

Product datasheet for **RG229598**

FNDC5 (NM_001171941) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FNDC5 (NM_001171941) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FNDC5
Synonyms: FRCP2; irisin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229598 representing NM_001171941
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCGCTTCATCCAGGAGGTGAACACCACCACCCGCTCATGTGCCCTCTGGGACCTGGAGGAGGATA
CGGAGTACATAGTCCACGTGCAGGCCATCTCCATTCAGGGCCAGAGCCCAGCCAGCGAGCCTGTGCTCTT
CAAGACCCCGGTGAGGCTGAGAAGATGGCCTCCAAGAACAAGATGAGGTAACCATGAAAGAGATGGGG
AGGAACCAACAGCTGCGGACAGGCGAGGTGCTGATCATCGTCGTGGTCTGTTCATGTGGCAGGTGTCA
TTGCCCTTTCTGCCGCCAGTATGACATCATCAAGGACAATGAACCAATAACAACAAGGAAAAACCAA
GAGTGCATCAGAAACCAGCACACCAGAGCACCAGGGCGGGGGCTTCTCCGCAGCAAGGTGAGGGCAAGA
CCTGGGCTGGTGGGCCACCCTGTGCCTCATGCTCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229598 representing NM_001171941
Red=Cloning site **Green**=Tags(s)

MLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAIISIQQSPASEPVLFKTPREAEKMASKNKDEVTMKEMG
RNQQLRTGEVLIIVVLFMWAGVIALFCRQYDIKDNPNNNKEKTKSASETSTPEHQGGLLRSKVRAR
PGPGWATLCLMLW

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3103_d11.zip

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_001171941

ORF Size: 459 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_001171941.3](#)

RefSeq Size: 3035 bp

RefSeq ORF: 462 bp

Locus ID: 252995

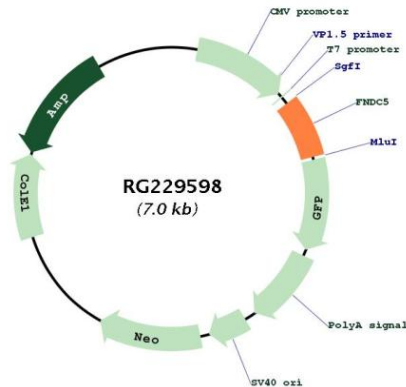
UniProt ID: [Q8NAU1](#)

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]

Product images:



Circular map for RG229598