

## Product datasheet for **MG222952**

### Ednrb (NM\_001136061) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ednrb (NM\_001136061) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ednrb  
**Synonyms:** ET-B; ET-BR; ETb; ETR-; ETR-b; Sox10; Sox10m1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222952 representing NM\_001136061  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAATCGCCGCAAGCCGGTGCAGCGCCTTGGTGGCGCTGCTGCTGGCCTGTGGCTTCTTGGGGG  
 TATGGGGAGAGAAAAGAGGATCCACCTGCCAAGCCACGCTGTCACTTCTCGGACTAAAGAGGTAAT  
 GACGCCACCCACTAAGACCTCCTGGACCAGAGGTTCCAACCTCCAGTCTGATGCGTTCCTCCGCACCTGCC  
 GAGGTGACCAAAGGAGGGAGGGGGCTGGAGTCCCGCAAGATCCTTCCCTCCTCGTGCCAACGAATA  
 TTGAGATCAGCAAGACTTTTAAATACATCAACACGATTGTGTCGTCCTCGTGTTCGTGCTAGGCATCAT  
 CGGGAATCCACGCTGCTAAGAATCATCTACAAGAACAAGTGCATGCGCAATGGTCCCAATATCTTGATC  
 GCCAGTCTGGCTCTGGGAGACCTACTGCACATCATATAGACATACCCATTAACACCTACAAGTTGCTCG  
 CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTCATACAGAAGGCTTCTGTGGGAAT  
 CACAGTGTGAGTCTTTGTGCTCTAAGTATTGACAGATATCGAGCTGTTGCTTCTTGAGTCAATTA  
 GGAATTGGGGTCCAAAATGGACAGCAGTAGAAATGTTTTAATTTGGGTGGTCTCTGTGGTTCTGGCTG  
 TCCCCGAAGCCATAGGTTTTGATGATTACGTCGGACTACAAAGGAAAGCCCTAAGGGTCTGCATGCT  
 TAATCCCTTTAGAAAACAGCCTTCATGCAGTTTTACAAGACAGCCAAAGATTGGTGGCTGTTCAAGTTT  
 TACTTCTGCTTGGCGTAGCCATCACTGCAGTCTTTTATACCCTGATGACCTGCGAAATGCTCAGGAAGA  
 AGAGCGGTATGCAGATTGCTTTGAATGATCACTTAAAGCAGAGACGAGAAGTGGCCAAGACAGTCTTCTG  
 CCTGGTCTCGTGTGCTCTGTTGGCTTCCCTTCACCTCAGCCGGATCCTGAAGCTCACCTGTAT  
 GACCAGAGCAATCCACACAGGTGTGAGCTTCTGAGCTTTTTGTTGGTTTTGGACTACATTGGTATCAACA  
 TGGCTTCTTGAACCTCCTGCATCAATCAATCGCTCTGTATTTGGTGGAGCAAAGATTCAAAAAGTCTT  
 TAAGTCATGTTTGTGCTGCTGGTCCAAACGTTTGAAGAAAAGCAGTCTTGGAGGAGAAGCAGTCTGCTG  
 CTGAAGTTCAAAGCCAACGATCACGGATATGACAACTCCGGTCCAGCAATAAATACAGCTCGTCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**



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**Protein Sequence:** >MG222952 representing NM\_001136061  
 Red=Cloning site Green=Tags(s)

MQSPASRCGRALVALLACGFLGVWGEKRGFPPAQATLSLLGTKEVMTPTTKTSWTRGSNSSLMRSSAPA  
 EVTKGGRGAGVPPRSFPPPCQRNIEISKTFKYINTIVSCLVFLGIIGNSTLLRIIYKNKCMRNGPNILI  
 ASLALGDLLHIIIDIPINTYKLLAEDWPFGAEMCKLVFPIQKASVGITVLSLICALSIDRYAVASWSRIK  
 GIGVPKWTAVEIVLIWVSVVLAVPEAIGFDMITSDYKKGKPLRVCMLNPFQKTAFMQFYKTAKDWWLFSF  
 YFCLPLAITAVFYTLMTCEMLRKKSGMQIALNDHLKQRREVAKTVFCLVLFVFCWLPPLHLRILKLTLY  
 DQSNPHRCCELLSFLLVLDYIGINMASLNSCINPIALYL VSKRFKNCFKSCLCCWCQTFEEKQSLEEKQSC  
 LKFKANDHGYDNFRSSNKYSSS

TRTRPLE - GFP Tag - V

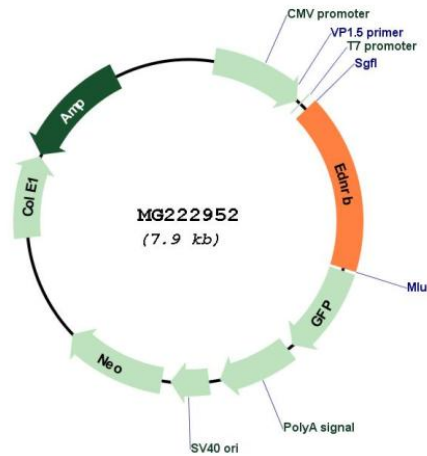
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_001136061

<b>ORF Size:</b>	1326 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_001136061.2</a> , <a href="#">NP_001129533.1</a>
<b>RefSeq Size:</b>	3878 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
<b>Gene Summary:</b>	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]