

## Product datasheet for **RG233235**

### Prion protein PrP (PRNP) (NM\_001271561) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Prion protein PrP (PRNP) (NM\_001271561) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Prion protein PrP  
**Synonyms:** AltPrP; ASCR; CD230; CJD; GSS; KURU; p27-30; PRIP; PrP; PrP27-30; PrP33-35C; PrPc  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233235 representing NM\_001271561  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAACACTGGGGCAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGC  
 GGTGGTGGCTGGGGCAGCCTCATGGTGGTGGCTGGGGCAGCCTCATGGTGGTGGCTGGGGCAGCCCC  
 ATGGTGGTGGCTGGGGACAGCCTCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGGAA  
 CAAGCCGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG233235 representing NM\_001271561  
 Red=Cloning site Green=Tags(s)  
 MEHWGQIPGAGQPWRQPLPTSGRWLGAASWWLGAASWWLGAAPWWLGTASWWLGSRRWHPQSVE  
 QAE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



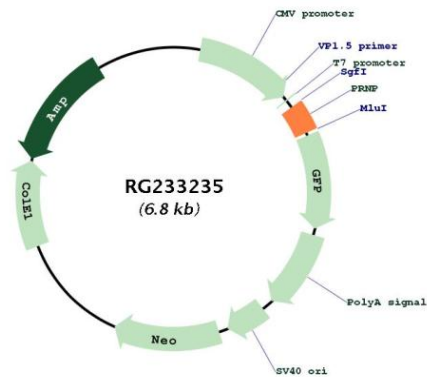
[View online »](#)

**Cloning Scheme:**


|                   |  |
|-------------------|--|
| RefSeq ORF:       | 222 bp   |
| Locus ID:         | 5621   |
| UniProt ID:       | <a href="#">P04156</a>   |
| Cytogenetics:     | 20p13  |
| Protein Families: | ES Cell Differentiation/IPS, Stem cell - Pluripotency, Transmembrane |
| Protein Pathways: | Prion diseases   |
| Gene Summary:     |  |

The protein encoded by this gene is a membrane glycosylphosphatidylinositol-anchored glycoprotein that tends to aggregate into rod-like structures. The encoded protein contains a highly unstable region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximately 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been associated with Creutzfeldt-Jakob disease, fatal familial insomnia, Gerstmann-Straussler disease, Huntington disease-like 1, and kuru. An overlapping open reading frame has been found for this gene that encodes a smaller, structurally unrelated protein, AltPrp. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

### Product images:



Circular map for RG233235