

Product datasheet for MG216114

Fndc5 (NM_027402) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Fndc5 (NM_027402) Mouse Tagged ORF Clone

Tag: TurboGFP

Symbol: Fndc5

Synonyms: 1500001L03Rik; Al836596; C87088; P; PeP; Pxp

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG216114 representing NM_027402

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG216114 representing NM_027402

Red=Cloning site Green=Tags(s)

MPPGPCAWPPRAALRLWLGCVCFALVQADSPSAPVNVTVRHLKANSAVVSWDVLEDEVVIGFAISQQKKD VRMLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAISIQGQSPASEPVLFKTPREAEKMASKNKDEVTMKE MGRNQQLRTGEVLIIVVVLFMWAGVIALFCRQYDIIKDNEPNNNKEKTKSASETSTPEHQGGGLLRSKI

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2279 b04.zip



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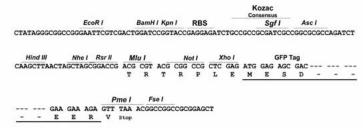


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





ACCN: NM_027402

ORF Size: 627 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.



RefSeq: <u>NM 027402.4</u>

 RefSeq Size:
 2718 bp

 RefSeq ORF:
 630 bp

 Locus ID:
 384061

 UniProt ID:
 Q8K4Z2

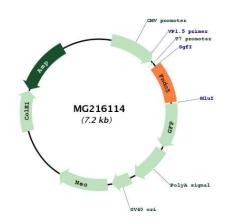
 Cytogenetics:
 4 D2.2

Gene Summary: This gene encodes a type I transmembrane protein containing fibronectin type III repeat. The

encoded transmembrane protein undergoes proteolytic processing to generate a soluble hormone named irisin that is secreted into the bloodstream. The expression of this gene followed by the secretion of irisin from skeletal muscle is induced by exercise. The ectopic expression of the encoded protein in mice causes an elevation of irisin in blood and improves

metabolic health. [provided by RefSeq, Jul 2016]

Product images:



Circular map for MG216114