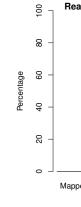
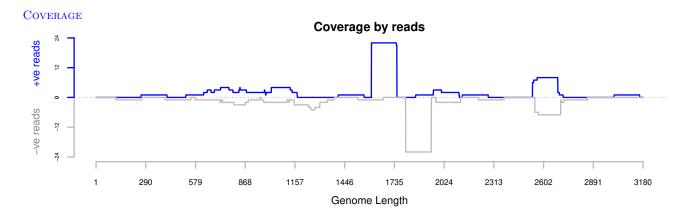
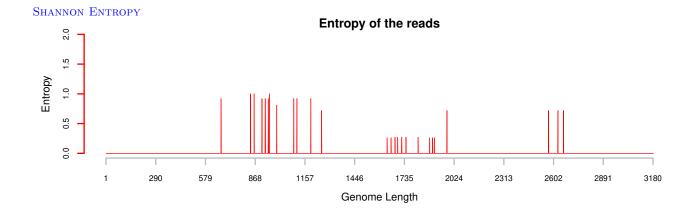
## HBV-RYD-23

File name Ref name Ref len Program used	HBV-RYD-23.sam KT963508.1 Hepatitis B virus strain HBV-8, complete genome 3182 Tanoti Assembler 1.0
Total reads Mapped reads Unmapped reads Mapped loan pairs Average read length	237152 95 (0.04%) 237057 0 146nt
Coverage Average depth Average insert length	2641nt (83.00%) 4 reads/site 0nt



