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; AI836596; C87088; PeP; Pxp
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 µg/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence:

TTTTGTAATACTACATAAGGCAGGCGGAGTAATTCGTGACTGGATCCGCCGTGCCGATGTCC

AGAAGCTCAAGATATATCGTCCATGTGCAGGCCATCTCCATCCAGGGACAGAGCCCAGCCAGTGAGCCTGTGCTCTTCAAGACCCCACGCGAGGCTGAAAAGATGGCCTCAAAGAACAAAGATGAGGTGACCATGAAGGAGATGGGGAGGAACCAGCAGCTGCGAACGGGGGAGGTGCTGATCATTGTTGTGGTCCTCTTCATGTGGGCAGGTGTTATAGCTCTCTTCTGCCGCCAGTATGATATCATCAAGGACAACGAGCCCAATAACAACAAGGAGAAACCAAGAGCGCATCAGAAACCAGCACACCGGAGCATCAGGGTGGGGGTCTCCTCCGCAGCAAGATACGCGTACGCGGCCGCTCGAG - GFP Tag -

Protein Sequence:

MPPGPCLWPNTPLWLCVCFALQVADSPSAPVNTVRHLKANSAYVSVWOVDLWEDVIGFAISQKKDRVMLRLFRQQEVTNRTRSCALWLEEDTUYHVQAIQSQSAPFVLFKTPREAEMASKNMDKVDMTEKMGRNQQLRTEVGLVVIIVVLFMWAGIALFCRQYDIIKDNENPNNNKEKTSASATSTPHEQGGGLLMRSLK

TrPRE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2279_b04.zip

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This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
Restriction Sites: SgfI-MluI

Cloning Scheme:

Plasmid Map:

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.

RefSeq: NM_027402.3, NP_081678.1
RefSeq Size: 2718 bp
RefSeq ORF: 630 bp
Locus ID: 384061
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]