

## 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGATTATTTCCCGTGATCTTCTCTGCTGTTCTGACTTTCCAAGGAGCTCCAGAAACAGCTGTCT  
 TGGGAGCCGAACCTCAGCACCGGAGCTGAGAATGGAGTGCAGAGCCCCCTCCAGCACACCTGGAGACC  
 CCGCAGGTCCAAGCGCTGTTCTGTTCTCCTTGATGGACAAGGAGTGTGTCTACTTCTGCCACCTGGAC  
 ATCATCTGGGTCAACACTCCCGAGCGCTCGTACCGTATGGACTGGGAGTTCTCCAGGTCCAAGCGTT  
 CCTTGAAGACTTACTTCCAATAAGGCCACAGACCAGGCAGTTAGATGTCAGTGCCTCACAAAAAGA  
 CAAGAAGTGTGGAATTTCTGCCAAGCAGGAAAAGAACTCAGGGCCAAAGTACCATGCAGAAAAGCTTA  
 AAAGACTCCAAGAAAGGAAAACCTGTTCCAAGTTGGGAAAGAAGTGTATCTATCAGCAGCTGGTGGAA  
 GAAGGAAACTACGAAGTTGGAGGCCATCAGCAATAGCATCAAGGCATCTTTTCGTGTTGCAAAAGTTGAA  
 AGCTGAGCTCTATAGAGACCAGAAGTTGACGCACAACCGAGCACAT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG202095 representing NM\_010104  
 Red=Cloning site Green=Tags(s)

MDYFPVIFSLLFVTFQGAPETA VLGAELSTGAENGVSPPPSTPWRPRRSKRCSLMDKECVYFCHLD  
 I IWVNTPERVVPYGLGGSSRSKRSLKDLLPNKATDQAVRCQCAHQKDKKWNFCQAGKELRAQSTMQKSL  
 KDSKKGKPCSKLGGKCIYQQLVEGRKLRRLEAISNSIKASFRVAKLKAELYRDQKLTHNRAH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**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](mailto: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.

**RefSeq:** [NM\\_010104.4](#)

**RefSeq Size:** 2153 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 13614

**UniProt ID:** [P22387](#)

**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]