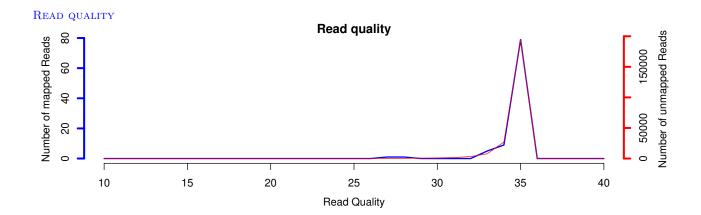




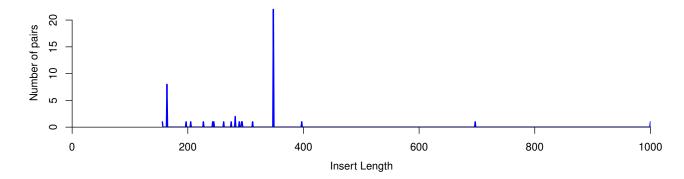
## Consensus sequence

1	NNNNNNNNN	NNNNNNNN	NNNNNNNNN	NNNNNNNN	NNNNNNNNN	NNNNNNNNN	NNNNNNNN
70			NNNNNNNN				
140			AACATCACAT				
210			TCACAATACC				
280	GGGGGAACTA	CCGTGTGTCT	TGGCCAAAGT	TCGCAGTCCC	CAACCTCCAA	TCACTCACCA	ACCTCCTGTC
350	CTCCAACTTG	TCCTGGTTAT	CGCTGGATGT	GTCTGCGGCG	TTTTATCATC	TTCCTCTTCA	TCCTGCTGCT
420	ATGCCTCATC	TTCTTGTTGG	TTCTTCTGGA	CTATCGAGGT	ATGTTGCCCG	TTTGTCCTCT	AATTCCAGGA
490	TCTTCAACAA	CCAGCACGGG	ACCATGCCGA	ACCTGCACGA	CTCCTGCTCA	AGGAACCTCT	ATGTATCCCT
560	CCTGTTGCTG	TACCAAACCT	TCGGACGGAA	ATTGCACCTG	TATTCCCATC	CCATCATCAT	GGGCTTTCGG
630			CCTCAGCCCG				
700	TTCGTAGGGC	TTTCCCCCAC	TGTTTGGCTT	TCAGTTATAT	GGATGATGTG	GTATTGGGGG	CCAAGTCTGT
770	ACAGCATCTT	GAGTCCCTTT	TTACCGCTGT	TACCAATTTT	CTTTTGTCTT	TGGGTATACA	TTTAAACCCT
840	CACAAAACAA	AAAGATGGGG	TCACTCTTTA	CATTTCATGG	GCTATGTCAT	TGGATGTTAT	GGGTCACTGC
910	CACAAGATCA	CATCAGGCAG	AAAATCAAAG	AATGTTTTAG	AAAACTTCCT	GTTAACAGAC	CTATTGATTG
980	GAAAGTCTGT	CAACGTATTG	TGGGTCTTTT	GGGTTTTGCT	GCCCCTTTTA	CACAATGTGG	TTATCCTGCT
1050	TTAATGCCCT	TGTATGCATG	CATTCAATCT	AAGCAGGCTT	TCACTTTCTC	GCCAACTTAC	AAGGCCTTTC
1120	TGTGTAAACA	ATACCTGAAC	CTTTACCCCG	TTGCCCGGCA	ACGGCCAGGT	CTGTGCCAAG	TGTTTGCTGA
1190	TGCAACCCCC	ACTGGCTGGG	GCTTGGTTAT	GGGCCATCAG	CGCATGCGTG	GAACCTTTTT	GGCTCCTCTG
1260	CCGATCCATA	CTGCGGAACT	CCTAGCCGCT	TGTTTTGCTC	GCAGCAGGTC	TGGAGCAAAC	ATTCTCGGGA
1330	CGGATAACTC	${\tt TGTTGTTCTC}$	TCCCGCAAAT	ATACATCGTT	TCCATGGCTG	CTAGGNNNNN	NNNNNNNN
1400	NNNNNNNGC	GGGACGTCCT	TTGTTTACGT	CCCGTCGGCG	CTGAATCCCG	CGGACGACCC	TTCTCGGGGC
1470	CGCTTGGGAC	TCTCTCGTCC	CCTTCTCCGT	$\mathtt{CTGCCGTTTC}$	GACCGACCAC	GGGGCGCACC	TCTCTTTACG
1540	CGGACTCCCC	GTCTGTGCCT	TCTCATCTGC	${\tt CGGACCGTGT}$	GCACTTCGCT	TCACCTCTGC	ACGTCGCATG
1610	GAGACCACCG	TGAACGCCCA	${\tt CCAAGTCTTG}$	CCCAAGGTCT	TACATAAGAG	GACTCTTGGA	CTCTCTGTAA
1680	TGTCAACGAC	${\tt CGACCTTGAG}$	GCATACTTCA	AAGACTCTTT	${\tt GTTTAAAGAC}$	TGGGAGGAGT	TGGGGGAGGN
