

Product datasheet for **RC236031**

Endothelin 2 (EDN2) (NM_001302269) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Endothelin 2 (EDN2) (NM_001302269) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: EDN2
Synonyms: ET-2; ET2; PPET2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236031 representing NM_001302269
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTCCCGTGCCTACCACCTGGTGCCTCCGTTGCGCTAGCCCTGCTCGTGGCCCTGCATGAAGGGAAGG
GCCAGGCTGCTGCCACCCTGGAGCAGCCAGCGTCTCATCTCATGCCAAGGCACCCACCTTCGGCTTCG
CCGTTGCTCCTGCAGCTCCTGGCTCGACAAGGAGTGCCTACTTCTGCCACTTGGACATCATCTGGGTG
AACACTCCTGAACAGACAGCTCCTTACGGCCTGGGAAACCGCCAAGACGCCGGCCGCTCCCTGCCAA
GGCGTGTGAGTGTCCAGTCCAGTCCAGGGACCCCGCTGTGCCACCTTCTGCCTTCGAAGGCCCTGGGACAT
TTCCACAGTCAAGAGCCTCTTTCGAAGCGACAACAGGAGGCCATGCGGGAGCCTCGGTCCACACATTCC
AGGTGGAGGAAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236031 representing NM_001302269
Red=Cloning site Green=Tags(s)

MVSVPTTWCSVALALLVALHEGKGQAAATLEQPASSSHAQGTHLRLRRCSSWLDKECVYFCHLDIIWV
NTPEQTAPYGLGNPPRRRRRSLPRRCQCSSARDPACATFCLRRPWDISTVKSLFAKMQEAMREPRSTHS
RWRKR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

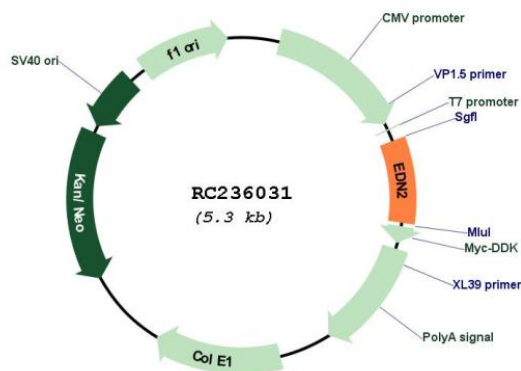


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001302269

ORF Size: 435 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:	<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:	NM_001302269.2
RefSeq Size:	1168 bp
RefSeq ORF:	438 bp
Locus ID:	1907
UniProt ID:	P20800
Cytogenetics:	1p34.2
Protein Families:	Druggable Genome, Secreted Protein
MW:	17 kDa
Gene Summary:	This gene encodes a member of the endothelin protein family of secretory vasoconstrictive peptides. The preproprotein is processed to a short mature form which functions as a ligand for the endothelin receptors that initiate intracellular signaling events. This gene product is involved in a wide range of biological processes, such as hypertension and ovulation. Altered expression of this gene is implicated in tumorigenesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014]