

Product datasheet for **SC108075**

FNDC5 (NM_153756) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNDC5 (NM_153756) Human Untagged Clone
Tag:	Tag Free
Symbol:	FNDC5
Synonyms:	FRCP2; irisin
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108075 sequence for NM_153756 edited (data generated by NextGen Sequencing)

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ATGCTGCGCTTCATCCAGGAGGTGAACACCACCACCCGCTCATGTGCCCTCTGGGACCTG
GAGGAGGATACGGAGTACATAGTCCACGTGCAGGCCATCTCCATTCAGGGCCAGAGCCCA
GCCAGCGAGCCTGTGCTCTTCAAGACCCCGGTGAGGCTGAGAAGATGGCCTCCAAGAAC
AAAGATGAGGTAACCATGAAAGAGATGGGGAGGAACCAACAGCTGCGGACAGGCGAGGTG
CTGATCATCGTCGTGGTCTGTTTCATGTGGGCAGGTGTCATTGCCCTCTTCTGCCGCCAG
TATGACATCATCAAGGACAATGAACCCAATAACAACAAGGAAAAAACAAGAGTGTCATCA
GAAACCAGCACACCAGAGCACCAGGGCGGGGGCTTCTGCGCAGCAAGATATGA
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Clone variation with respect to NM_153756.2
399 c=>g



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_153756 unedited GGGTGCAAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAAATTCGCACGAGGGCGC TTGTCTGCAGAAGAAGATGTGCGGATGCTGCGCTTCATCCAGGAGGTGAACACCACCACC CGCTCATGTGCCCTCTGGGACCTGGAGGAGGATACGGAGTACATAGTCCACGTGCAGGCC ATCTCCATTACAGGGCCAGAGCCCAGCCAGCGAGCCTGTGCTCTTCAAGACCCCGCGTGAG GCTGAGAAGATGGCCTCCAAGAACAAGATGAGGTAACCATGAAAGAGATGGGGAGGAAC CAACAGCTGCGGACAGGCGAGGTGCTGATCATCGTCGTGGTCCTGTTTCATGTGGCAGGT GTCATTGCCCTCTTCTGCCGCCAGTATGACATCATCAAGGACAATGAACCAATAACAAC AAGGAAAAAACAAGAGTGCATCAGAAACCAGCACACCAGAGCACCAGGGCGGGGGCTT CTGCGCAGCAAGATATGAAAACCTTTTCAGTGCTTGCCTCAGCAGCTAAGAAGACAGAC AGTAGAGAATGTGAGAGGATCTCATGGTTCTGATGATGATTATCCAACAAACATCTGGCC CTCTCTACATCTTCCCTCCATCTCCTTGTACCCTCTGGCTTACTGTCCTCTCTCTGGC GCACTTTCCTGAAGCCTTTATTAACCTCCATCTCCAGAAGCACCTCAACAATGTCAGTG GCTGAGGCTGCACTCAGAGGGATGACTGCTGGNGGTAGAAGTGGGTGCCANGGGCCATGG GCCAGGACCCAGTCTTGCCATTANTTGAGTGAGGCTGAAGGGCTGGTTNGAAAAGGCA NAAAGACAGAATNCAGCAGGGCTTCTTTCTTTTACAGGGACAGAGCTGGGCTTATTAG CTACANCTGCTGCTGTNCTTNTCTCTGNCTGTTNCA
Restriction Sites:	NotI-NotI
ACCN:	NM_153756
Insert Size:	2750 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	NM_153756.1 , NP_715637.1
RefSeq Size:	2657 bp
RefSeq ORF:	414 bp
Locus ID:	252995
UniProt ID:	Q8NAU1
Cytogenetics:	1p35.1
Protein Families:	Transmembrane

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]

Transcript Variant: This variant (2) contains multiple differences in the UTRs and coding region, compared to variant 1. It initiates translation from an alternate 'AUA' start codon that is conserved as an 'AUG' start codon in orthologs. The encoded isoform (2) is longer and has distinct N- and C-termini, compared to isoform 1.