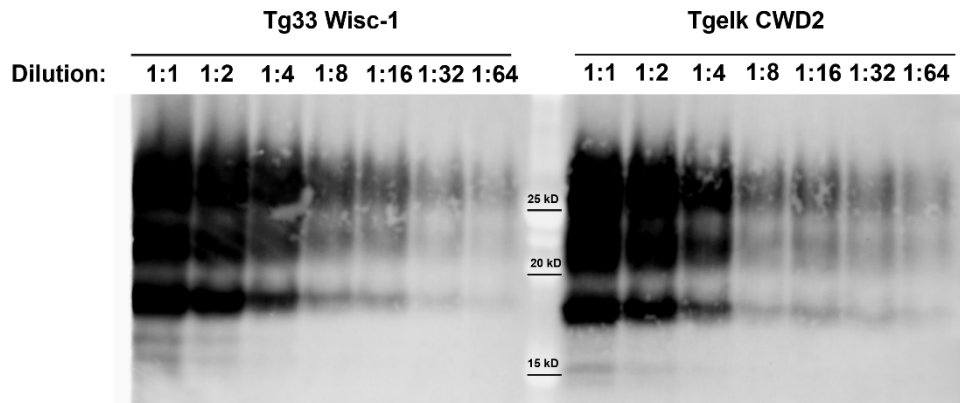


Supplementary material

10	20	30	40	50	
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
MVKSHI	GSWI	LVL	FVAMWSDVGL	CKKRPKP	GGGWNTGGS RYP GQGS PGGNRY
					Odocoileus virginianus wt
					Odocoileus virginianus S96
					Odocoileus virginianus H95
					Odocoileus hemionus F225
					Odocoileus hemionus wt
					Cervus canadensis L132
					Cervus canadensis M132
60	70	80	90	100	
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
PPQGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQP	HGGGGWGQGGT	HS QWNK
					Odocoileus virginianus wt
					Odocoileus virginianus S96
					Odocoileus virginianus H95
					Odocoileus hemionus F225
					Odocoileus hemionus wt
					Cervus canadensis L132
					Cervus canadensis M132
110	120	130	140	150	
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
PSKP	KT	NMKHV	AGAAAAGAVV	GGLGGYML	GS AMS RPLI HF GNDYEDRYREN
					Odocoileus virginianus wt
					Odocoileus virginianus S96
					Odocoileus virginianus H95
					Odocoileus hemionus F225
					Odocoileus hemionus wt
					Cervus canadensis L132
					Cervus canadensis M132
160	170	180	190	200	
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
MYRYP	NQVYYR	PVDQYNNQNT	FVHDCVNI	TVKQHTVTTTT	KGENFTETDI KM
					Odocoileus virginianus wt
					Odocoileus virginianus S96
					Odocoileus virginianus H95
					Odocoileus hemionus F225
					Odocoileus hemionus wt
					Cervus canadensis L132
					Cervus canadensis M132
210	220	230	240	250	
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
MER	VVEQ	MCITQY	QRESQ	AYYQ	RQASVILFSSPPVILLISFLIFLIVG
					Odocoileus virginianus wt
					Odocoileus virginianus S96
					Odocoileus virginianus H95
					Odocoileus hemionus F225
					Odocoileus hemionus wt
					Cervus canadensis L132
					Cervus canadensis M132

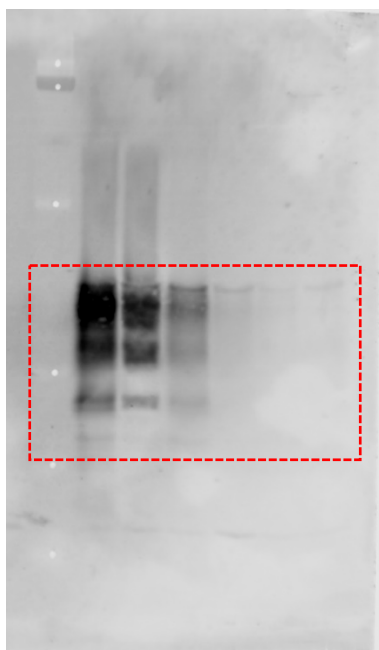
Supplementary figure 1: Sequence alignment of PrP^C primary structure and occurring polymorphisms within and between commonly affected cervid species. Boxes delimit species-specific amino acid polymorphisms.



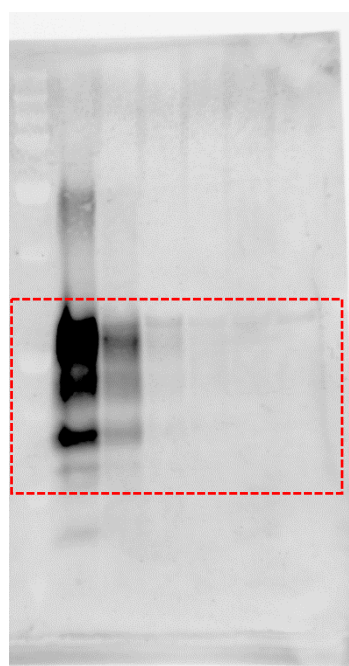
Supplementary figure 2: Detection of PrP^{CWD} in brain samples from a tg33 mouse challenged with Wisc-1 CWD and a tgElk mouse challenged with CWD2 strain. 10% brain homogenates from these mice were serially diluted and then digested with 50 µg/ml of Proteinase-K (PK). Digested samples were analyzed by western blot using the Sha31 monoclonal antibody (1:10000). Both animals accumulated similar amounts of PrP^{CWD} in their brains.

