

Product datasheet for **RG203410**

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:	TurboGFP
Symbol:	Endothelin 3
Synonyms:	ET-3; ET3; HSCR4; PPET3; WS4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203410 representing NM_207034 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGGGCTGTGGCTCCTTTTCGGGCTCACAGTGACCTCCGCCGAGGATTCGTGCCTTGCTCCC
AGTCTGGGGATGCTGGCAGGCGCGGCGTGTCCAGGCCCCACTGCAGCCAGATCTGAGGGGACTGTGA
AGAGACTGTGGCTGGCCCTGGCGAGGAGACTGTGGCTGGCCCTGGCGAGGGGACTGTGGCCCGACAGCA
CTGCAGGGTCCAAGCCCTGGAAGCCCTGGGAGGAGCAGGCGGCCGAGGGGGCCCTGAGCACACCAGAT
CCAGGCGCTGCAGTGCTTACCTACAAGGACAAGGAGTGTGTCTACTATTGCCACCTGGACATCATTTG
GATCAAACTCCCGAACAGACGGTGCCTATGGACTGTCCAACACAGAGGAAGCTTCCGGGGCAAGAGG
TCTGCGGGGCCACTTCCAGGGAATCTGCAGCTCTCACATCGGCCACACTTGCCTGCGCTTGTGTGGGA
GATATGACAAGGCCTGCCTGCACCTTTTGCACCCAACTCTGGACGTCAGCAGTAATTCAAGGACGGCAGA
AAAAACAGACAAAGAAGAGGAAGGAAGTTGAAGTCAAGGACCAACAAAGCAAGCAGGCTTTAGACCTC
CACCATCAAAGCTCATGCCCGCAGTGGACTCGCCCTCGCTCCATCTACCTGCCCCGCTGCCTTTTC
AGGAAGGAGCCCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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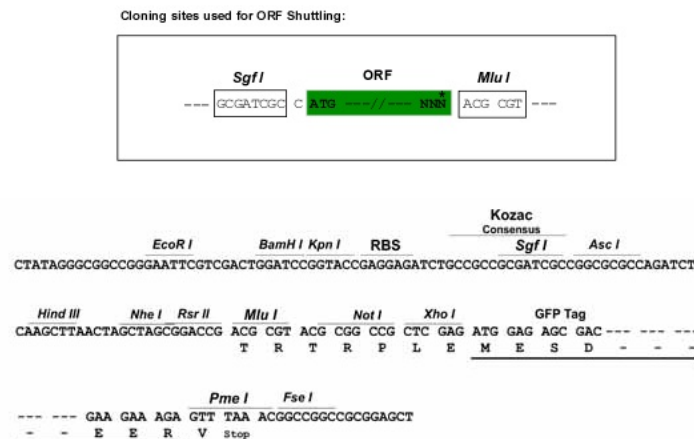
Protein Sequence: >RG203410 representing NM_207034
Red=Cloning site Green=Tags(s)

MEPGLWLLFGLTVTSAAGFVPCSQSGDAGRRGVSQAPTAARSEGDCEETVAGPGEETVAGPGEGTVAPTA
 LQGPSPGSPGQEQAAEGAPEHHRSRRCTFTYKDKCEVYCHLDIIWINTPEQTVPYGLSNYRGSFRGKR
 SAGPLPGNLQLSHRPHLRCAVCGRYDKACLHFCTQTLDVSSNSRTAEKTDKEEGKVEVKDQKQALDL
 HHPKLMPGSGLALAPSTCPRCLFQEGAP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: [NM_207034.3](#)

RefSeq Size: 2659 bp

RefSeq ORF: 717 bp

Locus ID: 1908

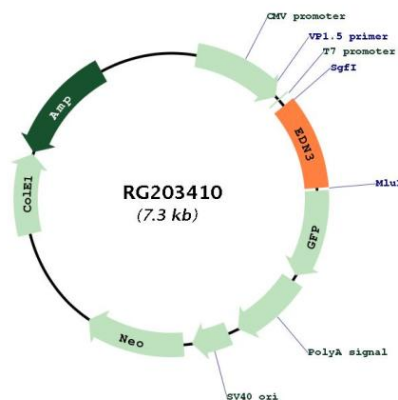
UniProt ID: [P14138](#)

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]

Product images:



Circular map for RG203410