

## Product datasheet for **RG229535**

### **FNDC5 (NM\_001171940) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FNDC5 (NM\_001171940) 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:** >RG229535 representing NM\_001171940  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGCGCTTCATCCAGGAGGTGAACACCACCACCCGCTCATGTGCCCTCTGGGACCTGGAGGAGGATA  
CGGAGTACATAGTCCACGTGCAGGCCATCTCCATTCAGGGCCAGAGCCAGCCAGCGAGCCTGTGCTCTT  
CAAGACCCCGGTGAGGCTGAGAAGATGGCCTCCAAGAACAAGATGAGGTAACCATGAAAGAGATGGGG  
AGGAACCAACAGCTGCGGACAGGCGAGGTGCTGATCATCGTCGTGGTCTGTTCATGTGGCAGGTGTCA  
TTGCCCTCTTGCCGCCAGTATGACATCATTGAAGCG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229535 representing NM\_001171940  
**Red**=Cloning site **Green**=Tags(s)  
MLRFIQEVNTTTRSCALWDLEEDTEYIVHVQAIISIQGQSPASEPVLFKTPREAEKMASKNKDEVTKEMG  
RNQQLRTGEVLIIVVLFMWAGVIALFCRQYDII EA

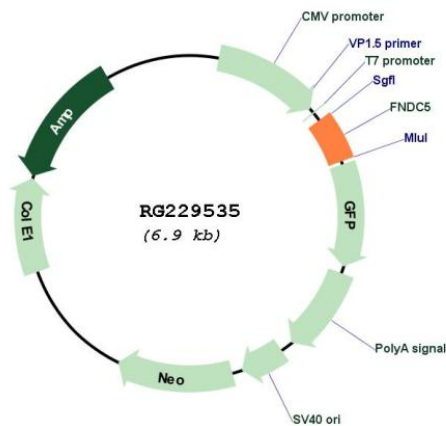
**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001171940.1</a></u> , <u><a href="#">NP_001165411.2</a></u>
<b>RefSeq Size:</b>	2099 bp
<b>RefSeq ORF:</b>	546 bp
<b>Locus ID:</b>	252995
<b>UniProt ID:</b>	<u><a href="#">Q8NAU1</a></u>
<b>Cytogenetics:</b>	1p35.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]