1750	NNNNNNNNN	NNNNNNNN	NNNNNNNN	NNNNNNNN	NNNNNNNN	GCGCACCAGT	TCCATGCAAC
1820	TTTTTCACCT	CTGCCTAATC	ATCTCTTGTT	CATGTCCTAC	TGTTCAAGCC	TCCAAGCTGT	GCCTTGGGTG
1890	GCTTTGGGAC	ATGGACATCG	ACCCTTATAA	AGAATTTGGA	GCTACTGTGG	AGTTACTCTC	GTTTTTGCCT
1960	TCTGACTTCT	TTCCTTCAGT	ACGAGATCTT	${\tt CTAGATACCG}$	CCTCAGCTCT	GTATCGGGAT	GCCTTAGAGT
2030	CTCCTGAACA	TTGTTCACCT	CACCATACTG	CACTCAGGCA	AGCCATTCTT	TGTTGGGGGG	AATTAATGAC
2100	TCTAGCTACC	${\tt TGGGTGGGTG}$	NNNNNNNNA	AGATCCAATA	TCCAGGGACC	TAGTAGTCAG	TTATGTTAAC
2170	ACTAATATGG	${\tt GCCTAAAGTT}$	CAGGCAACTA	${\tt TTGTGGTTTC}$	ACATTTCTTG	TCTCACTTTT	GGAAGAGAAA
2240	CGGTCATAGA	${\tt GTATTTGGTG}$	TCTTTCGGAG	${\tt TGTGGATTCG}$	${\tt CACTCCTCCA}$	GCTTATAGAC	CACCAAATGC
2310	CCCTATCTTA	TCAACACTTC	CGGAGACTAC	${\tt TGTTGTTAGA}$	CGACGAGGCA	GGTCCCCTAG	AANNNNNNN
2380	NNNNNNNNN	${\tt NNNNNNNNN}$	NNNNNNNN	${\tt NNNNNNNNN}$	${\tt NNNNNNNNN}$	NNNNNNNN	NNNNNNNN
2450	NNNNNNNNN	${\tt NNNNNNNNN}$	NNNNNNNN	${\tt NNNNNNNNN}$	${\tt NNNNNNNNN}$	NNNNNNNN	NNNNNNNNN
2520	NNNNNNNNN	NNNNNNTCT	TTTCCTAATA	${\tt TACATTTACA}$	CCAAGACATT	ATTAAAAAAT	GTGAACAATT
2590	TGTAGGCCCA	${\tt CTCACAGTCA}$	ATGAGAAAAG	AAGACTGCAA	${\tt TTGATTATGC}$	CTGCTAGGTT	TTATCCAAAG
2660	GTTACCAAAT	ATTTGCCATT	GGATAAGGGT	ATTAAACCTT	ATTATCCAGA	ACATCTAGTT	AATCATTACT
2730	TCCAAACCAG	ACATTATTTA	CACACTCTAT	GGAAGGCGGG	TATCTTATAT	AAGAGAGAAA	CAACACATAG
2800	CGCCTCATTT	${\tt TGTGGGTCAC}$	${\tt CATATTCTTG}$	GGAACAAGAG	CTACAGCATG	GGGCAGNNNN	NNNNNNNN
2870	NNNNNNNN	${\tt NNNNNNNNN}$	NNNNNNNN	${\tt NNNNNNNNN}$	${\tt NNNNNNNNN}$	NNNNNNNN	NNNNNNNN
2940	NNNNNNNN	${\tt NNNNNNNNN}$	NNNNNNNN	${\tt NNNNNNNNN}$	${\tt NNNNNNNNN}$	NNNNNNNN	NNNNNNNN
3010	NATTCACCCC	ACCGCACGGA	GGCCTTTTGG	${\tt GGTGGAGCCC}$	TCAGGCTCAG	GGCATACTAC	AAACCTTGCC
3080	AGCAAATCCG	$\tt CCTCCTGCCA$	CCACCAATCG	${\tt CCAGTCAGGA}$	AGGCAGCCTA	CCCCTCTGTC	TCCACCTTTG
3150	AGAAACACTC	${\tt NNNNNNNNN}$	${\tt NNNNNNNNN}$	NN			

