

# Product datasheet for RG227809

## 9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com

OriGene Technologies, Inc.

EU: info-de@origene.com CN: techsupport@origene.cn

# P311 (NREP) (NM\_001142474) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** P311 (NREP) (NM\_001142474) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: NREP

**Synonyms:** C5orf13; D4S114; P311; PRO1873; PTZ17; SEZ17

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

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

ORF Nucleotide >RG227809 representing NM\_001142474
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CAAGAATCAGTTACCTCCACTTTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227809 representing NM\_001142474

Red=Cloning site Green=Tags(s)

MKGVWNYSALSRREDETRTQRSRMTDRVPCSKCFQVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEV

NRKKNDETNAASLTPLGSSELRSPRISYLHFF

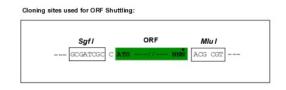
TRTRPLE - GFP Tag - V

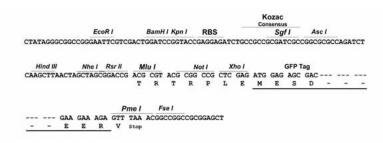
Restriction Sites: Sgfl-Mlul



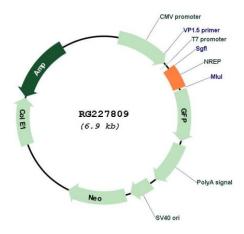


#### **Cloning Scheme:**





#### Plasmid Map:



**ACCN:** NM 001142474

ORF Size: 306 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



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**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: <u>NM 001142474.2</u>

RefSeq Size: 2119 bp
RefSeq ORF: 309 bp
Locus ID: 9315
Cytogenetics: 5q22.1

**Gene Summary:** May have roles in neural function. Ectopic expression augments motility of gliomas. Promotes

also axonal regeneration (By similarity). May also have functions in cellular differentiation (By similarity). Induces differentiation of fibroblast into myofibroblast and myofibroblast ameboid migration. Increases retinoic-acid regulation of lipid-droplet biogenesis (By similarity). Down-regulates the expression of TGFB1 and TGFB2 but not of TGFB3 (By similarity). May play a role

in the regulation of alveolar generation.[UniProtKB/Swiss-Prot Function]