

Product datasheet for **RC200810**

PRP19 (PRPF19) (NM_014502) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	PRP19
Synonyms:	hPSO4; NMP200; PRP19; PSO4; SNEV; UBOX4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC200810 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCTTAATCTGCTCCATCTCTAACGAAGTGCCGGAGCACCCATGTGTATCCCCTGTCTCTAATCATG
 TTTATGAGCGGGCGCTCATCGAGAAGTACATTGCGGAGAATGGTACCGACCCCATCAACAACCAGCCTCT
 CTCCGAGGAGCAGCTCATCGACATCAAAGTTGCTCACCAATCCGGCCCAAGCCTCCCTCAGCCACCAGC
 ATCCCGGCCATTCTGAAAGCTTTGCAGGATGAGTGGGATGCAGTCATGCTGCACAGCTTCACTCTGCGCC
 AGCAGCTGCAGACAACCCGCCAAGAGCTGTACACGCTCTGTACCAGCAGATGCCGCTGCCGTGTCAT
 TGCCCGTCTCACCAAGGAAGTCACTGCTGCCGAGAAGCTCTGGTACCCTGAAACCACAGGCTGGCCTC
 ATTGTGCCCCAGGCTGTGCCAAGTTCCCAACCAAGTGTGTGGGTGCGGGTGAGCCAATGGATTTGGGTG
 AGCTGGTGGGAATGACCCAGAGATTATCAGAAGCTTCAAGACAAAGCCACTGTGCTAACCACGGAGCG
 CAAGAAGAGAGGAAGACTGTGCTGAGGAGCTGGTGAAGCCAGAAGAGCTCAGCAAATACCGGCAGGTG
 GCATCCACGTTGGGTTGCACAGTGCCAGCATTCTGGGATCCTGGCCCTGGACCTCTGCCCGTCCGACA
 CCAACAAGATCCTCACTGGTGGGCGGATAAAAAATGTCGTTGTGTTTGACAAAAGTTCTGAACAAATCCT
 GGCTACCTCAAAGGCCATACCAAGAAGGTACCAAGCGTGGTGTTCACCTTCCAGGACCTGGTGTTC
 TCTGCTTCCCCGATGCCACTATCAGGATTTGGTGGTCCCCAATGCCTCTTGTGTACAGGTGGTTCGGG
 CCCATGAGAGTGCTGTGACAGGCCTCAGCCTTCATGCCACTGGCGACTATCTCCTGAGCTCCTCCGATGA
 TCAGTACTGGGCTTTCTCTGACATCCAGACAGGGCGTGTGCTACCAAGGTGACAGATGAGACCTCCGGC
 TGCTCTCTCACCTGTGCACAGTTCCACCCTGACGGAATCATCTTTGGAACAGGAACCATGGACTCTCAGA
 TCAAGACTCTGGGACTTGAAGGAACGTAATAATGTGGCCAACTTCCCTGGCACTCGGGCCCCATCACTAG
 CATCGCCTTCTCTGAGAATGGTTACTACCTGGCTACAGCGGCTGATGACTCCTCTGTCAAGCTCTGGGAT
 CTGCGCAAGCTTAAGAACTTTAAGACTTTGCAGCTGGATAAACAATTTGAGGTAAAGTCACTGATCTTTG
 ACCAGAGTGGTACCTACCTGGCTCTTGGGGGCACGGATGTCCAGATCTACATCTGCAACAATGGACGGA
 GATTCTTCACTTTACAGAGCATAGCGGCCTGACCACAGGGGTGGCCTTCGGGCATCACGCCAAGTTCATC
 GCTTCAACAGGCATGGACAGAAGCCTCAAGTTCTACAGCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200810 protein sequence
 Red=Cloning site Green=Tags(s)

MSLICISNEVPEHPCVSPVSNHVVYERRLIEKYIAENGTDPIINNQPLSEEQLIDIKVAHPIRPKPPSATS
 IPAILKALQDEWDAVMLHSFTLRQQLQTRQELSHALYQHDAACRVIA RLTKEVTAAREALATLKPQAGL
 IVPQAVPSSQPSVVGAGEPMDLGELVGMTPEIIQKLQDKATVLTTERKKRGKTVPEELVKPEELSKYRQV
 ASHVGLHSASIPGILALDLCPSDTNKILTGGADKNVVVFDKSSEQILATLKGHTKKVTSVVFHPSQDLVF
 SASPDATIRIWSVPNASCVQVVRAHESAVTGLSLHATGDYLLSSDDQYWAFSDIQTGRVLTKVTDETSG
 CSLTCAQFHPDGLIFGTGMTDSQIKIWDLKERTNVANFPGHSGPITSIAFSENGYYLATAADDSSVKLWD
 LRKLKNFKTLQLDNNFEVKSIFDQSGTYLALGGTDVQIYICKQWTEILHFTTEHSLTTGVAFGHAKFI
 ASTGMDRSLKFYSL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6150_f07.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_014502

ORF Size: 1512 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_014502.5](#)

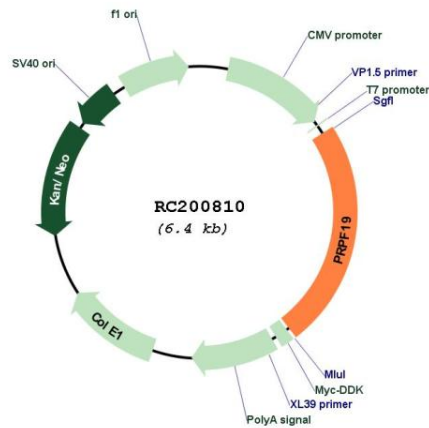
RefSeq Size: 2342 bp

RefSeq ORF: 1515 bp

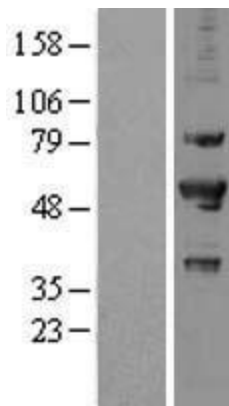
Locus ID: 27339

UniProt ID:	<u>Q9UMS4</u>
Cytogenetics:	11q12.2
Domains:	WD40, U-box
Protein Families:	Druggable Genome
Protein Pathways:	Spliceosome, Ubiquitin mediated proteolysis
MW:	55.2 kDa
Gene Summary:	PSO4 is the human homolog of yeast Pso4, a gene essential for cell survival and DNA repair (Beck et al., 2008 [PubMed 18263876]).[supplied by OMIM, Sep 2008]

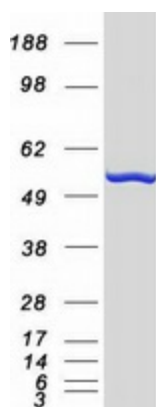
Product images:



Circular map for RC200810



Western blot validation of overexpression lysate (Cat# [LY402343]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200810 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PRPF19 protein (Cat# [TP300810]). The protein was produced from HEK293T cells transfected with PRPF19 cDNA clone (Cat# RC200810) using MegaTran 2.0 (Cat# [TT210002]).