

## Product datasheet for **SC322339**

### 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:	Endothelin 1
Synonyms:	ARCND3; ET1; HDLCQ7; PPET1; QME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;OriGene sequence for SC322339</p> <pre>CGCCGCGTGCGCCTGCAGACGCTCCGCTCGCTTCCTCTCCTGGCAGGCGCTGCCTTT TCTCCCGTTAAAGGGCACTTGGGCTGAAGGATCGCTTTGAGATCTGAGGAACCCGAGC GCTTTGAGGGACCTGAAGCTGTTTTTCTCGTTTTCTTTGGGTTCAAGTTGAACGGGAG GTTTTGATCCCTTTTTTTCAGAATGGATTATTTGCTCATGATTTTCTCTGCTGTTTTG TGGCTTGCCAAGGAGCTCCAGAAACAGCAGTCTTAGGCGCTGAGCTCAGCGCGGTGGGTG AGAACGGCGGGGAGAAACCCACTCCCAGTCCACCCTGGCGGCTCCGCCGGTCCAAGCGCT GCTCCTGCTCGTCCCTGATGGATAAAGAGTGTGTCTACTTCTGCCACCTGGACATCATT GGGTCAACACTCCCGAGCAGTGTTCGTATGGACTTGAAGCCCTAGGTCCAAGAGAG CCTTGGAGAATTTACTTCCACAAAGGCAACAGACCGTGAGAATAGATGCCAATGTGCTA GCCAAAAGACAAGAAGTCTGGAATTTTTGCCAAGCAGGAAAAGAACTCAGGGCTGAAG ACATTATGGAGAAAGACTGGAATAATCATAAGAAAGGAAAAGACTGTTCCAAGCTTGGGA AAAAGTGTATTTATCAGCAGTTAGTGAGAGGAAGAAAAATCAGAAGAAGTTCAGAGGAAC ACCTAAGACAAACCAGGTCGGAGACCATGAGAAACAGCGTCAAATCATCTTTTCATGATC CCAAGCTGAAAGGCAATCCCTCCAGAGAGCGTTATGTGACCCACAACCGAGCACATTGGT GACAGACCTTCGGGGCCTGTCTGAAGCCATAGCCTCCACGGAGAGCCCTGTGGCCGACTC TGCACTCTCCACCCTGGCTGGGATCAGAGCAGGAGCATCCTCTGCTGGTTCCTGACTGGC AAAGGACCAGCGTCCCTCGTTCAAACATTCCAAGAAAGGTTAAGGAGTTCCTCCCAACCAT CTTCACTGGCTTCCATCAGTGGTAACTGCTTTGGTCTCTTTTCATCTGGGGATGACAA TGGACCTCTCAGCAGAAACACACAGTCACATTGCAATTCGGGTGGCATCCTCCGGAGAGA GAGAGAGGAAGGAGATTCACACAGGGGTGGAGTTTCTGACGAAGGTCTAAGGGAGTGT TTGTGTCTGACTCAGGCGCTGGCACATTTAGGGAGAACTCCAAAGTCCACACAAAGA TTTTCTAAGGAATGCACAAATTGAAAACACACTCAAAGACAAACATGCAAGTAAAGAAA AAAAAAAAAAAAA</pre>
Restriction Sites:	Please inquire



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<b>ACCN:</b>	NM_001955
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001955.2</a> , <a href="#">NP_001946.2</a>
<b>RefSeq Size:</b>	1334 bp
<b>RefSeq ORF:</b>	639 bp
<b>Locus ID:</b>	1906
<b>UniProt ID:</b>	<a href="#">P05305</a>
<b>Cytogenetics:</b>	6p24.1
<b>Domains:</b>	END
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	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).