

Product datasheet for SC315707

Prion protein PrP (PRNP) (NM_001080123) Human Untagged Clone

Product data:

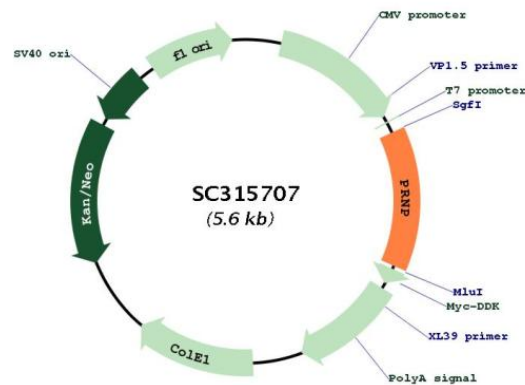
Product Type:	Expression Plasmids
Product Name:	Prion protein PrP (PRNP) (NM_001080123) Human Untagged Clone
Tag:	Tag Free
Symbol:	PRNP
Synonyms:	AltPrP; ASCR; CD230; CJD; GSS; KURU; p27-30; PRIP; PrP; PrP27-30; PrP33-35C; PrPc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315707 representing NM_001080123. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGAACCTTGGCTGCTGGATGCTGGTCTCTTTGTGGCCACATGGAGTGACCTGGGCCCTCTGCAAG
AAGCGCCCGAAGCCTGGAGGATGGAACACTGGGGCAGCCGATACCCGGGCAGGCAGCCCTGGAGGC
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GGTGGCACCCACAGTCAGTGAACAAGCCGAGTAAGCCAAAAACCAACATGAAGCACATGGCTGGTGGT
GCAGCAGCTGGGGCAGTGGTGGGGGCCCTTGGCGGCTACATGCTGGGAAGTGCCATGAGCAGGCCATC
ATACATTCGGCAGTGACTATGAGGACCGTTACTATCGTGAACATGCACCGTTACCCCAACCAAGTG
TACTACAGGCCCATGGATGAGTACAGCAACCAGAACAACCTTTGTGACGACTGCGTCAATATCACAATC
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CGCGTGGTTGAGCAGATGTGTATCACCCAGTACGAGAGGGAATCTCAGGCCTATTACCAGAGAGGATCG
AGCATGGTCTCTTCTCCTCCTCCACCTGTGATCCTCCTGATCTCTTTCTCATCTTCTGATAGTGGGA
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001080123

Insert Size: 762 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001080123.1](#)

RefSeq Size: 2619 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
MW:	27.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. Variants 1-5 can all encode the same protein (Prp).</p>