Full-length western blots corresponding to the main figures in the text are provided on the following pages.

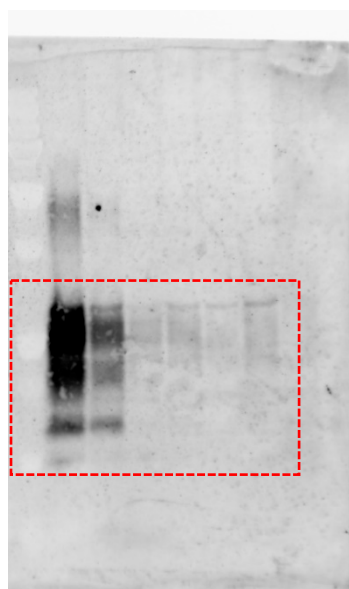
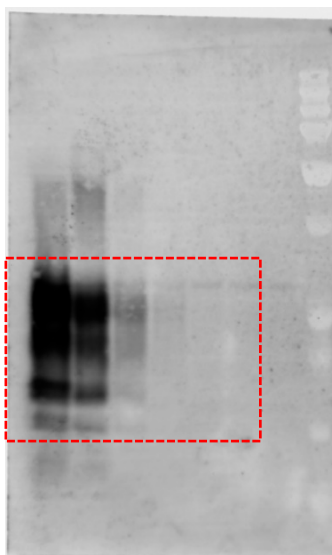
Main figure 1 Wisc-1 (left):



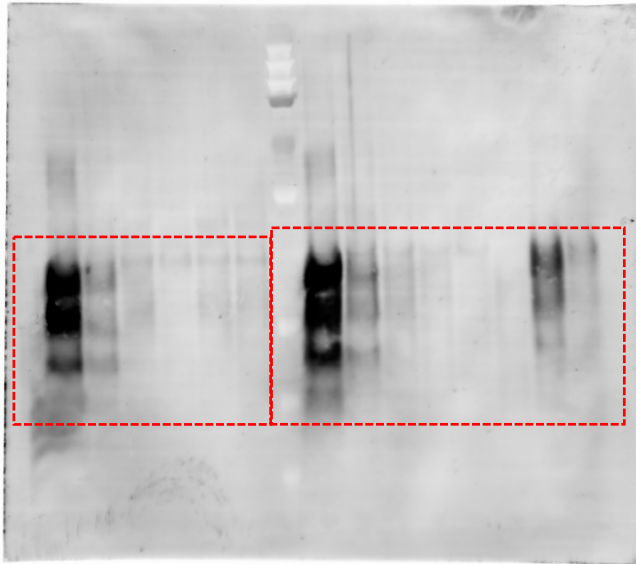
**Main Figure 1
Wisc-1 (right):**



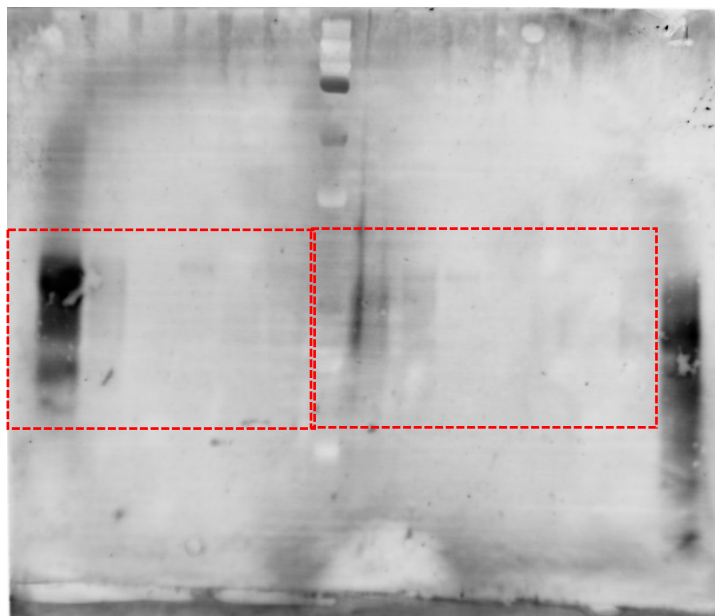
Main figure 1 H95+ (left and right):



