

## Product datasheet for MR229937

### Ednrb (NM\_001276296) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ednrb (NM_001276296) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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
ORF Nucleotide Sequence:	>MR229937 representing NM_001276296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCAATCGCCCGCAAGCCGGTGGCAGCGCCTTGGTGGCGCTGCTGCTGGCCTGTGGCTTCTTGGGG  
TATGGGGAGAGAAAAGAGGATCCACCTGCCAAGCCACGCTGTCACTTCTCGGACTAAAGAGGTAAT  
GACGCCACCCACTAAGACCTCCTGGACCAGAGGTTCCAACCTCCAGTCTGATGCGTTCCTCCGCACCTGCG  
GAGGTGACCAAAGGAGGGAGGGGGCTGGAGTCCCGCAAGATCCTTCCCTCCTCCGTGCCAACGAATA  
TTGAGATCAGCAAGACTTTAAATACATCAACACGATTGTGTCGTGCCTCGTGCTGAGGATCAT  
CGGGAACCTCCACGCTGCTAAGAATCATCTACAAGAACAAGTGCATGCGCAATGGTCCCAATATCTTGATC  
GCCAGTCTGGCTCTGGGAGACCTACTGCACATCATAGACATACCCATTAACACCTACAAGTTGCTCG  
CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTCATACAGAAGGCTTCTGTGGGAAT  
CACAGTGTGAGTCTTTGTGCTTAAGTATTGACAGATATCGAGCTGTTGCTTCTTGGAGTCGAATTA  
GGAAATGGGGTTCAAAATGGACAGCAGTAGAAATGTTTTAATTTGGGTGGTCTCTGTGGTTCTGGCTG  
TCCCCGAAGCCATAGGTTTTGATATGATTACGTCGGACTACAAAGGAAAGCCCTAAGGGTCTGCATGCT  
TAATCCCTTTCAGAAAACAGCCTTCATGCAGTTTTACAAGACAGCCAAAGATTGGTGGCTGTTCAAGTTT  
TACTTCTGCTTGGCCGCTAGCCATCACTGCAGTCTTTTATACCCTGATGACCTGCGAAATGCTCAGGAAGA  
AGAGCGGTATGCAGATTGCTTTGAATGATCACTTAAAGCAGAGACGAGAAGTGGCCAAGACAGTCTTCTG  
CCTGGTCTCGTGTGCTCTGTTGGCTTCCCTTACCTCAGCCGGATCCTGAAGCTCACCTGTAT  
GACCAGAGCAATCCACACAGGTGTGAGCTTCTGAGCTTTTTGTTGGTTTTGGACTACATTGGTATCAACA  
TGGCTTCTTTGAACTCCTGCATCAATCCAATCGCTCTGTATTTGGTGGAGCAAAGATTCAAAAAGTCTT  
TAAGTCATGTTTGTGCTGCTGGTCCAAACGTTTGAGGAAAAGCAGTCTTGGAGGAGAAGCAGTCTGCTG  
CTGAAGTTCAAAGCCAACGATCACGGATATGACAACCTCCGGTCCAGCAATAAATACAGCTCGTCT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229937 representing NM\_001276296  
 Red=Cloning site Green=Tags(s)

MQSPASRCGRALVALLACGFLGVWGEKRGFPPAQATLSLLGTKEVMTPTTKTSWTRGSNSSLMRSSAPA  
 EVTKGGRGAGVPPRSFPPPCQRNIEISKTFKYINTIVSCLVFVLGIIGNSTLLRIIYKNKCMRNGPNIL  
 ASLALGDLLHIIIDIPINTYKLLAEDWPFGAEMCKLVF IQKASVGITVLSL CALSIDRYAVASWSRIK  
 GIGVPKWTAVEIVLIWVSVVLA VPEAIGFDMITSDYK GKPLRVCMLNPFQKTA FMQFYKTA KDWWLFSF  
 YFCLPLAITAVFYLTMTCEMLRKKSGMQIALNDHLKQRREVAKT VFCLV LVFALCWLPLHLSRILKLTLY  
 DQSNPHRCCELLSFLLVLDYIGINMASLNSCINPIALYL VSKRFKNCFKSCLCCWCQT FEEKQSLEEKQSC  
 LKFKANDHGYDNFRSSNKYSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

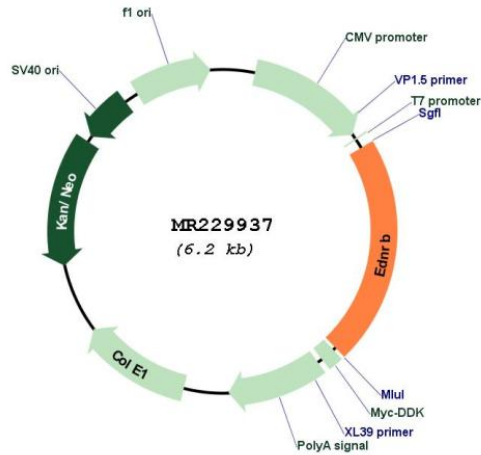
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001276296

<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_001276296.1</a> , <a href="#">NP_001263225.1</a>
<b>RefSeq Size:</b>	2788 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>MW:</b>	49.6 kDa
<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]