

Product datasheet for **MG202095**

Edn1 (NM_010104) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Edn1 (NM_010104) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Edn1
Synonyms: ET-1; PPET1; preproET
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG202095 representing NM_010104
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGATTATTTCCCGTGATCTTCTCTGCTGTTCTGCTGACTTTCCAAGGAGCTCCAGAAACAGCTGTCT
TGGGAGCCGAACCTCAGCACCGGAGCTGAGAATGGAGTGCAGAGCCCCCTCCAGCACACCTGGAGACC
CCGAGGTCCAAGCGCTGTTCTTCTCCTTGATGGACAAGGAGTGTGTCTACTTCTGCCACCTGGAC
ATCATCTGGGTCAACACTCCCGAGCGCTCGTACCGTATGGACTGGGAGTTCTTCCAGGTCCAAGCGTT
CCTTGAAAGACTTACTTCCAATAAGGCCACAGACCAGGCAGTTAGATGTCAGTGCCTCACCAAAAGA
CAAGAAGTGCTGGAATTTCTGCCAAGCAGGAAAAGAACTAGGGCCCAAAGTACCATGCAGAAAAGCTTA
AAAGACTCCAAGAAAGGAAAACCTGTTCCAAGTTGGGAAAGAAGTGTATCTATCAGCAGCTGGTGAAG
GAAGGAACTACGAAGTTGGAGGCCATCAGCAATAGCATCAAGGCATCTTTTCGTGTTGCAAAGTTGAA
AGCTGAGCTCTATAGAGACCAGAAGTTGACGCACAACCGAGCACAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG202095 representing NM_010104
Red=Cloning site Green=Tags(s)

MDYFPVIFSLFVTFQGAPETAVLGAELSTGAENGVSPPPSTPWRPRRSKRCSSSLMDKECVYFCHLD
 IIVVNTPERVVPYGLGGSSRSKSLKDLLPNKATDQAVRCQCAHQKDKKWNFCQAGKELRAQSTMQKSL
 KDSKKGKPCSKLGKKCIYQQLVEGRKLRRLEAISNSIKASFRVAKLKAELYRDQKLTHNRAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_010104

ORF Size: 606 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.

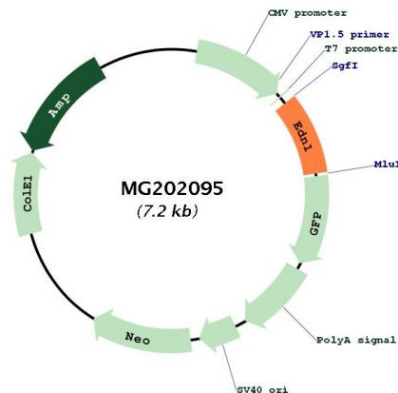
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_010104.4</u>
RefSeq Size:	2153 bp
RefSeq ORF:	609 bp
Locus ID:	13614
UniProt ID:	<u>P22387</u>
Cytogenetics:	13 20.82 cM
Gene Summary:	This gene encodes a member of the endothelin family of peptides. The encoded preproprotein undergoes proteolytic processing to generate a peptide before secretion by the vascular endothelial cells. The mature peptide has various biological activities such as vasoconstriction, cell proliferation, stimulation of hormone release and modulation of central nervous activity. Mice lacking the encoded protein exhibit neonatal lethality accompanied with numerous craniofacial and cardiovascular defects due to disruption in cranial and cardiac neural crest cell patterning during early embryogenesis. [provided by RefSeq, Feb 2016]

Product images:



Circular map for MG202095