

Product datasheet for **SC110001**

Endothelin 3 (EDN3) (NM_000114) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin 3 (EDN3) (NM_000114) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endothelin 3
Synonyms:	ET-3; ET3; HSCR4; PPET3; WS4B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110001 sequence for NM_000114 edited (data generated by NextGen Sequencing)

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ATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCTCACAGTGACCTCCGCCGAGGATTCGTG
CCTTGCTCCCAGTCTGGGGATGCTGGCAGGCGCGCGTGTCCCAGGCCCCCACTGCAGCC
AGATCTGAGGGGACTGTGAAGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGC
CCTGGCGAGGGGACTGTGGCCCCGACAGCACTGCAGGGTCCAAGCCCTGGAAGCCCTGGG
CAGGAGCAGGCGCCGAGGGGGCCCTGAGCACCACCGATCCAGGCGCTGCACGTGCTTC
ACCTACAAGGACAAGGAGTGTGTCTACTATTGCCACCTGGACATCATTTGGATCAACACT
CCCGAACAGACGGTGCCTATGGACTGTCCAACACAGAGGAAGCTTCCGGGGCAAGAGG
TCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGGCTGCGCT
TGTGTGGGGAGATATGACAAGGCCTGCCTGCACCTTTTGCACCCAAACTCTGGACGTCAGC
AGTAATTC AAGGACGGCAGAAAAACAGACAAAGAAGAGGAAGGGAAGGTTGAAGTCAAG
GACCAACAAAGCAAGCAGGCTTTAGACCTCCACCATCCAAGCTCATGCCCGGCAGTGGG
CTCGCCCTCGCTCCATCTACCTGCCCCGCTGCCTCTTTCAGGAAGGAGCCCTTAG
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Clone variation with respect to NM_000114.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000114 unedited
 GTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCTCCTCTGGTCCGG
 TGCTCCGGCGCCTGATCTAGGTTTCATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCTCACA
 GTGACCTCCGCCGAGGATTCGTGCCTTCTCCAGTCTGGGGATGCTGGCAGGCCGGC
 GTGTCCCAGGCCCCACTGCAGCCAGATCTGAGGGGACTGTGAAGAGACTGTGGCTGGC
 CCTGGCAGGAGACTGTGGCTGGCCCTGGCGAGGGGACTGTGGCCCGACAGCACTGCAG
 GGTCCAAGCCCTGGAAGCCCTGGCAGGAGCAGGCGGCCGAGGGGGCCCTGAGCACCCAC
 CGATCCAGGCGCTGCACGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTGCCAC
 CTGGACATCATTGGATCAACACTCCCGAACAGACGGTGCCTATGGACTGTCCAACACTAC
 AGAGGAAGCTTCCGGGGCAAGAGGTCTGCGGGGCCACTCCAGGGAATCTGCAGCTCTCA
 CATCGGCCACACTTGGCTGCGCTTGTGTGGGAGATATGACAAGGCTGCTGCCTGCACTTT
 TGCACCCAACTCTGGACGTGAGCAGTAATTCAAGGACGGCAGAAAAACAGACAAAGAA
 GAGGAAGGAAGACAGGTTGAAGTCAAGGACCAACATAGCAAGCAGGCTNNTAGACCTNC
 ACCATCCAAAGCTCATGCCCGGAGTGGACTCGCCCTCGCTCCATCTACCTGCCCNCGCT
 GCCTCTTCAAGGAAGGACCCNCTTAGAGGACAGGCTGCAGCATCCTGGTCTCGGGGA
 GGCTTCTGTATTGCTCACAAACAGTTCCAGATTTCCACTCTTTTAGACAGAAGTGATTGCT
 GGGCGCGGCAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000114 unedited
 TAGCTTTGGACCGGCGCCGAATCTAGGATCGAGGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTCAAACCTTTAGGTTTTTATTAGGCTTTTGACAGTACTTTCTGAGTATTTGAGCAAT
 TGAGGGGTTTCTTTGATACCATCTTGCCACGGGGCCAAACAGCACATATGCATTTTAA
 AAATGTAATTCAGCTCTAAGGAGTATGAGTTTGTATTCAAATGCAATTTAAAATCTAC
 CTACCTATCTACCTTTTATACGTATATACAGGGACTACTTTGAACAGATCCACATAAAG
 GAGTTGGAGGGGAAAACAGTTTCAATAAATAATCGTTTCTTTAACTGTACAAAATCC
 TACCAGCAAATCAGCCACTTTCATTTCCCTCATGATAGGTCATCACTTTTATACCTGTAAT
 ACCTTATGAAATACACACAGAGGATTTAACATTTGGTCAAGGCCAATGCTCTGTCATACA
 CCATCTTAAATGTCTCTCTACGGGGCCCTGGACACCCACTCAAATGCCGTTTCTATCTC
 TCTGTGACTGGTTGGGGAGATGGCAGCCCTCCCCTGCCAGGGCAGTTTACATGGGGG
 GATAACATCTCCACACTCACAGTAAGCTCGGCTCGGTGGGAAAAGCGCAGCTGAAAGAGA
 TTTTGAAGTGTCAAACGGTATAAGTTGTTGCCAATTTATATAAACAGGAATTTACATAAT
 TTACAAAGAAATTTGTGTTGCTGACTTATTTTGAAGCCATTTCCCAAAGATCCACATTTAC
 TCATGAAAGCAAATATTCAACCTAATAGCCTTGAGCTGNGGCTGTCTTTAAGTCGGCTCC
 TGCAAACAGGCTGNGAACTCACTGTGTATCGCCTGTGCCTATCAGATACAGAGGTCAGCC
 CTGACAGAACAGCCTGNATGCAGTCTACTTCTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_000114

Insert Size:

2440 bp

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).

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_000114.2](#), [NP_000105.1](#)

RefSeq Size: 2438 bp

RefSeq ORF: 717 bp

Locus ID: 1908

Cytogenetics: 20q13.32

Domains: END

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: The protein encoded by this gene is a member of the endothelin family. Endothelins are endothelium-derived vasoactive peptides involved in a variety of biological functions. The active form of this protein is a 21 amino acid peptide processed from the precursor protein. The active peptide is a ligand for endothelin receptor type B (EDNRB). The interaction of this endothelin with EDNRB is essential for development of neural crest-derived cell lineages, such as melanocytes and enteric neurons. Mutations in this gene and EDNRB have been associated with Hirschsprung disease (HSCR) and Waardenburg syndrome (WS), which are congenital disorders involving neural crest-derived cells. Altered expression of this gene is implicated in tumorigenesis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]
Transcript Variant: This variant (1) encodes the longest isoform (1).