

Product datasheet for **SC320419**

Endothelin B Receptor (EDNRB) (NM_000115) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin B Receptor (EDNRB) (NM_000115) Human Untagged Clone
Tag:	Tag Free
Symbol:	Endothelin B Receptor
Synonyms:	ABCDS; ET-B; ET-BR; ETB; ETB1; ETBR; ETRB; HSCR; HSCR2; WS4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_000115.1
 CAGGAAGGAGTTTCGACCCGCGCTGGCGAGTCATGAGCGCCAAGTTTCCCACTGGCGCGC
 AAATTGAGTTACTTTTGGAGCTGGATACTGGCGAAGAGGCTGCGGGCGGTATTAGCGTT
 TGCAGCGACTTGGCTCGGGCAGCTGACCCAAGTGTCTGTCTTCCCTCTGCTGTGTCT
 CTAGGCTCTGAACTGCGGAGCGGCCACCGACGCCTTCTGGAGCAGGTAGCAGCATGCA
 GCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTC
 GCGGACTGCGGGAGAGGAGAGAGGCTTCCCGCTGACAGGGCCACTCCGTTTTTGCAAAC
 CGCAGAGATAATGACGCCACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCT
 GGCGCGGTCGTTGGCACCTGCGGAGGTGCCTAAAGGAGACAGGACGGCAGGATCTCCGCC
 ACGCACCATCTCCCCTCCCCCGTCCAAGGACCCATCGAGATCAAGGAGACTTTCAAATA
 CATCAACACGGTTGTGTCTGCCTTGTGTTGCTGCTGGGGATCATCGGGAATCCCACT
 TCTGAGAATTATCTACAAGAACAAGTGCATGCGAAACGGTCCCAATATCTTGATCGCCAG
 CTTGGCTCTGGGAGACCTGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCT
 GCTGGCAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTTCATACAGAA
 AGCCTCCGTGGGAATCACTGTGCTGAGTCTATGTGCTCTGAGTATTGACAGATATCGAGC
 TGTTGCTTCTGGAGTAGAATTAAGGAATTGGGGTTCCAAAATGGACAGCAGTAGAAAAT
 TGTTTTGATTTGGGTGGTCTCTGTGTTCTGGCTGTCCCTGAAGCCATAGTTTTGATAT
 AATTACGATGGACTACAAAGGAAGTTATCTGCGAATCTGCTTGCATCCCGTTTCAGAA
 GACAGCTTTTCATGCAGTTTTACAAGACAGCAAAAGATTGGTGGCTGTTCACTTTCTATTT
 CTGCTTGGCATTGGCCATCACTGCATTTTTTATACACTAATGACCTGTGAAATGTTGAG
 AAAGAAAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGC
 CAAAACCGTCTTTTGCCTGGTCCCTTGTCTTTGCCCTCTGCTGGCTTCCCCTTACCTCAG
 CAGGATCTGAAGCTCACTCTTTATAATCAGAATGATCCCAATAGATGTGAAGTTTGGAG
 CTTTCTGTTGGTATTGGACTATATTGGTATCAACATGGCTTCACTGAATTCCTGCATTAA
 CCCAATTGCTCTGATTTGGTGAGCAAAAGATTCAAAAAGTCTTTAAGTCATGCTTATG
 CTGCTGGTGCCAGTCATTTGAAGAAAAACAGTCCTTGGAGGAAAAGCAGTCGTGCTTAA
 GTTCAAAGCTAATGATCACGGATATGACAACTTCCGTTCCAGTAATAAATACAGCTCATC
 TTGAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_000115

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_000115.1</u> , <u>NP_000106.1</u>
RefSeq Size:	4286 bp
RefSeq ORF:	1329 bp
Locus ID:	1910
UniProt ID:	<u>P24530</u>
Cytogenetics:	13q22.3
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Melanogenesis, Neuroactive ligand-receptor interaction
Gene Summary:	<p>The protein encoded by this gene 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. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]</p> <p>Transcript Variant: This variant (1) encodes isoform 1. Both variants 1 and 3 encode protein. This variant represents the use of an upstream long terminal repeat (LTR) promoter and sequence, and results in placental-specific expression. (PMID: 11054415). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>