

		1		50																																															
Consensus H3	(1)	MKTTI	ALS	YII	CLVFAQK	LP	XGND	NSTAT	L	CLGHHAV	P	NGT	L	V	K	T	I	T	I	N	D	Q																													
Consensus H7	(1)	----	MNT	Q	II	V	FALCAI	IP	----	TNADK	I	CLGHHAV	S	NGT	K	V	N	T	L	T	E	R	G																												
		51		100																																															
Consensus H3	(51)	I	E	V	T	N	A	T	E	L	V	Q	S	S	T	G	R	I	C	D	S	P	H	Q	I	L	D	G	E	N	C	T	L	I	D	A	L	L	G	D	P	H	C	D	G	F	Q	N	K	E	
Consensus H7	(42)	V	E	V	N	A	T	E	T	V	E	R	T	N	I	P	R	I	C	S	K	G	K	R	T	V	D	L	G	Q	C	G	L	L	G	T	I	T	G	P	P	Q	C	D	Q	F	L	E	F	S	
		101		150																																															
Consensus H3	(101)	W	D	I	F	V	E	R	S	K	A	Y	S	N	C	Y	P	Y	D	V	P	D	Y	A	S	L	R	S	L	V	A	S	S	G	T	L	E	F	N	N	E	S	F	N	W	T	G	V	A	Q	N
Consensus H7	(92)	A	D	I	I	E	R	R	E	G	S	D	V	C	Y	P	G	K	F	V	N	E	E	A	L	R	Q	I	L	R	E	S	G	G	I	D	K	E	S	M	G	F	T	Y	S	G	I	R	T	N	
		151		200																																															
Consensus H3	(151)	G	T	S	S	A	C	K	R	R	S	V	K	S	F	F	S	R	N	W	L	H	X	--	L	K	Y	K	P	A	L	N	V	T	M	P	N	N	E	K	F	D	K	L	I	I	W	G			
Consensus H7	(142)	G	A	T	S	A	C	R	R	-	S	G	S	S	F	Y	A	E	M	K	W	L	S	N	T	D	N	A	A	F	P	Q	M	T	K	S	Y	K	N	T	R	K	K	P	A	L	I	I	W	G	
		201		250																																															
Consensus H3	(199)	V	H	H	P	S	I	D	S	Q	I	S	L	Y	A	Q	A	S	G	R	V	T	V	S	T	K	R	S	Q	Q	T	V	I	P	N	I	G	S	R	P	W	V	R	G	V	S	S	R	I	S	
Consensus H7	(191)	I	H	H	S	G	S	T	T	E	Q	T	K	L	Y	G	S	E	N	K	L	I	T	V	G	S	S	N	Y	Q	Q	S	F	V	P	S	P	G	A	R	P	Q	V	N	G	Q	S	G	R	I	D
		251		300																																															
Consensus H3	(249)	I	Y	W	T	I	V	K	F	G	D	I	L	I	N	S	T	G	N	L	I	A	P	R	G	Y	F	K	I	R	S	G	K	S	S	I	M	R	S	D	A	P	I	G	K	C	N	S	E	C	
Consensus H7	(241)	F	H	W	L	M	L	N	P	N	D	T	V	T	F	S	F	N	G	A	F	I	A	P	D	R	A	S	F	L	R	G	K	S	M	G	I	Q	S	G	V	Q	V	D	A	N	C	E	G	C	
		301		350																																															
Consensus H3	(299)	I	T	P	N	G	S	T	P	N	D	K	P	F	Q	N	V	N	R	I	T	Y	G	A	C	P	R	Y	V	K	Q	N	T	L	K	L	A	T	G	M	R	N	V	P	E	K	Q	----			
Consensus H7	(291)	Y	H	S	G	G	T	I	S	N	L	P	F	Q	N	I	N	S	R	A	V	G	K	C	P	R	Y	V	K	Q	E	S	L	L	L	A	T	G	M	K	N	V	P	E	I	P	K	G	S	R	
		351↓		400																																															
Consensus H3	(345)	-	T	R	G	I	F	G	A	I	A	G	F	I	E	N	G	W	E	G	M	V	D	G	W	Y	G	F	R	H	Q	N	S	E	G	T	Q	A	A	D	L	K	S	T	Q	A	A	I	X	Q	
Consensus H7	(341)	V	G	R	G	L	F	G	A	I	A	G	F	I	E	N	G	W	E	G	L	I	D	G	W	Y	G	F	R	H	Q	N	A	Q	G	E	T	A	A	D	Y	K	S	T	Q	S	A	I	D	Q	
		401		450																																															
Consensus H3	(394)	I	N	G	K	L	N	R	L	I	E	K	T	N	E	K	F	H	Q	I	E	K	E	F	S	E	V	E	G	R	I	Q	D	L	E	K	Y	V	E	D	T	K	I	D	L	W	S	Y	N	A	E
Consensus H7	(391)	I	T	G	K	L	N	R	L	I	E	K	T	N	Q	Q	F	E	L	I	D	N	E	F	N	E	V	E	K	Q	I	G	N	V	I	N	W	T	R	D	S	M	T	E	V	W	S	Y	N	A	E
		451		500																																															
Consensus H3	(444)	L	L	V	A	E	N	Q	H	T	I	D	I	T	D	S	E	M	N	K	L	F	E	R	T	R	K	Q	L	R	E	N	A	E	D	M	G	N	G	C	F	K	I	Y	H	K	C	D	N	A	
Consensus H7	(441)	L	L	V	A	E	N	Q	H	T	I	D	I	A	D	S	E	M	N	K	L	Y	E	R	V	K	R	Q	L	R	E	N	A	E	D	G	T	G	C	F	E	I	F	H	K	C	D	D			
		501		550																																															
Consensus H3	(494)	C	I	G	S	I	R	N	G	T	Y	D	H	D	V	Y	R	D	E	A	L	N	N	R	F	Q	I	K	G	V	E	L	K	S	G	Y	K	D	W	I	L	W	I	S	F	A	I	S	C	F	L
Consensus H7	(491)	C	M	A	S	I	R	N	N	T	Y	D	H	S	K	Y	R	E	E	A	M	Q	N	R	I	Q	I	D	P	V	K	L	S	G	Y	K	D	V	I	L	W	F	S	F	G	A	S	C	F	I	
		551		574																																															
Consensus H3	(544)	L	C	V	L	L	G	F	I	M	W	A	C	Q	K	G	N	I	R	C	N	I	C	I																											
Consensus H7	(541)	L	L	A	I	A	M	G	L	V	F	I	C	V	K	N	G	M	R	C	T	I	C	I																											

Figure A