

Product datasheet for **MR216114**

Fndc5 (NM_027402) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fndc5 (NM_027402) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fndc5
Synonyms: 1500001L03Rik; AI836596; C87088; P; PeP; Pxp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216114 representing NM_027402
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCCAGGGCCGTGCGCCTGGCCGCCCGCGCCGCGCTCCGCCTGTGGCTAGGCTGCGTCTGCTTCG
CGCTGGTGCAGGCGGACAGCCCCCTAGCCCCGTGAACGTGACCGTCCGGCACCTCAAGGCCAACTCTGC
CGTGGTCAGCTGGGATGTCCTGGAGGATGAAGTGGTCATTGGCTTTGCCATCTCTCAGCAGAAGAAGGAT
GTGCGGATGCTCCGGTTCATTAGGAGGTGAACACCACCACCCGGTCTGCGCTCTCTGGGACCTGGAGG
AGGACACAGAATATATCGTCCATGTGCAGGCCATCTCCATCCAGGACAGAGCCCAGCCAGTGAGCCTGT
GCTCTTCAAGACCCACGCGAGGCTGAAAAGATGGCCTCAAGAACAAGATGAGGTGACCATGAAGGAG
ATGGGGAGGAACAGCAGCTGCGAACGGGGGAGGTGCTGATCATTGTTGGTCTCTTTCATGTGGGCAG
GTGTTATAGCTCTTCTGCCGCCAGTATGATATCATCAAGGACAACGAGCCCAATAACAACAAGGAGAA
AACCAAGAGCGCATCAGAAACCAGCACACCCGGAGCATCAGGGTGGGGTCTCTCCCGCAGCAAGATA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI



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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: [NM_027402.4](#)

RefSeq Size: 2718 bp

RefSeq ORF: 630 bp

Locus ID: 384061

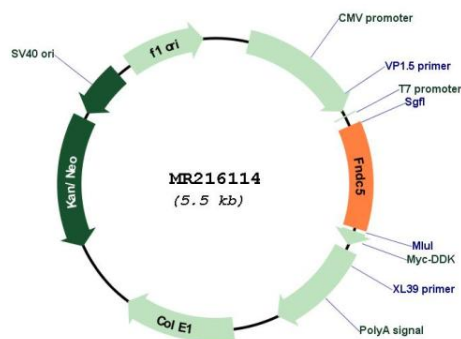
UniProt ID: [Q8K4Z2](#)

Cytogenetics: 4 D2.2

MW: 23.8 kDa

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 MR216114