

## Recombinant Human PRPF19, GST-tagged

**Cat. No.** PRPF19-152H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant human PRPF19 (2-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 2-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | PRPF19 or pre-mRNA-processing factor 19 is the human homolog of yeast Pso4. PRPF19 is a gene essential for cell survival, DNA repair and association with terminal deoxynucleotidyl transferase. PRPF19 forms a stable complex with SETMAR (Metnase) which is a SET and transposase fusion protein in humans and plays a positive role in double-strand break (DSB) repair. PRPF19 mediates association of SETMAR with sites of DNA damage. SNEV is an orthologue of PRPF19 and is an evolutionarily conserved splicing factor whose oligomerization is necessary for spliceosome assembly. |
| <b>Form</b>             | Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 50mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | ~74 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | >90% by densitometry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>Applications</b>     | Western Blot                                                                                                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.                                                                                        |
| <b>Concentration</b>    | 0.1 µg/µl                                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Name</b>        | PRPF19 PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae) [ Homo sapiens ]                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>  | PRPF19                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>         | PRPF19; PRP19/PSO4 pre-mRNA processing factor 19 homolog (S. cerevisiae); PRP19, PRP19/PSO4 homolog (S. cerevisiae); pre-mRNA-processing factor 19; hPSO4; NMP200; nuclear matrix protein NMP200 related to splicing factor PRP19; PSO4; UBOX4; PRP19/PSO4 homolog; senescence evasion factor; nuclear matrix protein 200; SNEV; PRP19; |
| <b>Gene ID</b>          | 27339                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>      | NM_014502                                                                                                                                                                                                                                                                                                                               |
| <b>Protein Refseq</b>   | NP_055317                                                                                                                                                                                                                                                                                                                               |
| <b>MIM</b>              | 608330                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID</b>       | Q9UMS4                                                                                                                                                                                                                                                                                                                                  |

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| <b>Chromosome Location</b> | 11q12.2                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Spliceosome, organism-specific biosystem; Spliceosome, conserved biosystem; Spliceosome, 35S U5-snRNP, organism-specific biosystem; Spliceosome, Prp19/CDC5L complex, organism-specific biosystem; Ubiquitin mediated proteolysis, organism-specific biosystem; Ubiquitin mediated proteolysis, conserved biosystem; |
| <b>Function</b>            | DNA binding; identical protein binding; protein binding; ubiquitin-protein ligase activity; ubiquitin-ubiquitin ligase activity;                                                                                                                                                                                     |

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