 AAGCAGAGCTCATTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGC
 CGCGAATTCGGCACGAGGCATCTGCGCCAGGCGAACGGGTCTGCGCCTCCTGCAGTCCC
 AGCTCTCCACCGCCGCGTGCCTGCAGACGCTCCGCTCGCTGCCTTCTCCTGGCAGG
 CGCTGCCTTTTCTCCCGTTAAAGGGCACTTGGGCTGAAGGATCGCTTTGAGATCGAGG
 AACCCGCAGCGCTTTGAGGGACCTGAAGCTGTTTTCTTCGTTTTCCCTTTGGGTTTCAGTT
 TGAAACGGGAGGTTTTGATCCCTTTTTTTCAGAATGGATTATTTGCTCATGATTTTCTCT
 CTGCTGTTTGTGGCTTGCCAAGGAGCTCCAGAAACAGCAGTCTTAGGCGCTGAGCTCAGC
 GCGGTGGGTGAGAACGGCGGGGAGAAACCCACTCCCAGTCCACCCTGGCGGCTCCGCCGG
 TCCAAGCGCTGCTCCTGCTCGTCCCTGATGGATAAAGAGTGTGTCTACTTCTGCCACCTG
 GACATCATTTGGGTCAACACTCCCAGCACGTTGTTCCGTATGGACTTGGAAAGCCCTAGG
 TCCAAGAGAGCCTTGGAGAATTTACTTCCCACANAGGCAACAGACCGTGAGAATAGATGC
 CAATGTGCTAGCCAAAAGACAAGAAGTGTGGAATTTTTGCCAAGCAGGAAAAGAACTCA
 GGCTGAAGACATTATGGAGAAAGACTGGANNNTATCATAGANAGGAANAGACTGTTCCC
 AGCTTNGAAAAAGTGTATNTATCAGCAGTTAGTGAGAGGAAGAAAATCAGAAGAAAGTC
 AGAGGACCACCTAGACAAACAGGTTCGNAGACATGAGAACAGCGTCAATCT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001955 unedited
 TGGAGGAAGGGGCTCACAGGCGATGCCACCCGGTATCTGTTTCAGGAAAACAGCTATGAC
 CGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTTACTTGCATGTTTGC
 TTTTGAGTGTGTTTTCAATTTGTGCATTCTTAAAAAATCTTTGTGTGGACTTTGGATTT
 TCTCCCTGAAATGTGCCAGGCGCCTGATTCAAACACAAACTCCCTTAAGACCTTCGTC
 AAAAATCCACCCTGTGTGGAATCTCCTTCTCTCTCTCTCCGGAGAGATGCCACCC
 GAATTCAAATGTGACTGTGTGTTTCTGCTGAGAGGTCCATTGCTCCTCCAGATGAAAGA
 AGAGACCAAAGCACTTACCACTGATGGAAGCCAGTGAATATGGTTGGGGAACTCCTTAA
 CCTTTCTTGAATGTTTTGAACGAGGACGCTGGTCTTTGCCAGTCAGGAACCAGCAGAG
 GATGCTCCTGCTCTGATCCCAGCCAGGGTGGAGAGTGCAGATTCGGCCACAGGGCTCCTC
 GTGGAGGCTATGGCTTCAGACAGGCCCCGAAGGTCTGTCACCAATGTGCTCGGTTGTGGG
 TCACATAACGCTCTCTGGAGGGCTTGCCTTTCAGCTTGAGATCATGAAAAGATGATTTGA
 CGCTGTTTCTCATGGTCTCCGACCTGGTTTGTCTTAGGTGTTCTCTGAACTTCTTCTGA
 TTTTCTTCTCTCACTAACTGCTGATAAATACTTTTTCCCAAGCTTGGAAACAGTCTT
 TTCCTTTCATATGATTATCCAGTCTTCTCCATATAGTCTCAGCCCTGATTTCTTCTCT
 GCTTGGCAAAAATCCANCCCTTCTGTCTTTTTGGCTACACATTGAA

Restriction Sites:

NotI-NotI

ACCN:

NM_001955

Insert Size:

1550 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

RefSeq: [NM_001955.2](#), [NP_001946.2](#)

RefSeq Size: 1334 bp

RefSeq ORF: 639 bp

Locus ID: 1906

UniProt ID: [P05305](#), [Q6FH53](#)

Domains: END

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Melanogenesis

Gene Summary: This gene encodes a preproprotein that is proteolytically processed to generate a secreted peptide that belongs to the endothelin/sarafotoxin family. This peptide is a potent vasoconstrictor and its cognate receptors are therapeutic targets in the treatment of pulmonary arterial hypertension. Aberrant expression of this gene may promote tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).