

Product datasheet for **RG227809**

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 Sequence: >RG227809 representing NM_001142474
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAAGGAGTTTGAATTATTCTGCTTTGAGCCGAAGAGAAGATGAAACACGAACCCAGAGGAGCAGGA
TGACAGACAGAGTCCCTTGTCCAAATGTTCCAGTTTATTACCCAGAACTCTTGTCTGGGTCA
AGAACCATTTCCAACAAGGACATGGAGGGAAGGCTTCTAAGGGAAGACTTCTGTCCAAAGGAAGTG
AACCGCAAGAAGACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAAGTCCGCTCC
CAAGAATCAGTTACCTCCACTTTTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG227809 representing NM_001142474
Red=Cloning site Green=Tags(s)
MKGVWNYSALSRREDETRTQRSRMTDRVPCSKCFQVYYPELFWVVSQEPFPNKDMEGRLPKGRLPVPKEV
NRKKNDETNAASLTPLGSSELSPRISYLHFF

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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: | <ol style="list-style-type: none">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] |