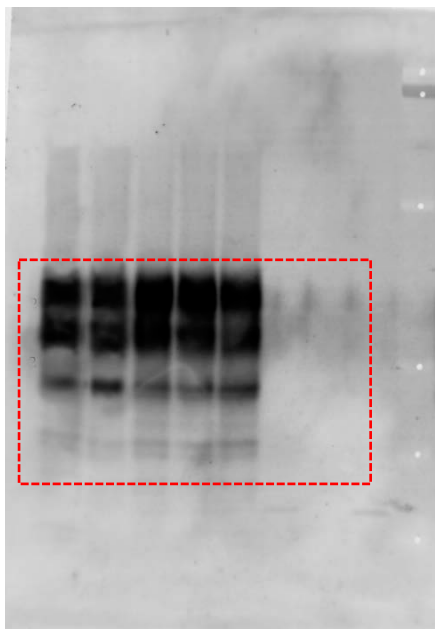
Main figure 1 CWD2 (left and right)



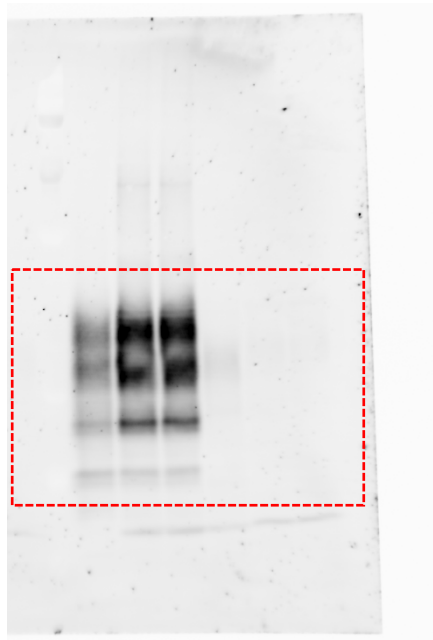
Main figure 1MD (left and right):



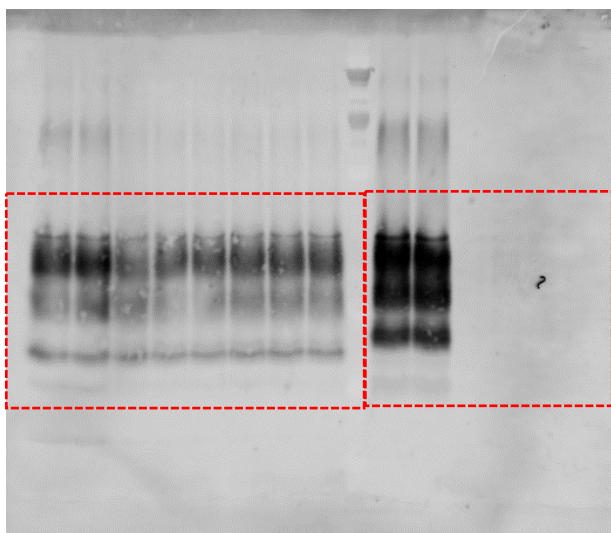
Main figure 2 Wisc-1:



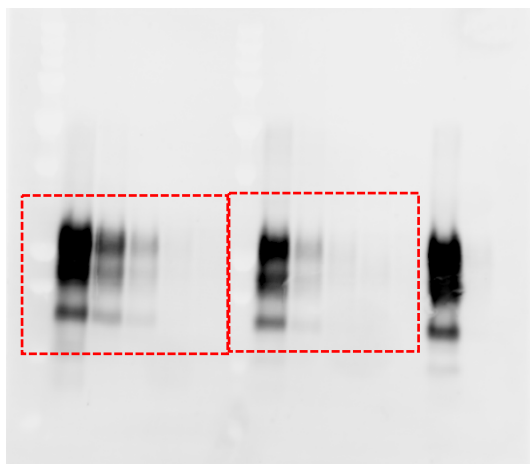
Main figure 2 CWD2:



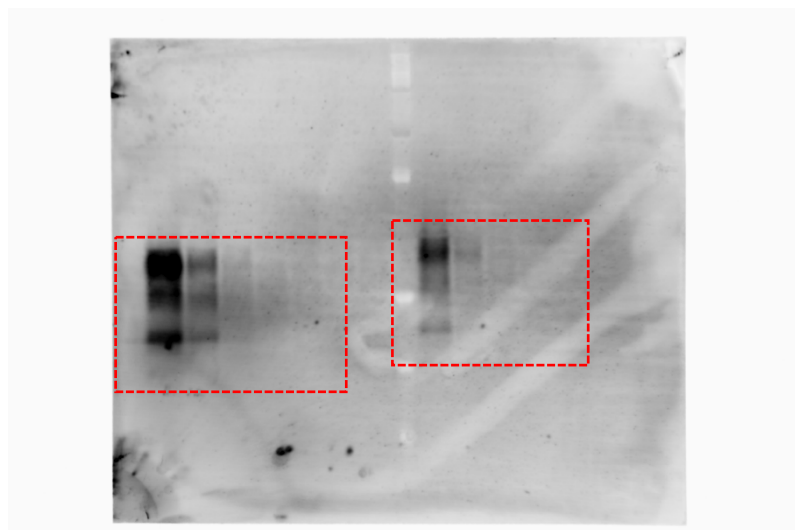
Main figure 2 H95+ and MD:



Main figure 3 top panels:



Main figure 3 mid panels:



Main figure 3 low panels:

