

## **Product datasheet for RG216169**

## NPVF (NM\_022150) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Tag: TurboGFP

Symbol: NPVF

**Synonyms:** C7orf9; RFRP

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216169 representing NM\_022150

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAAATTATTTCATCAAAACTATTCATTTTATTGACTTTAGCCACTTCAAGCTTGTTAACATCAAACA
TTTTTTGTGCAGATGAATTAGTGATGTCCAATCTTCACAGCAAAGAAAATTATGACAAATATTCTGAGCC
TAGAGGATACCCAAAAGGGGAAAGAAGCCTCAATTTTGAGGAATTAAAAGATTGGGGACCAAAAAATGTT
ATTAAGATGAGTACACCTGCAGTCAATAAAATGCCACACTCCTTCGCCAACTTGCCATTGAGATTTGGGA
GGAACGTTCAAGAAGAAAGAAGTGCTGGAGCAACAGCCAACCTGCCTCTGAGATCTGGAAGAAAATATGGA
GGTGAGCCTCGTGAGACGTGTTCCTAACCTGCCCCAAAGGTTTGGGAGAACAACAACAGCCAAAAGTGTC
TGCAGGATGCTGAGTGATTTGTGTCAAGGATCCATGCATTCACCATGTGCCAATGACTTATTTTACTCCA
TGACCTGCCAGCACCAAGAAATCCAGAATCCCGATCAAAAACAGTCAAGGAGACTGCTATTCAAGAAAAT

AGATGATGCAGAATTGAAACAAGAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG216169 representing NM\_022150

Red=Cloning site Green=Tags(s)

MEIISSKLFILLTLATSSLLTSNIFCADELVMSNLHSKENYDKYSEPRGYPKGERSLNFEELKDWGPKNV IKMSTPAVNKMPHSFANLPLRFGRNVQEERSAGATANLPLRSGRNMEVSLVRRVPNLPQRFGRTTTAKSV

CRMLSDLCQGSMHSPCANDLFYSMTCQHQEIQNPDQKQSRRLLFKKIDDAELKQEK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



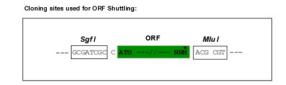
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

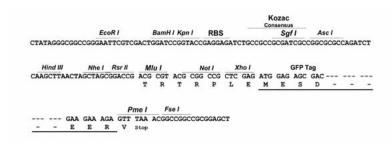
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

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## **Cloning Scheme:**





**ACCN:** NM\_022150

ORF Size: 588 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:** <u>NM\_022150.2</u>, <u>NP\_071433.2</u>

RefSeq Size: 1190 bp



## NPVF (NM\_022150) Human Tagged ORF Clone | RG216169

RefSeq ORF: 591 bp

**Locus ID:** 64111

UniProt ID: Q9HCQ7

Cytogenetics: 7p15.3

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: Neuropeptide RFRP-1 acts as a potent negative regulator of gonadotropin synthesis and

secretion. Neuropeptides NPSF and NPVF efficiently inhibit forskolin-induced production of cAMP, but RFRP-2 shows no inhibitory activity. Neuropeptide RFRP-1 induces secretion of prolactin in rats. Neuropeptide NPVF blocks morphine-induced analgesia. [UniProtKB/Swiss-

Prot Function]