

Product datasheet for **RG216132**

Prion protein PrP (PRNP) (NM_183079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prion protein PrP (PRNP) (NM_183079) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRNP
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:	>RG216132 representing NM_183079 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACCTTGGCTGCTGGATGCTGGTTCTCTTTGTGGCCACATGGAGTGACCTGGGCCTCTGCAAGA
AGCGCCCGAAGCCTGGAGGATGGAACACTGGGGGCAGCCGATACCCGGGGCAGGGCAGCCCTGGAGGCAA
CCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCTCATGGT
GGTGGCTGGGGGCAGCCCATGGTGGTGGCTGGGGACAGCCTCATGGTGGTGGCTGGGGTCAAGGAGGTG
GCACCCACAGTCAGTGAACAAGCCGAGTAAGCCAAAAACCAACATGAAGCACATGGCTGGTGGCTGCAGC
AGCTGGGGCAGTGGTGGGGGCCCTTGGCGCTACATGCTGGGAAGTGCCATGAGCAGGCCCATCATACAT
TTCGGCAGTGACTATGAGGACCGTTACTATCGTGAAAACATGCACCGTTACCCCAACCAAGTGTACTACA
GGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGCACGACTGCGTCAATATCACAATCAAGCAGCA
CACGGTACCACAACCACCAAGGGGGAGAATTCCACCGAGACCGACGTTAAGATGATGGAGCGCGTGGTT
GAGCAGATGTGTATACCCAGTACGAGAGGGAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCC
TCTTCTCTCCACCTGTATCCTCTGATCTCTTCTCATCTTCTGATAGTGGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216132 representing NM_183079
Red=Cloning site Green=Tags(s)

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQSPGGNRYPPQGGGGWGQPHGGGWGQPHG
 GGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAAGAVVGGLLGGYMLGSAMSRPIIH
 FGSDYEDRYRENHRYPNQVYYRPMDEYSNQNFVHDCVNITIKQHTVTTTTKGENFTEIDVKMMERVV
 EQMCITQYERESQAYYQRGSSMVLFSPPVILLISFLIFLIVG

TRTRPLE - GFP Tag - V

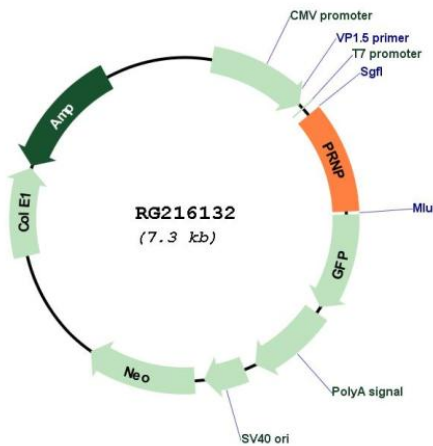
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_183079

ORF Size: 759 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:	<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:	NM_183079.4
RefSeq Size:	2479 bp
RefSeq ORF:	762 bp
Locus ID:	5621
UniProt ID:	P04156
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]