

Product datasheet for **RR215309**

Edf1 (NM_001106557) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Edf1 (NM_001106557) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Edf1
Synonyms: CAP-19
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215309 representing NM_001106557
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGAGAGTGACTGGGACACCGTGACGGTGTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGT
CTAAGCAGGCCATCTTAGCAGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAAAATGGCTGTGG
CCAGAACAAGCAGCATTCCATCACTAAAAACACAGCCAAGCTAGACCGGGAGACAGAGGAGCTGCACCAC
GACAGGGTGACCTGGAGGTGGCAAAAGTGATCCAGCGGGGCCGGCAGAGCAAAGGCTGACGCAGAAGG
ACCTGGCCACGAAAATCAATGAAAAGCCGCAAGTCATCGCAGACTATGAAAGTGGACGGGCCATTCCGAA
TAACAGGTTTTGGGCAAATTGAGAGGCCATCGGCCTCAAGCTCCGGGGGAAGGACATCGGGAAGCCT
ATCGAGAAGGGCCGAAGGCGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215309 representing NM_001106557
Red=Cloning site Green=Tags(s)

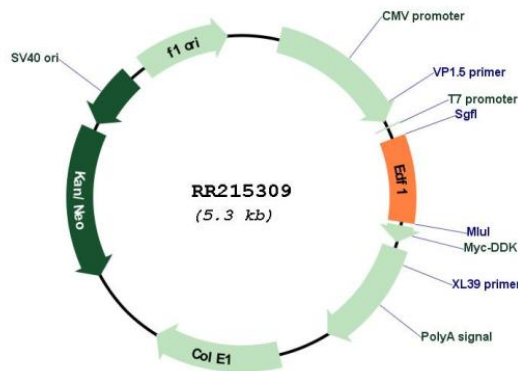
MAESDWDVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHH
DRVTLEVGKVIQRGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLGRKDIGKP
IEKGPKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001106557

ORF Size: 444 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:	<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:	<u>NM_001106557.1</u> , <u>NP_001100027.1</u>
RefSeq Size:	685 bp
RefSeq ORF:	447 bp
Locus ID:	296570
UniProt ID:	<u>P69736</u>
Cytogenetics:	3p13
MW:	16.4 kDa
Gene Summary:	Transcriptional coactivator stimulating NR5A1 and ligand-dependent NR1H3/LXRA and PPARG transcriptional activities. Enhances the DNA-binding activity of ATF1, ATF2, CREB1 and NR5A1. Regulates nitric oxid synthase activity probably by sequestering calmodulin in the cytoplasm. Might function in endothelial cells differentiation, hormone-induced cardiomyocytes hypertrophy and lipid metabolism (By similarity).[UniProtKB/Swiss-Prot Function]