

## Names for KANNO (ISBT 037) Blood Group Alleles

### Intro

General description: The KANNO blood group system consists of one antigen, KANNO1, carried on a GPI-linked glycoprotein (PrP, CD230) that consists of 253 amino acids. It has a leader sequence of 22 amino acids and a GPI motif of 23 amino acids, both of which are cleaved from the membrane bound protein.

Gene name: *PRNP*  
Number of exons: 2  
Initiation codon: Within exon 2  
Stop codon: Within exon 2  
Entrez Gene ID: 5621  
LRG: pending  
Reference sequence: NG\_009087.1 (genomic)  
NM\_000311.5 (transcript)  
Reference allele: *KANNO\*01* (shaded)  
Reference allele *KANNO1*  
Antithetical antigens: n.a.

Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change	(Reference No.) PMID	Accession number	rs number
KANNO:1 or KANNO1+	<i>KANNO*01</i>				(1), PMID: 31020675		
KANNO:-1 or KANNO1-	<i>KANNO*01.-01</i>	c.655G>A	2	p.Glu219Lys	(1), PMID: 31020675	LC550028.1	rs1800014

## References

1. PMID: 31020675 Omae Y, Ito S, Takeuchi M, et al.: Integrative genome analysis identified the KANNO blood group antigen as the prion protein. *Transfusion* 2019; 59: 2429-2435

**Track of changes**

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Yoshihiko Tani, December 2019

reviewed:

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Christoph Gassner, January 2020

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Catherine Hyland, January 2020

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Yoshihiko Tani, October 2020

**End of changes**

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