

Product datasheet for **RG225723**

Endothelin B Receptor (EDNRB) (NM_001122659) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Endothelin B Receptor (EDNRB) (NM_001122659) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Endothelin B Receptor
Synonyms:	ABCDS; 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:	>RG225723 representing NM_001122659 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGCAGCCGCTCCAAGTCTGTGCGGACGCGCCCTGGTTGCGCTGGTTCTTGCCTGCGGCCTGTGCGGA
TCTGGGGAGAGGAGAGAGGCTTCCCGCTGACAGGGCCACTCCGCTTTTGCAAACCGCAGAGATAATGAC
GCCACCCACTAAGACCTTATGGCCCAAGGGTTCCAACGCCAGTCTGGCGCGGTGTTGGCACCTGCGGAG
GTGCTAAAGGAGACAGGACGGCAGGATCTCCGCCACGCACCATCTCCCTCCCCGTGCCAAGGACCCA
TCGAGATCAAGGAGACTTCAAATACATCAACACGGTTGTCTGCCTTGTGTTGCTGCTGGGGATCAT
CGGAACTCCACACTTCTGAGAATTATCTACAAGAAAGTGCATGCGAAACGGTCCCAATATCTTGATC
GCCAGCTTGGCTCTGGGAGACCTGCTGCACATCGTCATTGACATCCCTATCAATGTCTACAAGCTGCTGG
CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTTCATACAGAAAGCCTCCGTGGGAAT
CACTGTGCTGAGTCTATGTGCTCTGAGTATTGACAGATATCGAGCTGTTGCTTCTTGAGTAGAATTA
GGAATTGGGGTTCCAAAATGGACAGCAGTAGAAATGTTTTGATTGGGTGGTCTCTGTGGTTCTGGCTG
TCCCTGAAGCCATAGGTTTTGATATAATTACGATGGACTACAAAGGAAGTTATCTGCGAATCTGCTTGCT
TCATCCCGTTCAGAAGACAGCTTTCATGCAGTTTTACAAGACAGCAAAAGATTGGTGGCTATTCAGTTTC
TATTTCTGCTTGGCATTGGCCATCACTGCATTTTTTATACACTAATGACCTGTGAAATGTTGAGAAAGA
AAAGTGGCATGCAGATTGCTTTAAATGATCACCTAAAGCAGAGACGGGAAGTGGCCAAAACCGTCTTTTG
CCTGGTCTTGTCTTTGCCCTCTGCTGGCTTCCCTTCACCTCAGCAGGATTCTGAAGCTCACTCTTTAT
AATCAGAATGATCCCAATAGATGTGAACCTTTGAGCTTCTGTTGGTATTGGACTATATTGGTATCAACA
TGGCTTCACTGAATCCTGCATTAACCAATTGCTCTGTATTTGGTGGAGCAAAAGATTCAAAAACGCTT
TAAGTCATGCTTATGCTGCTGGTCCAGTCATTTGAAGAAAAACAGTCCTTGGAGAAAAGCAGTCGTGC
TTAAAGTTCAAAGCTAATGATCACGGATATGACAACTCCGTTCCAGTAATAAATACAGCTCATCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225723 representing NM_001122659
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 S C L C C W C Q S F E E K Q S L E E K Q S C
 L K F K A N D H G Y D N F R S S N K Y S S S

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001122659

ORF Size: 1326 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_001122659.2](#), [NP_001116131.1](#)

RefSeq Size: 4320 bp

RefSeq ORF: 1329 bp

Locus ID: 1910

UniProt ID: [P24530](#)

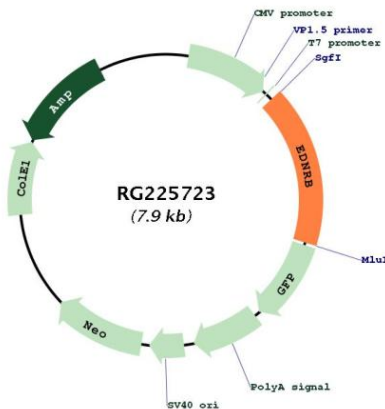
Cytogenetics: 13q22.3

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Melanogenesis, Neuroactive ligand-receptor interaction

Gene Summary: 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]

Product images:



Circular map for RG225723