

Product datasheet for **RG232108**

Endothelin A Receptor (EDNRA) (NM_001256283) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Endothelin A Receptor (EDNRA) (NM_001256283) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: EDNRA
Synonyms: ET-A; ETA; ETA-R; ETAR; ETRA; hET-AR
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232108 representing NM_001256283
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTACCCTTTGAATATAGGGGTGAACAGCATAAAACCTGTATGCTCAATGCCACATCAAATTCATGG
 AGTTCTACCAAGATGTAAGGACTGGTGGCTCTTCGGTTCTATTTCTGTATGCCCTTGGTGTGCACTGC
 GATCTTCTACACCCTCATGACTTGTGAGATGTTGAACAGAAGGAATGGCAGCTTGAGAATTGCCCTCAGT
 GAACATCTTAAGCAGCGTCGAGAAGTGGCAAAAACAGTTTCTGCTTGGTTGTAATTTTGTCTTTGCT
 GGTTCCTCTTCATTTAAGCCGTATATTGAAGAAAACCTGTGTATAACGAGATGGACAAGAACCGATGTGA
 ATTACTTAGTTTCTACTGCTCATGGATTACATCGGTATTAACCTGGCAACCATGAATTCATGTATAAAC
 CCCATAGCTCTGTATTTGTGAGCAAGAAATTTAAAAATTGTTTCCAGTCATGCCTCTGCTGCTGCTGTT
 ACCAGTCCAAAAGTCTGATGACCTCGGTCCCCATGAACGGAACAAGCATCCAGTGGAGAACCACGATCA
 AAACAACCACAACACAGACCGGAGCAGCCATAAGGACAGCATGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG232108 representing NM_001256283
 Red=Cloning site Green=Tags(s)

MVPFEYRGEQHKTCMLNATSKFMEFYQDVKDWLFGFYFCMPVCTAIFYTLMTCEMLNRRNGSLRIALS
 EHLKQRREVAKTVFCLVVIFALCWFLHLSRILKKTVYNEMDKNRCELLSFLLLMDYIGINLATMNSCIN
 PIALYFVSKKFKNCFQSCLCCCCYQSKSLMTSVPMMNGTSIQWKNHDQNNHNTDRSSHKDSMN

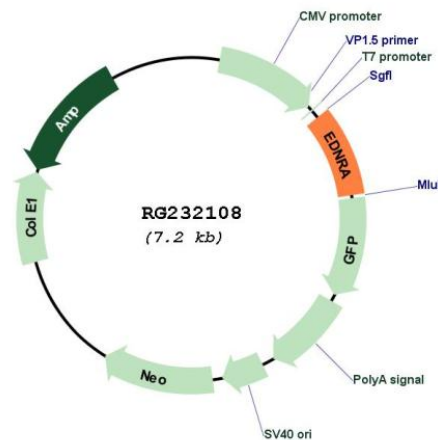
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001256283

ORF Size: 606 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_001256283.1](#), [NP_001243212.1](#)

RefSeq Size: 3678 bp

RefSeq ORF: 609 bp

Locus ID: 1909

UniProt ID: [P25101](#)

Cytogenetics: 4q31.22-q31.23

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction

Gene Summary: This gene encodes the receptor for endothelin-1, a peptide that plays a role in potent and long-lasting vasoconstriction. This receptor associates with guanine-nucleotide-binding (G) proteins, and this coupling activates a phosphatidylinositol-calcium second messenger system. Polymorphisms in this gene have been linked to migraine headache resistance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]