

## **Product datasheet for RC203410**

## 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

CN: techsupport@origene.cn

OriGene Technologies, Inc.

## Endothelin 3 (EDN3) (NM\_207034) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: Endothelin 3 (EDN3) (NM\_207034) Human Tagged ORF Clone

Tag: Myc-DDK
Symbol: Endothelin 3

Synonyms: ET-3; ET3; HSCR4; PPET3; WS4B

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >RC203410 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA





**Protein Sequence:** >RC203410 protein sequence

Red=Cloning site Green=Tags(s)

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTA LQGPSPGSPGQEQAAEGAPEHHRSRRCTCFTYKDKECVYYCHLDIIWINTPEQTVPYGLSNYRGSFRGKR SAGPLPGNLQLSHRPHLRCACVGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEEGKVEVKDQQSKQALDL HHPKLMPGSGLALAPSTCPRCLFQEGAP

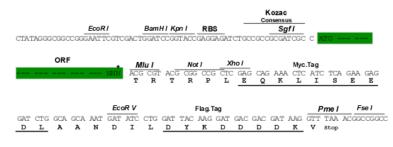
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV** 

Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6414">https://cdn.origene.com/chromatograms/mk6414</a> f04.zip

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_207034

ORF Size: 714 bp

OTI Disclaimer: 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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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:** <u>NM 207034.3</u>

 RefSeq Size:
 2659 bp

 RefSeq ORF:
 717 bp

 Locus ID:
 1908

 UniProt ID:
 P14138

 Cytogenetics:
 20q13.32

**Protein Families:** Druggable Genome, Secreted Protein

**MW:** 25.5 kDa

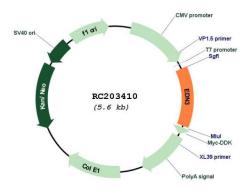
**Gene Summary:** The protein encoded by this gene is a member of the endothelin family. Endothelins are

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

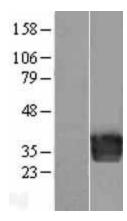
isoforms. [provided by RefSeq, Oct 2014]



## **Product images:**



Circular map for RC203410



Western blot validation of overexpression lysate (Cat# [LY400036]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220053] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).