

## Product datasheet for MC215781

### Ednrb (NM\_007904) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ednrb (NM\_007904) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ednrb  
**Synonyms:** ET-B; ET-BR; ETb; ETR-; ETR-b; Sox10; Sox10m1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC215781 representing NM\_007904  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGCAATCGCCCGCAAGCCGGTGCAGCGCCCTTGGTGGCGTCTGCTGGCCTGTGGCTTCTGGGG  
 TATGGGGAGAGAAAAGAGGATCCACCTGCCAAGCCACGCTGTCACTTCTCGGACTAAAGAGGTAAT  
 GACGCCACCCACTAAGACCTCCTGGACCAGAGGTTCCAACCTCCAGTCTGATGCGTTCCTCCGCACCTGCG  
 GAGGTGACCAAAGGAGGGAGGGGGCTGGAGTCCCGCAAGATCCTTCCCTCCTCCGTGCCAACGAAATA  
 TTGAGATCAGCAAGACTTTAAATACATCAACACGATTGTGTCGTGCCTCGTGCTGAGGATCAT  
 CGGGAACCTCCACGCTGCTAAGAATCATCTACAAGAACAAGTGCATGCGCAATGGTCCCAATATCTTGATC  
 GCCAGTCTGGCTCTGGGAGACCTACTGCACATCATAGACATACCCATTAACACCTACAAGTTGCTCG  
 CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTCATACAGAAGGCTTCTGTGGGAAT  
 CACAGTGTGAGTCTTTGTGCTAAGTATTGACAGATATCGAGCTGTTGCTTCTGGAGTCGAATTA  
 GGAATTTGGGTTCCAAAATGGACAGCAGTAGAAATGTTTTAATTTGGTGGTCTCTGTGGTTCTGGCTG  
 TCCCCGAAGCCATAGGTTTTGATATGATTACGTCCGACTACAAAGGAAAGCCCTAAGGGTCTGCATGCT  
 TAATCCCTTTAGAAAACAGCCTTCATGCAGTTTTACAAGACAGCCAAAGATTGGTGGCTGTTCAAGTTT  
 TACTTCTGCTTGGCGCTAGCCATCACTGCAGTCTTTTATACCCTGATGACCTGCGAAATGCTCAGGAAGA  
 AGAGCGGTATGCAGATTGCTTTGAATGATCACTTAAAGCAGAGACGAGAAGTGGCCAAGACAGTCTTCTG  
 CCTGGTCTCGTGTGCTCTGTTGGCTTCCCTTACCTCAGCCGGATCCTGAAGCTCACCTGTAT  
 GACCAGAGCAATCCACACAGGTGTGAGCTTCTGAGCTTTTGTGGTTTTGGACTACATTGGTATCAACA  
 TGGCTTCTTTGAACTCCTGCATCAATCCAATCGCTCTGTATTTGGTGGAGCAAAGATTCAAAAAGTCTT  
 TAAGTCATGTTTGTGCTGCTGGTCCAAACGTTTGAGGAAAAGCAGTCTTGGAGGAGAAGCAGTCTGCG  
 CTGAAGTTCAAAGCCAACGATCACGGATATGACAACCTCCGGTCCAGCAATAAATACAGCTCGTCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-Mlul  |
| <b>ACCN:</b>                  | NM_007904  |
| <b>Insert Size:</b>           | 1329 bp  |
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p> |
| <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_007904.4</a> , <a href="#">NP_031930.1</a>  |
| <b>RefSeq Size:</b>           | 4005 bp  |
| <b>RefSeq ORF:</b>            | 1329 bp  |
| <b>Locus ID:</b>              | 13618  |
| <b>UniProt ID:</b>            | <a href="#">P48302</a>   |
| <b>Cytogenetics:</b>          | 14 53.05 cM  |

**Gene Summary:**

This gene encodes a member of the G-protein coupled receptor family. It encodes a receptor for endothelins, peptides that are involved in vasoconstriction. The encoded protein activates a phosphatidylinositol-calcium second messenger system and is required for the development of enteric neurons and melanocytes. Gene disruption causes pigmentation anomalies, deafness, and abnormal dilation of the colon due to defects of neural crest-derived cells. Mutations in this gene are found in the piebald mouse, and mouse models of Hirschsprung's disease and Waardenburg syndrome type 4. Renal collecting duct-specific gene deletion causes sodium retention and hypertension. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (1) differs in the 5' UTR compared to variant 2. Variants 1, 2, and 3 encode the same protein.