

Product datasheet for **MG201022**

Edf1 (NM_021519) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Edf1 (NM_021519) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Edf1
Synonyms: 0610008L11Rik; AA409425
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201022 representing NM_021519
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGAGAGTGACTGGGACACCGTGACGGTGTGCGCAAGAAGGGCCCCACGGCCGCACAGGCCAAGT
CTAAGCAGGCCATCTTAGCGGCTCAGCGACGAGGAGAAGATGTGGAGACATCCAAGAAATGGGCTGCTGG
CCAGAACAAGCAGCATTCCATTACTAAAAACAGCCAAGCTCGACCGGGAGACCGAGGAGCTGCATCAC
GACAGGGTGACCCTGGAGGTGGCAAAGTGATCCAGCGGGGCCGGCAGAGCAAAGGCCTGACCCAGAAGG
ACCTGGCCACGAAAATCAATGAGAAGCCGCAAGTCATCGCAGACTATGAAAGTGGACGGGCCATTCCGAA
TAACCAGTTTTGGGCAAATTGAGAGGCCATCGGCCTCAAGCTCCGGGGGAAGGACATCGGGAAGCCT
ATCGAGAAGGGCCGAAGGCCGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201022 representing NM_021519
Red=Cloning site Green=Tags(s)

MAESDWDVTVLRKKGPTAAQAKSKQAILAAQRRGEDVETSKKWAAGQNKQHSITKNTAKLDRETEELHH
DRVTLVGVKVIQRGRQSKGLTQKDLATKINEKPQVIADYESGRAIPNNQVLGKIERAIGLKLKRGKIDIGKP
IEKGPKAK

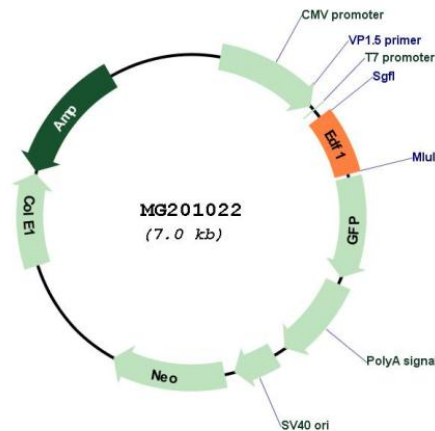
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_021519

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_021519.2</u>
RefSeq Size:	678 bp
RefSeq ORF:	447 bp
Locus ID:	59022
UniProt ID:	<u>Q9JMG1</u>
Cytogenetics:	2 A3
Gene Summary:	Transcriptional coactivator stimulating NR5A1 and ligand-dependent NR1H3/LXRA and PPAR γ 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]