

Product datasheet for **MG223067**

Ednrb (NM_007904) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ednrb (NM_007904) 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: >MG223067 representing NM_007904
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCAATCGCCGCAAGCCGGTGCAGCGCCTTGGTGGCGCTGCTGCTGGCCTGTGGCTTCTTGGGGG
 TATGGGGAGAGAAAAGAGGATCCACCTGCCAAGCCACGCTGTCACTTCTCGGACTAAAGAGGTAAT
 GACGCCACCCACTAAGACCTCCTGGACCAGAGGTTCCAACCTCCAGTCTGATGCGTTCTCCGCACCTGCC
 GAGGTGACCAAAGGAGGGAGGGGGCTGGAGTCCCGCAAGATCCTTCCCTCCTCGTGCCAACGAATA
 TTGAGATCAGCAAGACTTTTAAATACATCAACACGATTGTGTCGTGCCTCGTGTTCGTGCTAGGCATCAT
 CGGGAACCTCCACGCTGCTAAGAATCATCTACAAGAACAAAGTGCATGCGCAATGGTCCCAATATCTTGATC
 GCCAGTCTGGCTCTGGGAGACCTACTGCACATCATATAGACATACCCATTAACACCTACAAGTTGCTCG
 CAGAGGACTGGCCATTTGGAGCTGAGATGTGTAAGCTGGTGCCTTCATACAGAAGGCTTCTGTGGGAAT
 CACAGTGTGAGTCTTTGTGCTCTAAGTATTGACAGATATCGAGCTGTTGCTTCTTGAGTCAAGTAA
 GGAATTGGGGTCCAAAATGGACAGCAGTAGAAATGTTTTAATTTGGGTGGTCTCTGTGGTTCTGGCTG
 TCCCCGAAGCCATAGGTTTTGATGATTACGTCGGACTACAAAGGAAAGCCCTAAGGGTCTGCATGCT
 TAATCCCTTTAGAAAACAGCCTTCATGCAGTTTTACAAGACAGCCAAAGATTGGTGGCTGTTTCAGTTTC
 TACTTCTGCTTGCCGCTAGCCATCACTGCAGTCTTTTATACCCTGATGACCTGCGAAATGCTCAGGAAG
 AGAGCGGTATGCAGATTGCTTTGAATGATCACTTAAAGCAGAGACGAGAAGTGGCCAAGACAGCTTCTG
 CCTGGTCTCGTGTGTTGCTCTGTTGGCTTCCCTTCACCTCAGCCGGATCCTGAAGCTCACCTGTAT
 GACCAGAGCAATCCACACAGGTGTGAGCTTCTGAGCTTTTTGTTGGTTTTGGACTACATTGGTATCAACA
 TGGCTTCTTTGAACTCCTGCATCAATCCAATCGCTCTGTATTTGGTGGAGCAAAGATTCAAAAAGTCTT
 TAAGTCATGTTGTGCTGCTGGTCCAAACGTTTGAGGAAAAGCAGTCTTGGAGGAGAAGCAGTCTCGC
 CTGAAGTTCAAAGCCAACGATCACGGATATGACAACTCCGGTCCAGCAATAAATACAGCTCGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online >](#)

Protein Sequence: >MG223067 representing NM_007904
Red=Cloning site Green=Tags(s)

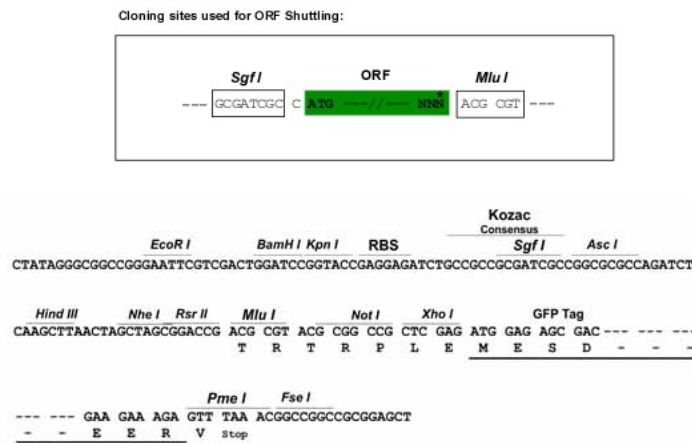
MQSPASRCGRALVALLACGFLGVWGEKRGFPPAQATLSLLGTKEVMTPTTKTSWTRGSNSSLMRSSAPA
 EVTKGGRGAGVPPRSFPQQRNIEISKTFKYINTIVSCLVFVVGIIIGNSTLLRIIYKNKCMRNGPNIL
 ASLALGDLHIIIDIPINTYKLLAEDWPFGAEMCKLVFQKASVGIITVLSLICALSIDRYAVASWSRIK
 GIGVPKWTAVEIVLIWVSVVLAPEAIGFDMITSDYKKGKPLRVCMLNPFQKTAFMQFYKAKDWWLFSF
 YFCLPLAITAVFYTLMTCEMLRKKSGMQIALNDHLKQRREVAKTVFCLVLFALCWLPLHLSRILKLTLY
 DQSNPHRCELLSFLVLVDYIGINMASLNSCINPIALYL VSKRFKNCFKSCLCCWCQTFEEKQSLEEKQSC
 LKFKANDHGYDNFRSSNKYSSS

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3471_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_007904

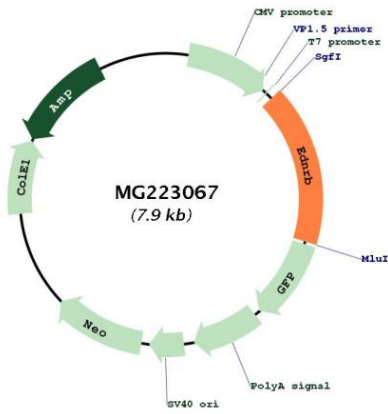
ORF Size: 1326 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_007904.4 , NP_031930.1
RefSeq Size:	4005 bp
RefSeq ORF:	1329 bp
Locus ID:	13618
UniProt ID:	P48302
Cytogenetics:	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]

Product images:



Circular map for MG223067