

## Specifications:

|                |                  |
|----------------|------------------|
| Gene:          | hEDNRB           |
| Accession:     | NP_000106        |
| Insert size:   | 1342bp           |
| Concentration: | 10µg at 0.2µg/µL |

## Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

## Preparation and Storage

|             |                                                                     |
|-------------|---------------------------------------------------------------------|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5                           |
| Shipping    | Ships at ambient temperature                                        |
| Stability   | 1 year from date of receipt when stored at -20°C to -80°C           |
| Storage     | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

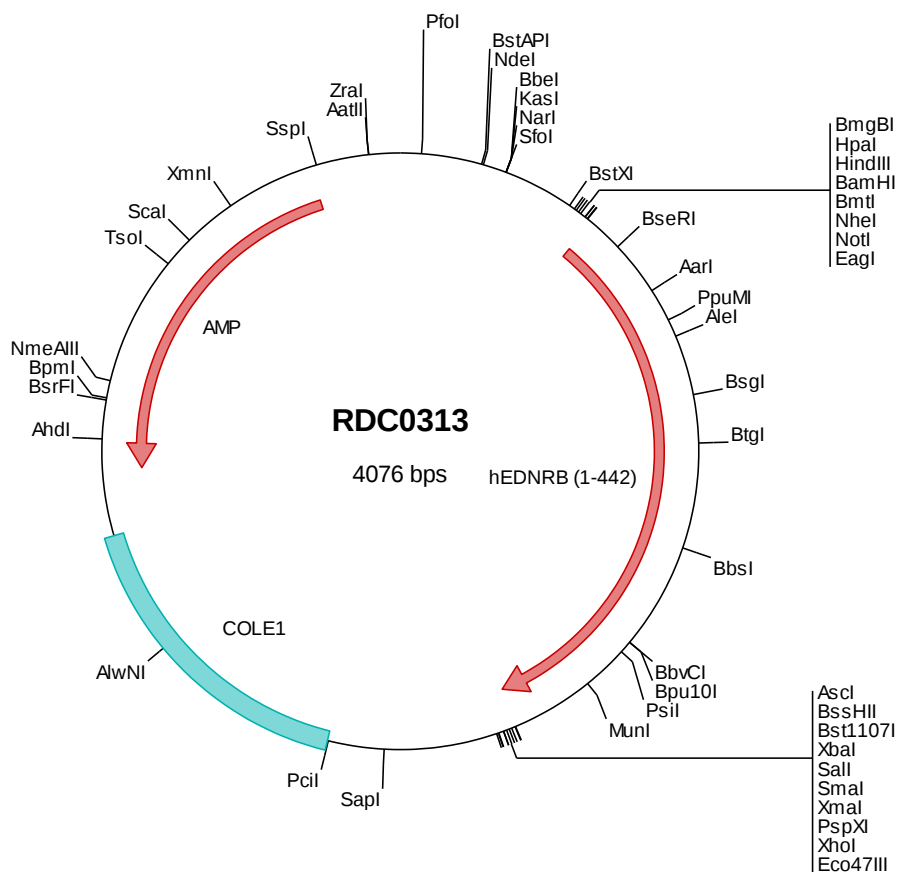
## hEDNRB cDNA Plasmid

### EDNRB endothelin receptor type B [ *Homo sapiens* ]

**Also known as:** ETB; ET-B; ETBR;  
ETRB; HSCR; WS4A; ABCDS; ET-BR;  
HSCR2

### Summary:

EDNRB is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. EDNRB is expressed in placental stem villi vessels, but not in cultured placental villi smooth muscle cells. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in EDNRB. Defects in EDNRB are also a cause of Waardenburg syndrome type 4A.





## > RDC0313 Plasmid DNA Sequence

```
1   tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101  tcaggggcgc tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc ggtgtaata
201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aaggcgcatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaggg ggaatgtctg caaggcgatt aagtttggta acgccagggt tttccagtc acgacgttgt aaaacgacg ccatgtaatt
401  ggagacgtgt taacaagctt ggaaccgata tgcgtagcgc ggccgcacac atgcagccgc ctccaagtct gtgcggacgc gccctggttg cgtggttct
501  tgccctgcgc ctgtgcggga tctggggaga ggagagaggc tcccgccctg acagggccac tccgcttttg caaacgcgag agataatgac gccacccact
601  aagaccttat ggcccaaggg ttccaacgcc agtctggcgc ggtcgttggc acctgcggag gtgcctaaag gagacaggac ggcaggatct ccgccacgca
701  ccattctccc tcccgcgtgc caaggaccca tgcgagatcaa ggagactttc aaatacatca acacggttgt gtccctgcctt gttgtctgtc tggggatcat
801  cgggaactcc acacttctga gaattatcta caagaacaag tgcattgcga acggtcccaa tatcttgatc gccagcttgg ctctgggaga cctgctgcac
901  atcgtcaattg acatccctat caatgtctac aagctgctgg cagaggactg gccatttggg gctgagatgt gtaagctggt gcctttcata cagaaaacct
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1901 cacaacatac gagccggaag cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctactgccc gctttccagt
2001 cgggaaacct gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg agagcggtt tgcgtatttg gcgctcttcc gcttccctgc tcaactgact
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2601 tggcagcagc cactggtaac aggattagca gagcgaggtg ttaggcggt gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac
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3101 ataactacga tacgggaggg cttaccatct ggccccagtg ctgcaacttt atccgcctcc atccagctc taaattggtg ccgggaagct agagtaagta gttcgccagt
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3701 cgaaaaactc caaggtatctt acccggtgtg agatgaaatt cgaatgtaacc ccatcgtgca cccaactgat cttcagcatc tttactttc accagcgttt
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3901 aagcatttat cagggttatt gtcctatgag cggatcacata tttgaatgta tttgaaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg
4001 ccactgcagc tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtc
```

## > RDC0313 Translated Insert Sequence

```
1   mqpppslcr alvalvlacg lsriwgeerg fppdratp1l qtaeimtppt ktlwpkgsna slarslapae vpkgdrtags pprrtispppc qgpleiketf
101  kyintvvscl vfvlgliagn tllriiyknk cmrngpnili aslalgdllh ividipinvy kllaedwpfg aemcklvpi qkasvgitvl slcalsidry
201  ravaswsrik givgpkwtav eivliwvsv vlvapeaigf diitmdykg ylrlicllhpv qktafmqfyk takdwlfsf yfclplaita fftytlmtcem
301  lrkksqgmia lndhikqrre vaktvfc1vl vfallcwlplh lsrlkltyl nqndpnrcel lsflvlldyi ginmaslnsc inpialyivs krfkncfksc
401  lccwcqsfee qksleekqsc lfkandhgy dnfrssnkys ss
```