Genome Com	position
A	588 (18.48%)
${ m T}$	771 (24.23%)
G	573 (18.01%)
$\mathbf{C}$	709 (22.28%)
N	541 (17.00%)
Total Nucleotides	3182
GC%	48.54



## INSERT LENGTH DISTRIBUTION



Protein	Position	Ref AA	Consensus AA	All AAs
 P2	39	F	V	V::100.00(1)
P2	40	$\mathbf{F}$	N	N::100.00(1)
P2	41	$\mathbf{F}$	L	L::100.00(1)
P2	42	$\mathbf{F}$	L	L::100.00(1)
P2	43	$\mathbf{F}$	E	E::100.00(1)
P2	44	$\mathbf{F}$	D	D::100.00(1)
P2	45	$\mathbf{F}$	W	W::100.00(1)
P2	46	$\mathbf{F}$	G	G::100.00(1)
P2	47	$\mathbf{F}$	P	P::100.00(1)
P2	48	$\mathbf{F}$	$\mathbf{C}$	C::100.00(1)
P2	49	$\mathbf{F}$	A	A::100.00(1)
P2	50	$\mathbf{F}$	E	E::100.00(1)
P2	51	$\mathbf{F}$	H	H::100.00(1)
P2	52	$\mathbf{F}$	G	G::100.00(1)
P2	53	$\mathbf{F}$	$\mathbf{E}$	E::100.00(1)
P2	54	$\mathbf{F}$	H	H::100.00(1)
P2	55	$\mathbf{F}$	H	H::100.00(1)
P2	56	$\mathbf{F}$	I	I::100.00(1)
P2	57	$\mathbf{F}$	R	R::100.00(1)
P2	58	$\mathbf{F}$	I	I::100.00(1)
P2	59	$\mathbf{F}$	P	P::100.00(1)
P2	60	$\mathbf{F}$	R	R::100.00(1)
P2	61	$\mathbf{F}$	${ m T}$	T::100.00(1)
P2	62	$\mathbf{F}$	P	P::100.00(1)
P2	63	$\mathbf{F}$	A	A::100.00(1)
P2	64	$\mathbf{F}$	R	R::100.00(1)
P2	65	$\mathbf{F}$	V	V::100.00(1)
P2	66	$\mathbf{F}$	${ m T}$	T::100.00(1)
P2	67	$\mathbf{F}$	G	G::100.00(1)
P2	68	$\mathbf{F}$	G	G::100.00(1)
P2	69	$\mathbf{F}$	V	V::100.00(1)
P2	71	F	${ m L}$	L::100.00(1)
P2	72	F	V	V::100.00(1)
P2	73	F	D	D::100.00(1)
P2	74	$\mathbf{F}$	K	K::100.00(1)
P2	75	$\mathbf{F}$	N	N::100.00(1)
P2	76	$\mathbf{F}$	P	P::100.00(1)
P2	77	$\mathbf{F}$	H	H::100.00(1)
P2	78	$\mathbf{F}$	N	N::100.00(1)
P2	79	$\mathbf{F}$	${ m T}$	T::100.00(1)
P2	80	F	A	A::100.00(1)
P2	81	F	E	E::100.00(1)
P2	82	$\mathbf{F}$	S	S::100.00(1)
P2	83	$\mathbf{F}$	R	R::100.00(1)
P2	84	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	85	F	V	V::100.00(1)

P2	86	$\mathbf{F}$	V	V::100.00(1)
P2	87	$\mathbf{F}$	D	D::100.00(1)
P2	89	$\overline{\mathrm{F}}$	S	S::100.00(1)
P2	90	F	$ { m Q}$	Q::100.00(1)
P2	92	F	S	S::100.00(1)
P2	93	F	R	R::100.00(1)
P2	94	F	G	G::100.00(1)
P2	95	F	N N	N::100.00(1)
P2	96	F	Y	Y::100.00(1)
P2	90 97	F	R	R::100.00(1)
P2	91 98	F	V	V::100.00(1)
P2	98 99	F	v S	` '
P2	100	F	W	S::100.00(1)
			vv P	W::100.00(1)
P2	101	F		P::100.00(1)
P2	102	F	K	K::100.00(1)
P2	104	F	A	A::100.00(1)
P2	105	F	V	V::100.00(1)
P2	106	F	P	P::100.00(1)
P2	107	F	N	N::100.00(1)
P2	108	F	L	L::100.00(1)
P2	109	F	Q	Q::100.00(1)
P2	110	F	S	S::100.00(1)
P2	111	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	112	$\mathbf{F}$	${f T}$	T::100.00(1)
P2	113	$\mathbf{F}$	N	N::100.00(1)
P2	114	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	115	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	116	F	$\mathbf{S}$	S::100.00(1)
P2	117	F	$\mathbf{S}$	S::100.00(1)
P2	118	F	N	N::100.00(1)
P2	119	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	120	$\mathbf{F}$	S	S::100.00(1)
P2	121	$\mathbf{F}$	W	W::100.00(1)
P2	122	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	123	F	$\mathbf{S}$	S::100.00(1)
P2	124	F	${ m L}$	L::100.00(1)
P2	125	F	D	D::100.00(1)
P2	126	$\mathbf{F}$	V	V::100.00(1)
P2	127	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	128	$\mathbf{F}$	A	A::100.00(1)
P2	129	$\mathbf{F}$	A	A::100.00(1)
P2	131	$\mathbf{F}$	Y	Y::100.00(1)
P2	132	$^{-}$	H	H::100.00(1)
P2	133	F	L	L::100.00(1)
P2	134	F	P	P::100.00(1)
P2	135	F	L	L::100.00(2)
P2	136	F	H	H::100.00(2)
P2	137	F	P	P::100.00(2)
P2	138	F	A	A::100.00(1)
P2	139	F	A	A::100.00(1)
P2	140	F	M	M::100.00(1)
14	140	1	141	11100.00(1)

