

## Product datasheet for **RC227809**

### **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:** Myc-DDK  
**Symbol:** NREP  
**Synonyms:** C5orf13; D4S114; P311; PRO1873; PTZ17; SEZ17  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC227809 representing NM\_001142474  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAAAGGAGTTTGAATTATTCTGCTTTGAGCCGAAGAGAAGATGAAACACGAACCCAGAGGAGCAGGA**  
**TGACAGACAGAGTCCCTTGTTCCAAATGTTCCAGGTTTATTACCCAGAACTCTTTGTCTGGGTCAGTCA**  
**AGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCTGTCCCAAAGGAAGTG**  
**AACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCCGCTCCC**  
**CAAGAATCAGTTACCTCCACTTTTTT**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC227809 representing NM\_001142474  
**Red=Cloning site Green=Tags(s)**

MKGVWNYALSRRREDETRTQRSRMTDRVPCSKCFQVYYPELFWVWSQEPFPNKDMEGRLPKGRLPVPKEV  
NRKKNDETNAASLTPLGSSELRSRISYLHFF

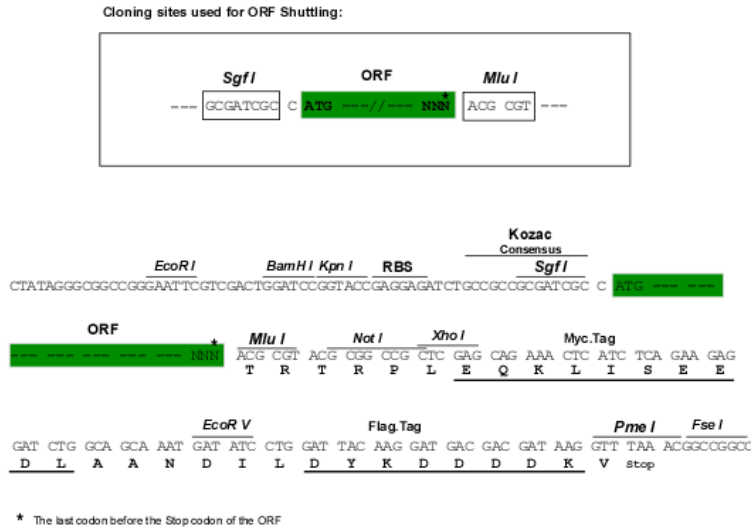
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

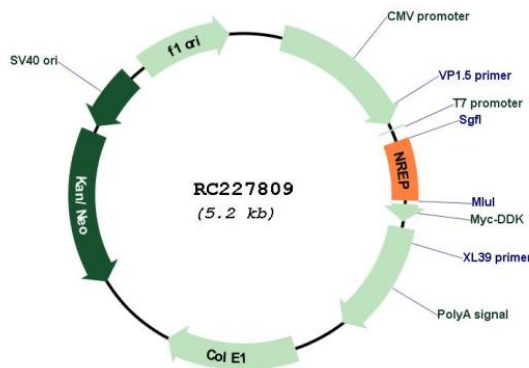


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**Cloning Scheme:**



**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](#)

<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_001142474.2</a></u>
<b>RefSeq ORF:</b>	309 bp
<b>Locus ID:</b>	9315
<b>Cytogenetics:</b>	5q22.1
<b>MW:</b>	11.8 kDa
<b>Gene Summary:</b>	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]