*m*EDNRB VersaClone cDNA

Catalog Number: RDC0677

Specifications:

Gene:	*m*EDNRB
Accession:	NP_031930
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

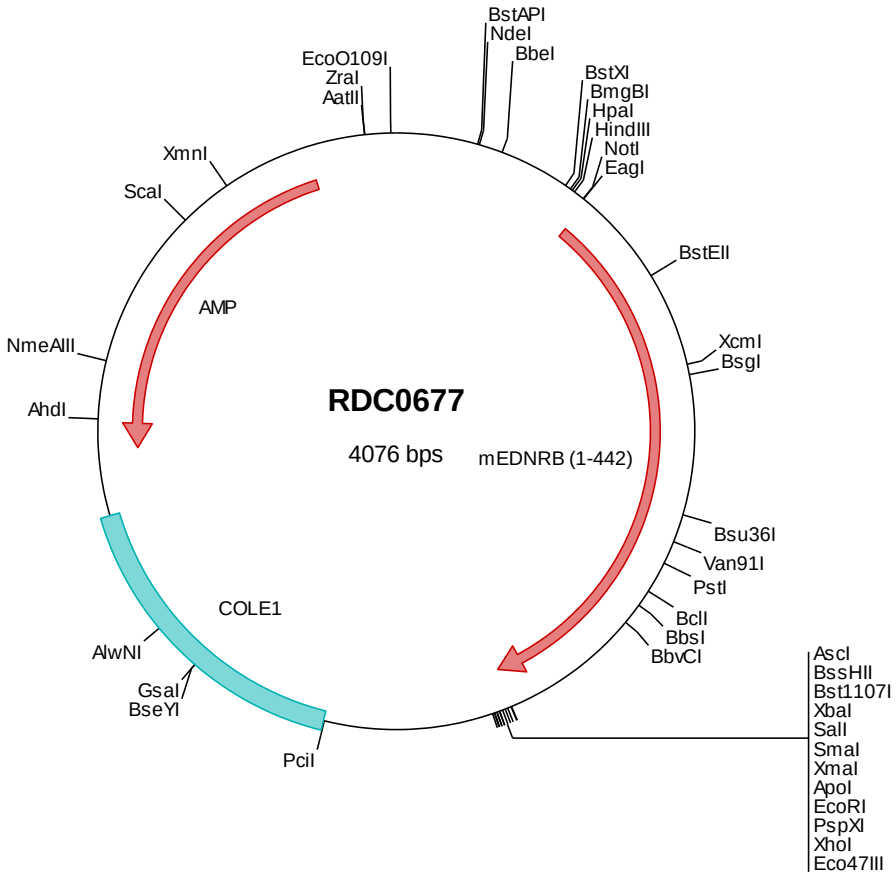
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*m*EDNRB cDNA Plasmid

Ednrb endothelin receptor type B
[*Mus musculus* (house mouse)]

Also known as: ETb; ET-B; ET-BR; ETR-b; Sox10m1

Summary:
EDNRB is a receptor for endothelins. It is a member of the G protein-coupled receptor family that activates a phosphatidylinositol-calcium second messenger system. EDNRB is required for the development of enteric neurons and melanocytes. Defects in EDNRB are found in the piebald mouse, and mouse models of Hirschsprung's disease and Waardenburg syndrome type 4.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0677 Plasmid DNA Sequence

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   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgcaatcgc ccgcaagccg gtgcggacgc gccttggtgg cgctgctgct
 501  ggcctgtggc ttcttggggg tatggggaga gaaaagagga ttcccacctg cccaagccac gctgtcactt ctcgggacta aagaggtaat gacgccaccc
 601  actaagacct cctggaccag aggttccaac tccagtctga tgcgttcctc cgcacctgcg gaggtgacca aaggagggag gggggctgga gtcccgccaa
 701  gatccttccc tcctccgtgc caacgaaata ttgagatcag caagactttt aaatacatca acacgattgt gtcgtgcctc gtgttcgtgc taggcatcat
 801  cgggaactcc acgctgctaa gaatcatcta caagaacaag tgcatgcgca atggtcccaa tatcttgatc gccagtctgg ctctgggaga cctactgcac
 901  atcatcatag acatacccat taacacctac aagttgctcg cagaggactg gccatttgga gctgagatgt gtaagctggt gcccttcata cagaaggctt
1001  ctgtgggaat cacagtgctg agtctttgtg ctctaagtat tgacagatat cgagctgttg cttcttggag tcgaattaaa ggaattgggg ttccaaaatg
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1301  tgccgctagc catcactgca gtcttttata ccctgatgac ctgcgaaatg ctcaggaaga agagcggtat gcagattgct ttgaatgatc acttaaagca
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1601  tcgctctgta tttggtgagc aaaagattca aaaactgctt taagtcatgt ttgtgctgct ggtgccaaac gtttgaggaa aagcagtcct tggaggagaa
1701  gcagtcctgc ctgaagttca aagccaacga tcacggatat gacaacttcc ggtccagcaa taaatacagc tcgtcttaaa ggcgcgccag tatactctag
1801  agtcgacacc cggggaattc ctcgagcgct cgtctctagc ttggcgtaat catggtcata gctgtttcct gtgtgaaatt gttatccgct cacaattcca
1901  cacaacatac gagccggaag cataaagtgt aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc gctttccagt
2001  cgggaaacct gtcgtgccag ctgcattaat gaatcggcca acgcgcgggg agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc
2101  gctgcgctcg gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca gaatcagggg ataacgcagg aaagaacatg
2201  tgagcaaaag gccagcaaaa ggccaggaac cgtaaaaagg ccgcgttgct ggcgtttttc cataggctcc gccccctga cgagcatcac aaaaatcgac
2301  gctcaagtca gaggtggcga aacccgacag gactataaag ataccaggcg tttcccctg gaagctccct cgtgcgctct cctgttccga ccctgccgct
2401  taccggatac ctgtccgcct ttctcccttc gggaagcgtg gcgctttctc aatgctcacg ctgtaggtat ctcagttcgg tgtaggtcgt tcgctccaag
2501  ctgggctgtg tgcacgaacc ccccgttcag cccgaccgct gcgccttatc cggtaactat cgtcttgagt ccaacccggt aagacacgac ttatcgccac
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2801  tttgtttgca agcagcagat tacgcgcaga aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac gaaaactcac
2901  gttaagggat tttggtcatg agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta
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3601  gcggcgaccg agttgctctt gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa gtgctcatca ttggaaaacg ttcttcgggg
3701  cgaaaactct caaggatctt accgctgttg agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc accagcgttt
3801  ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg
3901  aagcatttat cagggttatt gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagtg
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> RDC0677 Translated Insert Sequence

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101  kyintivscl vfvlgiigns tllriiyknk cmrngpnili aslalgdllh iiidipinty kllaedwpfg aemcklvpfi qkasvgitvl slcalsidry
201  ravaswsrik gigvpkwtav eivliwvvsv vlavpeaigf dmitsdykgk plrvcmlnpf qktafmqfyk takdwwlfsf yfclplaita vfytlmtcem
301  lrkksgmqia lndhlkqrre vaktvfclvl vfalcwlplh lsrilkltly dqsnphrcel lsfllvldyi ginmaslnsc inpialylvs krfkncfksc
401  lccwcqtfee kqsleekqsc lkfkandhgy dnfrssnkys ss
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