

## Product datasheet for **RG216462**

### Endothelin B Receptor (EDNRB) (NM\_003991) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin B Receptor (EDNRB) (NM_003991) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EDNRB
Synonyms:	ABCD5; ET-B; ET-BR; ETB; ETB1; ETBR; ETRB; HSCR; HSCR2; WS4A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216462 representing NM_003991 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCCGCCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTGCGGA  
TCTGGGGAGAGGAGAGAGGCTTCCCGCCGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGAC  
GCCACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTGTTGGCACCTGCGGAG  
GTGCCTAAAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCTCCCCGTGCCAAGGACCCA  
TCGAGATCAAGGAGACTTCAAATACATCAACACGGTTGTGCTCCTGCCTTGTGTTGCTGCTGGGGATCAT  
CGGGAACCTCCACACTTCTGAGAATTATCTACAAGAAAGTGCATGCGAAACGGTCCCAATATCTTGATC  
GCCAGCTTGGCTCTGGGAGACCTGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGG  
CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTTCATACAGAAAGCCTCCGTGGGAAT  
CACTGTGCTGAGTCTATGTGCTCTGAGTATTGACAGATATCGAGCTGTTGCTTCTTGAGTAGAATTA  
GGAATTGGGGTCCAAAATGGACAGCAGTAGAAATGTTTTGATTGGTGGTCTCTGTGGTTCTGGCTG  
TCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACAAAGGAAGTTATCTGCGAATCTGCTTGCT  
TCATCCCGTTTCAAGACAGCTTTCATGCAGTTTTACAAGACAGCAAAAGATTGGTGGCTGTTCAAGTTT  
TATTTCTGCTTGCCATTGGCCATCACTGCATTTTTTATACACTAATGACCTGTGAAATGTTGAGAAAGA  
AAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCAAAACCGTCTTTTG  
CCTGGTCTTGTCTTTGCCCTCTGCTGGCTTCCCTTACCTCAGCAGGATTCTGAAGCTCACTCTTTAT  
AATCAGAATGATCCCAATAGATGTGAACCTTTGAGCTTCTGTTGGTATTGGACTATATTGGTATCAACA  
TGGCTTCACTGAATTCCTGCATTAACCAATTGCTCTGTATTTGGTGGAGCAAAAGATTCAAAAACCTGCTT  
TAAGGCTGGCCACATGTTGAAATAAGCTAGTAATGTTGTTTTCTGTCAATATTGAATGTGATGGTACA  
GTAACCAAAAACCAACAATGTGCCAGAAAGAAAGCAATAATAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216462 representing NM\_003991  
 Red=Cloning site Green=Tags(s)

MQPPPSLCGRALVALVLACGLSRIWGEERGFPDRATPLLQTAEIMTPPTKTLWPKGSNASLARS LAPAE  
 VPKGDRTAGSPRTISPPPCQGP I E I K E T F K Y I N T V V S C L V F V L G I I G N S T L L R I I Y K N K C M R N G P N I L I  
 A S L A L G D L L H I V I D I P I N V Y K L L A E D W P F G A E M C K L V P F I Q K A S V G I T V L S L C A L S I D R Y R A V A S W S R I K  
 G I G V P K W T A V E I V L I W V S V V L A V P E A I G F D I I T M D Y K G S Y L R I C L L H P V Q K T A F M Q F Y K T A K D W W L F S F  
 Y F C L P L A I T A F F Y T L M T C E M L R K K S G M Q I A L N D H L K Q R R E V A K T V F C L V L V F A L C W L P L H L S R I L K L T L Y  
 N Q N D P N R C E L L S F L L V L D Y I G I N M A S L N S C I N P I A L Y L V S K R F K N C F K A G P H V G N K L V M L F S V N I E C D G T  
 V N Q N P T M W P E R K S N N N

TRTRPLE - GFP Tag - V

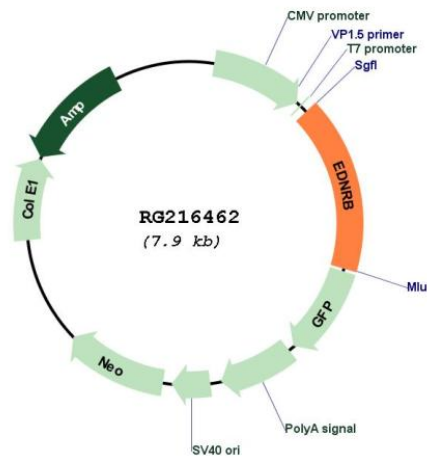
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_003991

<b>ORF Size:</b>	1308 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003991.1</a> , <a href="#">NP_003982.1</a>
<b>RefSeq Size:</b>	1578 bp
<b>RefSeq ORF:</b>	1311 bp
<b>Locus ID:</b>	1910
<b>UniProt ID:</b>	<a href="#">P24530</a>
<b>Cytogenetics:</b>	13q22.3
<b>Domains:</b>	7tm_1
<b>Protein Families:</b>	Druggable Genome, GPCR, Transmembrane
<b>Protein Pathways:</b>	Calcium signaling pathway, Melanogenesis, Neuroactive ligand-receptor interaction
<b>Gene Summary:</b>	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]