

## Product datasheet for **MR216098**

### **Nrep (NM\_001109989) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nrep (NM\_001109989) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Nrep  
**Synonyms:** AI325076; D0H4S114; Harp; P311; PTZ17; SEZ17  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR216098 representing NM\_001109989  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTTACTACCCAGAACTCTTGGTCTGGGTCAGCCAAGAACCCTTGCATACAAGGAAATGGAGGGAG  
GTCTTATTAAGGGAAGACTTCCCGTGCCTAAGGAAGTGAACCGAAAGAAGATGGAGGAGACTGGCGCTGC  
CTCGTGACTCCGCCAGGCAGCCGTAATTCACCTCTCCAGCTACCAGTTACCTCCACCCCTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9050\\_g09.zip](https://cdn.origene.com/chromatograms/mm9050_g09.zip)

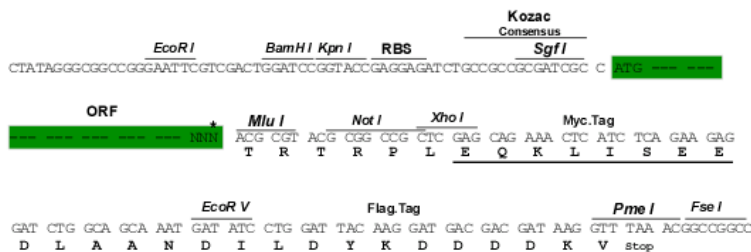
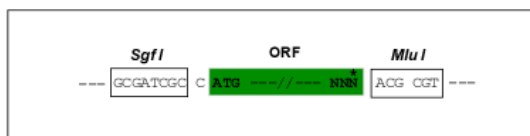
**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

- ACCN:** NM\_001109989
- ORF Size:** 204 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.

**RefSeq:** [NM\\_001109989.2](#), [NP\\_001103459.1](#)

**RefSeq Size:** 2108 bp

**RefSeq ORF:** 207 bp

**Locus ID:** 27528

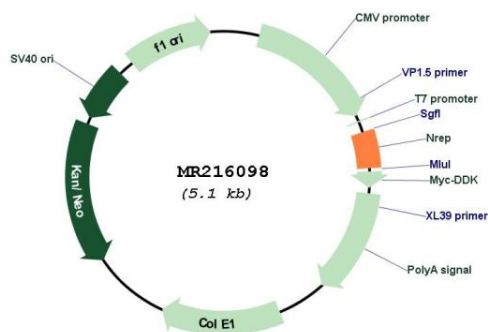
**UniProt ID:** [Q07475](#)

**Cytogenetics:** 18 B1

**MW:** 8.1 kDa

**Gene Summary:** May have roles in cellular differentiation. Ectopic expression induces differentiation of fibroblast into myofibroblast and myofibroblast ameboid migration. Increases retinoic-acid regulation of lipid-droplet biogenesis. May also have neural functions. Promotes axonal regeneration and augments motility of gliomas. Down-regulates the expression of TGFB1 and TGFB2 but not of TGFB3. May play a role in the regulation of alveolar generation. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR216098