

## Product datasheet for **SC334389**

### Endothelin 3 (EDN3) (NM\_001302455) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin 3 (EDN3) (NM_001302455) Human Untagged Clone
Tag:	Tag Free
Symbol:	EDN3
Synonyms:	ET-3; ET3; HSCR4; PPET3; WS4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001302455, the custom clone sequence may differ by one or more nucleotides

```
ATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCTCACAGTGACCTCCGCCGAGGATTTCGTGCCTTGCTCCC  
AGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCCAGGCCCCACTGCAGCCAGATCTGAGGGGACTGTGA  
AGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCCTGGCGAGGGGACTGTGGCCCGACAGCA  
CTGCAGGGTCCAAGCCCTGGAAGCCCTGGGCAGGAGCAGGCGGCCGAGGGGGCCCTGAGCACCACCGAT  
CCAGGCGCTGCACGTGCTTCACCTACAAGGACAAGGAGTGTGTCTACTATTGCCACCTGGACATCATTTG  
GATCAACTCCCGAACAGACGGTGCCTATGGACTGTCCAACACAGAGGAAGCTTCCGGGGCAAGAGG  
TCTGCGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTGTGTGGGGA  
GATATGACAAGGCTGCCTGCCTTTTGCACCCAACTCTGGACGTCAGCAGTAATCAAGGACGGCAGA  
AAAAACAGACAAAGAAGAGGAAGGAAGACAGGTTGA
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001302455
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).



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**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\\_001302455.1](#), [NP\\_001289384.1](#)

**RefSeq Size:** 2680 bp

**RefSeq ORF:** 597 bp

**Locus ID:** 1908

**UniProt ID:** [P14138](#)

**Cytogenetics:** 20q13.32

**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 (5) uses an alternate splice site in the 3' terminal exon, which results in a frameshift and an early stop codon, compared to variant 4. The encoded isoform (4) is shorter and has a distinct C-terminus, compared to isoform 1.