PRPF3 Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	PRPF3, Lysate
Full Product Name	Human PRPF3 Protein Lysate
Product Gene Name	PRPF3 lysate
Product Synonym Names	PRPF3; HPRP3; HPRP3P; PRP3; Prp3p; RP18; SNRNP90
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	75kDa
OMIM	601414
3D Structure	ModBase 3D Structure for O43395
Related Product Information for PRPF3 lysate	Human PRPF3 Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of PRPF3 lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PRPF3 purchase	MBS8417847 is a lysate targeting PRPF3. Also known as Human PRPF3 Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PRPF3. It may not necessarily be applicable to this product.

NCBI GI #	4758556
NCBI GeneID	9129
NCBI Accession #	NP_004689
UniProt Primary Accession #	O43395
UniProt Related Accession #	O43395
GenBank Nucleotide #	NM_004698
NCBI Official Full Name	U4/U6 small nuclear ribonucleoprotein Prp3 isoform 1
NCBI Official Synonym Full Names	pre-mRNA processing factor 3
NCBI Official Symbol	PRPF3
NCBI Official Synonym Symbols	PRP3; RP18; HPRP3; Prp3p; HPRP3P; SNRNP90
UniProt Protein Name	U4/U6 small nuclear ribonucleoprotein Prp3
UniProt Synonym Protein Names	Pre-mRNA-splicing factor 3; hPrp3; U4/U6 snRNP 90 kDa protein
Protein Family	U4/U6 small nuclear ribonucleoprotein

UniProt Gene Name	PRPF3
UniProt Synonym Gene Names	HPRP3; PRP3; hPrp3
UniProt Entry Name	PRPF3_HUMAN
NCBI Protein Information	U4/U6 small nuclear ribonucleoprotein Prp3
NCBI Summary for PRPF3	The removal of introns from nuclear pre-mRNAs occurs on complexes called spliceosomes, which are made up of 4 small nuclear ribonucleoprotein (snRNP) particles and an undefined number of transiently associated splicing factors. This gene product is one of several proteins that associate with U4 and U6 snRNPs. Mutations in this gene are associated with retinitis pigmentosa-18. [provided by RefSeq, Jul 2008]
UniProt Comments for PRPF3	PRPF3: Participates in pre-mRNA splicing. May play a role in the assembly of the U4/U5/U6 tri-snRNP complex. Defects in PRPF3 are the cause of retinitis pigmentosa type 18 (RP18). RP leads to degeneration of retinal photoreceptor cells. Patients typically have night vision blindness and loss of midperipheral visual field. As their condition progresses, they lose their far peripheral visual field and eventually central vision as well. RP18 inheritance is autosomal dominant. Protein type: RNA splicing; Spliceosome; RNA processing Chromosomal Location of Human Ortholog: 1q21.1 Cellular Component: nucleoplasm; Cajal body; spliceosome; U4/U6 x U5 tri-snRNP complex; cytoplasm; nuclear speck; nucleus Molecular Function: identical protein binding; protein binding Biological Process: assembly of spliceosomal tri-snRNP; nuclear mRNA splicing, via spliceosome; RNA splicing, via transesterification reactions; RNA splicing; mRNA processing Disease: Retinitis Pigmentosa 18
Research Articles on PRPF3	**1.** Results from whole-exome sequencing identified 2 variants c.1345C > G (p.R449G) and c.1532A > C (p.H511P) in PRPF3 which co-segregate with retinitis pigmentosa in two families respectively.
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