

## Product datasheet for **RR215408**

### Edn1 (NM\_012548) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Edn1 (NM\_012548) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Edn1  
**Synonyms:** Et1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR215408 representing NM\_012548  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATTATTTCCCGTGATCTTCTCTCTGCTGTTTGTGGCTTCCAAGGAGCTCCAGAAACAGCTGTCT  
TGGGAGCAGAGCTCAGCCCCGAGCTGAGAAGGAAGTGCAGAGCCCCCTCCAGCACATCTGGAGACC  
CCGCAGGTCCAAGCGTTGCTCCTGCTCCTTGTGATGGACAAGGAGTGTGTCTACTTCTGCCACCTGGAC  
ATCATCTGGGTCAACACTCCCGAGCGCTCGTCCCGTATGGACTAGGAAGCCCTTCTAGGTCTAAGCGAT  
CCTTGAAGACTTACTTCCCACAAGACCACAGACCAAGGGAACAGATGCCAGTGTGCTCACAAAAAGA  
CAAGAAGTGTGGAATTTCTGCCAAGCAGACAAAGAACTCCGAGCCCAAAGTACCATGCAGAAAGGCGTA  
AAAGACTTCAAGAAGGGAAAACCTGTCCCAAGCTGGGAAAGAAGTGTATCTATCAGCAGCTGGTGGAGG  
GAAGAAAATAAGAAGTTGGAGGCCATCAGCAACAGCATCAAGACCTCCTTTGAGTTGCAAAAGTTGAA  
AGCGGAAGTCTACAGAGACCAGAAGTTGATACACAACCGAGCACAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215408 representing NM\_012548  
Red=Cloning site Green=Tags(s)

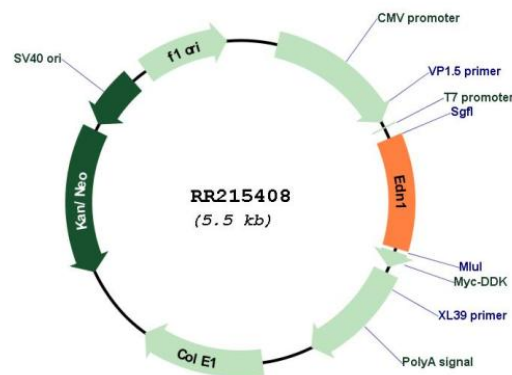
MDYFPVIFSLFVAFQGAPETA VLGAELSPRAEKEVQSPPPSTSWRPRRSKRCSLMDKECVYFCHLD  
IIWNTPERVVPYGLGSPSRSLKDLLPTKTTDQGNRCQCAHQDKKCNFCQADKELRAQSTMQKGV  
KDFKKGKPCPKLGKKCIYQLVEGRKLRRLEAISNSIKTSFRVAKLKAELYRDQKLIHNRAH

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_012548

**ORF Size:** 606 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\\_012548.2](#), [NP\\_036680.1](#)

**RefSeq Size:** 1390 bp

**RefSeq ORF:** 609 bp

**Locus ID:** 24323

**UniProt ID:** [P22388](#)

**Cytogenetics:** 17p13

**MW:** 23.1 kDa

**Gene Summary:** activates ERK1/2 mediated signaling; may play a role in regulation of cardiac contractile force [RGD, Feb 2006]