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Product datasheet for RC212977

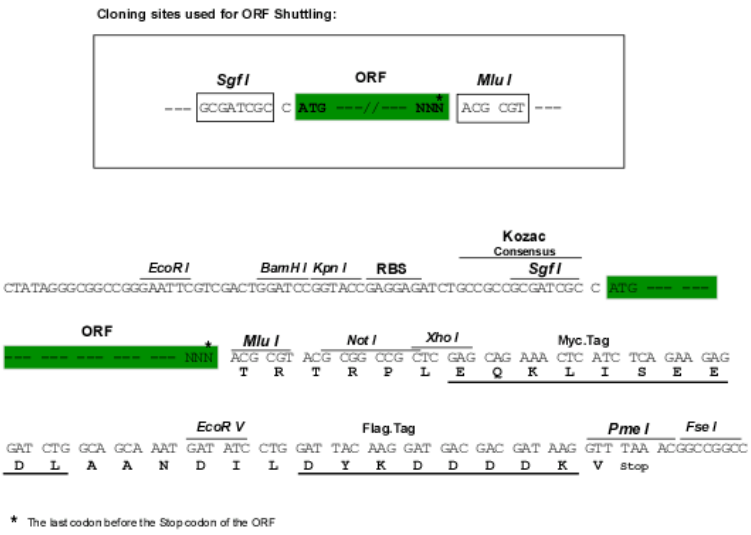
FNDC5 (NM_153756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNDC5 (NM_153756) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FNDC5
Synonyms:	FRCP2; irisin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212977 representing NM_153756 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGCGCTTCATCCAGGAGGTGAACACCACCACCCGCTCATGTGCCCTCTGGGACCTGGAGGAGGATA CGGAGTACATAGTCCACGTGCAGGCCATCTCCATTCAGGGCCAGAGCCCAGCCAGCGAGCCTGTGCTCTT CAAGACCCCGCGTGAGGCTGAGAAGATGGCCTCCAAGAACAAAGATGAGGTAACCATGAAAGAGATGGGG AGGAACCAACAGCTGCGGACAGGCGAGGTGCTGATCATCGTCGTGGTCCTGTTCATGTGGGCAGGTGTCA TTGCCCTCTTCTGCCGCCAGTATGACATCATCAAGGACAATGAACCCAATAACAACAAGGAAAAAACCAA GAGTGCATCAGAAACCAGCACACCAGAGCACCAGGGCGGGGGGCTTCTCCGCAGCAAGATA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC212977 representing NM_153756 Red=Cloning site Green=Tags(s) MLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAISIQGQSPASEPVLFKTPREAEKMASKNKDEVTMKEMG RNQQLRTGEVLIIVVVLFMWAGVIALFCRQYDIIKDNEPNNNKEKTKSASETSTPEHQGGGLLRSKI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6497_h04.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN: NM_153756

ORF Size: 411 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:
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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

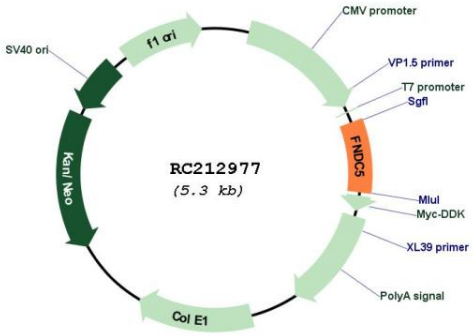
RefSeq: NM_153756.1, NP_715637.1

RefSeq Size: 2657 bp

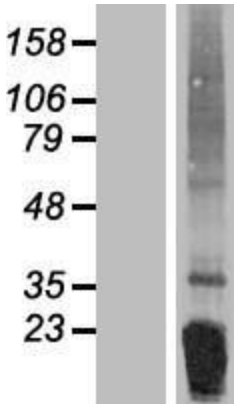
RefSeq ORF: 639 bp

Locus ID:	252995
UniProt ID:	Q8NAU1
Cytogenetics:	1p35.1
Protein Families:	Transmembrane
MW:	15.3 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]

Product images:



Circular map for RC212977



Western blot validation of overexpression lysate (Cat# [LY406946]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212977 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).