

Product datasheet for **MR222952**

Ednrb (NM_001136061) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ednrb (NM_001136061) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ednrb
Synonyms:	ET-B; ET-BR; ETb; ETR-; ETR-b; Sox10; Sox10m1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR222952 representing NM_001136061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAATCGCCGCAAGCCGGTGGCAGCGCCCTTGGTGGCGCTGCTGCTGGCCTGTGGCTTCTTGGGG
 TATGGGGAGAGAAAAGAGGATTCCACCTGCCAAGCCACGCTGTCACTTCTCGGACTAAAGAGGTAAT
 GACGCCACCCACTAAGACCTCCTGGACCAGAGGTTCCAACCTCCAGTCTGATGCGTTCCTCCGCACCTGCG
 GAGGTGACCAAAGGAGGGAGGGGGCTGGAGTCCCGCAAGATCCTTCCCTCCTCCGTGCCAACGAAATA
 TTGAGATCAGCAAGACTTTTAAATACATCAACACGATTGTGTCGTGCCTCGTGTTCGTGCTAGGCATCAT
 CGGGAACCTCACGCTGCTAAGAATCATCTACAAGAACAAGTGCATGCGCAATGGTCCCAATATCTTGATC
 GCCAGTCTGGCTCTGGGAGACCTACTGCACATCATAGACATACCCATTAACACCTACAAGTTGCTCG
 CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCCTTCATACAGAAGGCTTCTGTGGGAAT
 CACAGTGTGAGTCTTTGTGCTTAAGTATTGACAGATATCGAGCTGTTGCTTCTTGGAGTGAATTA
 GGAATTGGGGTTCCAAAATGGACAGCAGTAGAAAATGTTTTAATTTGGGTGGTCTCTGTGGTTCTGGCTG
 TCCCCGAAGCCATAGGTTTTGATATGATTACGTCGGACTACAAAGGAAAGCCCTAAGGGTCTGCATGCT
 TAATCCCTTTCAGAAAACAGCCTTCATGCACTTTTACAAGACAGCCAAAGATTGGTGGCTGTTCACTTTC
 TACTTCTGCTTGGCGCTAGCCATCACTGCACTTTTATACCCTGATGACCTGCGAAATGCTCAGGAAGA
 AGAGCGGTATGCAGATTGCTTTGAATGATCACTTAAAGCAGAGACGAGAAGTGGCCAAGACAGTCTTCTG
 CCTGGTCTCGTGTGCTCTCTGTTGGCTTCCCTTACCTCAGCCGGATCCTGAAGCTCACCTGTAT
 GACCAGACCAATCCACACAGGTGTGAGCTTCTGAGCTTTTGTGGTTTGGACTACATTGGTATCAACA
 TGGCTTCTTTGAACTCCTGCATCAATCCAATCGCTCTGTATTTGGTGGAGCAAAAGATTCAAAAACCTGCTT
 TAAGTCATGTTTGTGCTGCTGGTGCCAAACGTTTGGAGAAAAGCAGTCCCTTGGAGGAGAAGCAGTCTCTG
 CTGAAGTTCAAAGCCAACGATCACGGATATGACAACTTCCGGTCCAGCAATAAATACAGCTCGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222952 representing NM_001136061
 Red=Cloning site Green=Tags(s)

MQSPASRCGRALVALLACGFLGVWGEKRGFPPAQATLSLLGTKEVMTPTKTSWTRGSNSSLMRSSAPA
 EVTKGGRGAGVPPRSFPPPCQRNIEISKTFKYINTIVSCLVFLVGIIGNSTLLRIYKKNKMRNGPNILI
 ASLALGDLLHIIIDIPINTYKLLAEDWPFGAEMCKLVFPIQKASVGITVLSLICALSIDRYRAVASWSRIK
 GIGVPKWTAVEIVLIWVSVVLAPEAIGFDMITSDYKKGKPLRVCMLNPFQKTAQFMYKAKDWWLFSF
 YFCLPLAITAVFYTLMTCEMLRKKSGMQIALNDHLKQRREVAKTVFCLVLFALCWLPLHLSRILKLTLY
 DQSNPHRCELLSFLLVLDYIGINMASLNSCINPIALYLVSFRKFNCFKSCCLCCWCQTFFEEKQSLEEKQSC
 LKFKANDHGYDNFRSSNKYSSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9057_e01.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001136061

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_001136061.2](#), [NP_001129533.1](#)

RefSeq Size: 4191 bp

RefSeq ORF: 1329 bp

Locus ID: 13618

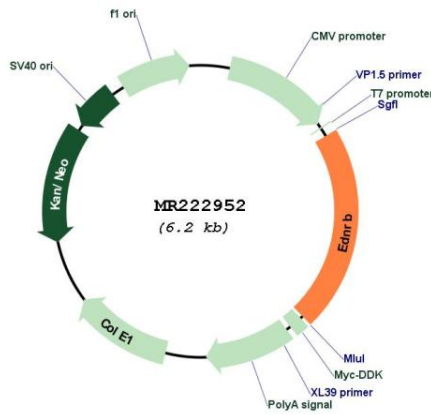
UniProt ID: [P48302](#)

Cytogenetics: 14 53.05 cM

MW: 49.6 kDa

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]

Product images:



Circular map for MR222952