

Product datasheet for **SC324408**

Endothelin 3 (EDN3) (NM_207034) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin 3 (EDN3) (NM_207034) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endothelin 3
Synonyms:	ET-3; ET3; HSCR4; PPET3; WS4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_207034.1
 CGCTGTCTGGGTGCGCCTCGGGCCGCTGCGCTCTGGCCAGCTCCCCCAGCGCCTGGG
 AGGCGACCCCCAGTGCGCCCGGGTTCAAAGGCCCGGCGAGGCAGTTCAGCCCCTCTGGG
 GGGCGGGAGGGCAGCGGGGTGGTGCAGAAGCCAGAAAAGCCCGAGCCACAGCCGGCCAG
 CTCCGCGCAGGGATGGGCAGCGCCTCTGAAAGTTTATGACCCCGCAGCCAACCTCTGG
 CCGGAGCTGGAGACGCAGCGAGCGATCGGCCGGCCTCGAACCCCAACAGCTGGAGGGCGA
 GGCCAGCTGTACCCGGCCCCAGTGCCCTTTCGCGGCCACAAGCGGCCGCTCCTCTGGTCC
 GGTGCTCCGGCGCCTGATCTAGGTTTCATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCTCA
 CAGTGACCTCCGCGCAGGATTCTGTCCTTGTCCCAGTCTGGGATGCTGGCAGGCGCG
 GCGTGTCCAGGCCCCACTGCAGCCAGATCTGAGGGGACTGTGAAGAGACTGTGGCTG
 GCCCTGGCGAGGAGACTGTGGCTGGCCCTGGCGAGGGGACTGTGGCCCCGACAGCACTGC
 AGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGAGGGGGCCCTGAGCACC
 ACCGATCCAGGCGCTGCACGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTGCC
 ACCTGGACATCATTTGGATCAACACTCCCGAACAGACGGTGCCCTATGGACTGTCCAAC
 ACAGAGGAAGCTTCGGGGCAAGAGGTCTGCGGGGCCACTTCCAGGAATCTGCAGCTCT
 CACATCGGCCACACTTGGCTGCGCTTGTGTGGGAGATATGACAAGGCCTGCCTGCACT
 TTTGCACCCAAACTCTGGACGTACGAGTAATTCAAGGACGGCAGAAAAACAGACAAAAG
 AAGAGGAAGGGAAGTTGAAGTCAAGGACCAACAAGCAAGCAGGCTTTAGACCTCCACC
 ATCCAAAGCTCATGCCCGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCCGCTGCC
 TCTTTCAGGAAGGAGCCCTTAGGAGGACAGGCCCTGCAGCATCTGGTCTCGGGAGGCTT
 CTGTCAATTGCTCACACACAGTTCAGATTTCCACCTTTTATAGACAAGAAGTGAATTTGC
 CTGGGGCAGAACCACCCAAAGAGTCCCACCTTAACAATACCCCCCCCCACGGCAAG
 AATGCCCAAATCCGAATGACCCAGTTTTCTAATGAGTAAAATGATCCCAGATGTGCC
 CAGAGCATGACGCTGCAGCTCCGGTTTCATGCAGGAAATGGTTTTGGAGAGTTTTGGC
 AAGTTGGAAGCCACTTACTGGCTTTTGACATGACTTCTCTTGGAGAATAAGTGGACTCC
 AAGCTAACTTTGCAAATGTAACACATGTCCATCTTGTAAATAATGCAAAATGCCCGT
 GCAGCAGAAGCATGCGACTTTCATATCCTTGCCTAGAATAGGCTGCATGGTGTATGTCAG
 TGAGGGCCACGAGGCGTGGCTTTAGACACAGATCATAGCTCTACAGGAGTTTATGAATT
 TGAAGCTTATGGGATTTTGGCAGAGAAATTTTCAGCTGTGCTTGATACCCACCAAAGAA
 TGTATCTCGAAAGAATGAAGGAAGAAGAAAAAGGATCCTTGATGTTTGTGACAAGAAAA
 TGAGAAAGTTAGTATCTGCAATACAGAGCTTGTTCCTGTTCAAGTACTGACCCCTGTAT
 TCTGTATAGACACCAGGCCGATACACAGTGGAGTCCCAGGCCTTGTTTGCAGGAAGCCG
 ACTGTAAGACAGCCCCAGCTCAAGGCTATTAGGTTGAATATTTGCTTTCATGAGTAAAT
 GTGGATCTTTGGGAATGGCTTCAAAATAAGTCACGAACACAAATCTTTGTAATTTATG
 TAAATTCCTGTTTATATAAATGGCAACAACCTTATACCGTCTGACAGTTCAAAATCTCTT
 TCAGCTGCGCTCTTCCCACCGAGCCGAGCTTACTGTGAGTGTGGAGATGTTATCCCACCA
 TGTAAGTTCGCTGCGCAGGGGAGGGCTGCCATCTCCCCAACCCAGTACAGAGAGATA
 GGAAACGGCATTGAGTGGGTGTCCAGGGCCCCGTAGAGAGACATTTAAGATGGTGTATG
 ACAGAGCATTGGCCTTGACCAAATGTTAAATCCTCTGTGTGATTTTATAAGTTATTACA
 GGTATAAAAGTGATGACCTATCATGAGGAAATGAAAGTGGCTGATTTGCTGGTAGGATTT
 TGTACAGTTTAGAGAAGCGATTATTTATTGTGAAACTGTTCTCCACTCCAACCTCCTTTAT
 GTGGATCTGTTCAAAGTAGTCACTGTATATACGTATAGAGAGGTAGATAGGTAGGTAGAT
 TTTAAATGCAATCTGAATACAACTCATACTCCTTAGAGCTTGAATTACATTTTTAAAA
 TGCATATGTGCTGTTTGGCACCGTGGCAAGATGGTATCAGAGAGAAACCCATCAATTGCT
 CAAATACTCAGAAAGTACTGTCAAAGCCTAATAAAAAACCTAAAGTTTGCTCTGAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_207034

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_207034.1</u> , <u>NP_996917.1</u>
RefSeq Size:	2659 bp
RefSeq ORF:	717 bp
Locus ID:	1908
UniProt ID:	<u>P14138</u>
Cytogenetics:	20q13.32
Protein Families:	Druggable Genome, Secreted Protein
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) encodes the longest isoform (1).</p>