

Product datasheet for RC229535

FNDC5 (NM_001171940) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FNDC5 (NM_001171940) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FNDC5
Synonyms: FRCP2; irisin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC229535 representing NM_001171940
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATACACCCGGGTCGCCGAGCGCCTGGCCGCCCGCCCGCCGCGCTCCGCCTGGCTGGGCTGCC
TCTGCTTCGCGCTGGTGCAGGCGGACAGTCCCTCAGCCCCAGTGAACGTCACCGTCAGGCACCTCAAGGC
CAACTCTGCAGTGGTGGCTGGGATGTTCTGGAGGATGAGGTTGCATCGGATTTGCCATCTCCCAGCAG
AAGAAGGATGTGCGGATGCTGCGCTTCATCCAGGAGGTGAACACCACCACCGCTCATGTGCCCTCTGGG
ACCTGGAGGAGGATACGGAGTACATAGTCCACGTGCAGGCCATCTCCATTAGGGCCAGAGCCCAGCCAG
CGAGCCTGTGCTCTTCAAGACCCCGCTGAGGCTGAGAAGATGGCCTCCAAGAACAAGATGAGGTAACC
ATGAAAGAGATGGGGAGGAACCAACAGCTGCGGACAGGCGAGGTGCTGATCATCGTCTGGTCTGTTC
TGTGGGACAGGTGTCATTGCCCTTTCTGCCCCAGTATGACATCATTGAAGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC229535 representing NM_001171940
Red=Cloning site Green=Tags(s)

IHPGSPSAWPPRARAALRLWLCVCFALVQADSPSAPVNVTVRHLKANSVVSWDVLDEVVIGFAISQQ
KKDVRMLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAIISIQQSPASEPVLFKTPREAEMASKNKDEVT
MKEMGRNQQLRTGEVLIIVVLFMWAGVIALFCRQYDII EA

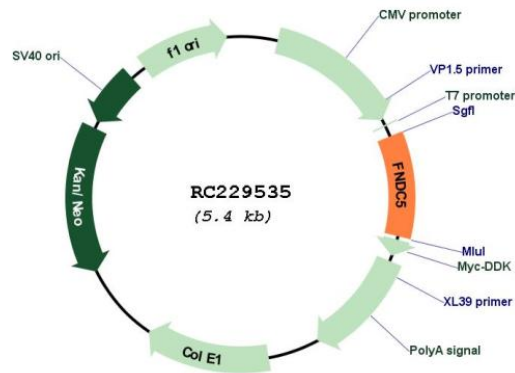
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001171940

ORF Size: 543 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_001171940.2</u>
RefSeq Size:	2099 bp
RefSeq ORF:	546 bp
Locus ID:	252995
UniProt ID:	<u>Q8NAU1</u>
Cytogenetics:	1p35.1
Protein Families:	Transmembrane
MW:	20.3 kDa
Gene Summary:	This gene encodes a secreted protein that is released from muscle cells during exercise. The encoded protein may participate in the development of brown fat. Translation of the precursor protein initiates at a non-AUG start codon at a position that is conserved as an AUG start codon in other organisms. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]