

Product datasheet for SC110984

Prion protein PrP (PRNP) (NM_000311) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prion protein PrP (PRNP) (NM_000311) Human Untagged Clone
Tag:	Tag Free
Symbol:	Prion protein PrP
Synonyms:	AltPrP; ASCR; CD230; CJD; GSS; KURU; p27-30; PRIP; PrP; PrP27-30; PrP33-35C; PrPc
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC110984 sequence for NM_000311 edited (data generated by NextGen Sequencing)

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ATGGCGAACCTTGGCTGCTGGATGCTGGTTCTCTTTGTGGCCACATGGAGTGACCTGGGC
CTCTGCAAGAAGCGCCCGAAGCCTGGAGGATGGAACACTGGGGGCAGCCGATACCCGGGG
CAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCAGCCT
CATGGTGGTGGCTGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCATGGTGGTGGC
TGGGGACAGCCTCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGAAC
AAGCCGAGTAAGCAAAAACCAACATGAAGCACATGGCTGGTGCAGCAGCTGGGGCA
GTGGTGGGGGCCTTGGCGGCTACATGCTGGGAAGTGCCATGAGCAGGCCATCATACT
TTCGGCAGTGACTATGAGGACCGTTACTATCGTAAAACATGCACCGTTACCCCAACCA
GTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTGTGCAGGACTGCGTC
AATATACAATCAAGCAGCACACGGTCACCACAACCACCAAGGGGGAGAACTTCACCGAG
ACCGACGTTAAGATGATGGAGCGCGTGGTTGAGCAGATGTGTATACCCAGTACGAGAGG
GAATCTCAGGCCTATTACCAGAGAGGATCGAGCATGGTCTCTTCTCCTCTCCACCTGTG
ATCCTCTGATCTCTTCTCATCTTCTGATAGTGGGATGA

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Clone variation with respect to NM_000311.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000311 unedited</p> <pre>TTTGTATACGACTCACTATAGGGCGGCCGGAATCGGCACGAGGCGACCGAGAGCAGTCA TTATGGCGAACCTTGGCTGCTGGATGCTGGTTCTTTTGTGGCCACATGGAGTGACCTGG GCCTCTGCAAGAAGCGCCCGAAGCCTGGAGGATGGAACACTGGGGGCAGCCGATACCCGG GGCAGGGCAGCCCTGGAGGCAACCGCTACCCACCTCAGGGCGGTGGTGGCTGGGGGCAGC CTCATGGTGGTGGCTGGGGGCAGCCTCATGGTGGTGGCTGGGGGCAGCCCATGGTGGTGG GCTGGGGACAGCCTCATGGTGGTGGCTGGGGTCAAGGAGGTGGCACCCACAGTCAGTGGGA ACAAGCCGAGTAAGCCTAAACCAACATGAAGCACATGGCTGGTGGCTGCAGCAGCTGGGG CAGTGGTGGGGGCCCTTGGCGGCTACATGCTGGGAAGTGCCATGAGCAGGCCCATCATAAC ATTTCCGCGAGTACTATGAGGACCGTTACTATCGTGAAAACATGCACCGTTACCCCAACC AAGTGTACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGCAGACTGCG TCAATATCACAATCAAGCAGCACACGGTCACCACAACCACCAAGGGGGAGAACTTCACCG AGACCGACGTTAAGATGATGGAGCGGTGGTTGAGCANATGTGTATACCCAGTACGAGA GGGAATCTCAGGCCTATTACCAGAGGAGATCGAGCATGGTCTCTCTCCTCCACCTG GATCCTNCTGATCTCTTCTCATCTTCTGATAGGGGGATGAGGAANGGTCTTNNCTGT TTNCACCATCTTNTAAATCTTNTTCAGCTTGAGGGAGGCGGNATCCACCTGCACCCCTT TANGGGNGGGA</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000311 unedited</p> <pre>NGGCTTCACTCTGAACCCGCGCCGCATNCTAAGATCGAGTTTTTTTTTTTTTTTTTTGG TGCTCATCTTCGCTCGTTAATTTTCAGTCAGATATTAACATTTACAATTTTTTATATA ACAAAACAAGAATGCAAAGTTACAAATATAGAAAATATAAAGTACATGCATATTTCAA AGACCTGTTAATGGTGTCCACTTTGGATTCTTACATGAAACGATTCAGTGCACATTGTAA GCCTAAGGACCACGAAAAGGGTTCCACATATTAAGTATTCAGTACCTTACAAAAGTT AATGCATTAGACACTTCAGATGTTAACTGCTCTAAACAAAACCTAAAGTCTGTCCTATG CAATATATATTTATATACATATATATTTTACATAGAATACTCACAAGTGCAAGCCAA TAATAACATTGCAGAAAAGTAATACATATCTGCTAGGTGACAATATCAAACAATTCAGGG AATAATTTTACTTTAATTAACATTAACAGAATTTCTTTTCCACTTCAAATCAATCATAT TTCTGTCTCCTCAACCTAAGATATTTTTAGATTGTCTCCCTATTCTTTGATTCAAAG CCAATTACAGAACTATGAACCTTGACCTAATCTGGTTTTTGACAATTATGAGACAGAAA TAAAGAAATGCAAGCAGTCTTTTTCTTTGCACACTGACCATTTTTTAATTACATCATCCT CTATGATGATGGTGCTTTCACAACCTGCAGCTCTCCTGTATGTCAAATCATTCTGGTTTC CAGGTAATGGACAAAGGAGATTTGCCCTTCAGTGTCTAGAAAGCAATTACTTTTCAGCTG CCTTAATTACTATAGTTAAAGAAAGGATGCCCATATAGGGCCTTTAAACANTAA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000311
Insert Size:	1400 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_000311.2](#), [NP_000302.1](#)

RefSeq Size: 2483 bp

RefSeq ORF: 762 bp

Locus ID: 5621

UniProt ID: [P04156](#)

Cytogenetics: 20p13

Domains: prion

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]
Transcript Variant: This variant (1) represents the longest transcript. Variants 1-5 can all encode the same isoform (Prp).