

	1	11	21	31	41	51	61	71	81	91	101	111
C57BL	MNFPRALAGF	SSWLFKPELA	EDSPDNDSPD	NDTVNFWREL	LQKINVADLP	DSSPSSGKEL	NDSVYHTFEH	FCKIRDYDAV	GELLALFLDK	VTKERDQFRD	EISQLRMHIN	DLKASKCVLG
AKR												
DBA												
129												
LG/J												
MOL												
BAC												
CAS1												
CAS2			L									
SPR1				S			D					
SPR2				S			D					
MAC1				S	N		D					
SPI1				S			G					
CAR1				EN		V	D					
CAR2			T	EN	R		V	D				
CER				ENP				D			L	
DUN			K	EN	L			D	QL	ASCFWH.WI.	*	
COO				EN			S	D				
FAM				EN				D				
MIN			S	EN	A	K		D	N			
PLA	L	D	G	EN	SA		K	D				V

	121	131	141	151	161	171	181	191	201	211	221	231
C57BL	ETLLSYRHRI	EVGEKQTEAL	IVRLADVQSQ	VMCQPARKVS	ADKVRALIGK	EWDPVTWDGD	VWEDIDSEGS	EEAELPTVLA	SPSLSEESGY	ALSKERTQQD	KADAPQIQSS	TSLVTSEPV
AKR												
DBA												
129												
LG/J												
MOL												
BAC												
CAS1										F		
CAS2	F			R								
SPR1		K		R				T		L		
SPR2		K						T		L		
MAC												
SPI												
CAR1								T				
CAR2			L					ALLPTVLA		A	N	
CER			L					I		A	N	
DUN			L					D			VS	N
COO			L	Q				D	T		I	*
FAM			L			D		D	T		S	K
MIN			L	T				D	T	K	DS	P
PLA			L	IT	F			D	T	K	AS	P

	241	251	261	271	281	291	301	311	321	331	341	351
C57BL	RPKSLSDLTS	QKHRHTNHEL	NSLAHNSRQK	AKEHARKWIL	RVWDNGGRLT	ILDQIEFLSL	GPLSLDSEFN	VIARTVEDNG	VKSLFDWLAE	AWVQRWPTTR	ELQSPDTLEW	YSIEDGIERL
AKR				Q								
DBA												
129												
LG/J				Q								
MOL												
BAC												
CAS1												
CAS2				Q								
SPR1		K	Q	C	Q					P	T	K
SPR2		K	Q	C	Q					P	T	K
MAC		K	Q	Y	Q		N				T	K
SPI		G	Q	Y	Q		N				T	K
CAR1	G	I	K	Q	Y	Q		T		A	T	A
CAR2			K	Q	H	Q		T		A	T	A
CER			Y	Q	Y	Q	E	T		A	T	A
DUN												
COO												
FAM		K	D	L	Q						T	K
MIN		C	D	Q	K	Q	C	N	G	R	G	
PLA		Q	Q	A	R	R	T					V

	361	371	381	391	401	411	421	431	441		
C57BL	RELGMIEWLC	VKATCPQWRG	PEDVPITRAM	RITFVRETRE	TWKSFVFSLL	CIKDITVGSV	AAQLHDLIEL	SLKPAAAGLT	SVGSVGVLSL	SPWKHQSNs*	
AKR											
DBA											
129											
LG/J											
MOL											
BAC											
CAS1											
CAS2		S							AGLASVGSVG	VLSLSPWKHQ	SNS*
SPR1	I							A			
SPR2	I							P	AGLASVGSVG	VLSLSPWKH*	
MAC			A	G		N			AGLASVGSVG	VLSLSPWKH*	
SPI			A						AGLASVGSVG	VLSLSPWKH*	
CAR1			A		Q		G		AGSAPVGSVA	PVGSVAVLSL	SPWKHQSNs*
CAR2			A			G			AGSAPVGSVA	VLSLSPWKHQ	SNS*
CER		S	A						AGLAPVGSVS	VLSLSPWKHQ	SNS*
DUN											
COO											
FAM					V			A	RG	GARF*	
MIN		P	R	D	A	V	E	S	IM	RK	KP
PLA					A	I	D			KEASTREED	F*

Figure S1

Comparison of the Fv1 sequence from different mice. Predicted amino acid sequence encoded by the *Fv1* gene from 20 different sources, compared to the *Fv1^b* allele found in C57BL mice. Source designations are as given in Table 1A. Single letter amino acid code; . = identical to Fv1b; - = deletion; * = stop.