P2	141	F	P	P::100.00(1)
P2	142	F	H	H::100.00(1)
P2	143	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	144	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	145	F	V	V::100.00(1)
P2	146	$\mathbf{F}$	G	G::100.00(1)
P2	147	$\mathbf{F}$	S	S::100.00(1)
P2	148	$\mathbf{F}$	S	S::100.00(1)
P2	149	$\mathbf{F}$	G	G::100.00(1)
P2	150	F	${ m L}$	L::100.00(1)
P2	151	F	${ m S}$	S::100.00(1)
P2	152	F	$\mathbf{R}$	R::100.00(1)
P2	153	$\mathbf{F}$	Y	Y::100.00(1)
P2	154	F	V	V::100.00(1)
P2	155	F	A	A::100.00(1)
P2	156	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
P2	157	$\mathbf{F}$	${f L}$	L::100.00(1)
P2	158	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	159	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	160	$\mathbf{F}$	N	N::100.00(1)
P2	161	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	162	$^{-}$	$\hat{R}$	R::100.00(1)
P2	163	$^{-}$	I	I::100.00(1)
P2	165	F	N	N::100.00(1)
P2	166	F	N	N::100.00(1)
P2	167	F	Q	Q::100.00(1)
P2	168	F	H	H::100.00(1)
P2	169	F	G	G::100.00(1)
P2	170	F	$_{ m T}^{ m C}$	T::100.00(1)
P2	171	F	M	M::100.00(1)
P2	172	F	P	P::100.00(1)
P2	173	F	N	N::100.00(1)
P2	174	F	L	L::100.00(1)
P2	175	F	H	H::100.00(2)
P2	176	F	D	D::100.00(2)
P2	177	F	S	S::100.00(2)
P2	178	F	$\stackrel{ m S}{ m C}$	C::100.00(2)
P2		F	S	
P2	179 180	F	R	S::100.00(2) R::100.00(2)
P2	181	F	N N	N::100.00(2)
P2	182	F	L	` /
		F	Y	L::100.00(2)
P2	183	F		Y::100.00(1)
P2	184		V S	V::100.00(1)
P2	185	F		S::100.00(1)
P2	186	F	L	L::100.00(1)
P2	187	F	L	L::100.00(1)
P2	188	F	L	L::100.00(1)
P2	189	F	$_{\mathbf{Y}}^{\mathbf{L}}$	L::100.00(1)
P2	190	F	Y	Y::100.00(1)
P2	191	F	Q	Q::100.00(1)
P2	192	F	Τ	T::100.00(2)

	P2 P2	194 195		F F		G R	G::100.00(2) R::100.00(2)
	P2	196		$\mathbf{F}$		K	K::100.00(2)
	P2	197		$\mathbf{F}$		$\mathbf{L}$	L::100.00(2)
	P2	198		$\mathbf{F}$		Η	H::100.00(2)
	P2	199		$\mathbf{F}$		L	L::100.00(2)
	P2	200		$\mathbf{F}$		Y	Y::100.00(2)
	P2	201		$\mathbf{F}$		$\mathbf{S}$	S::100.00(2)
	P2	202		$\mathbf{F}$		Η	H::100.00(2)
	P2	203		$\mathbf{F}$		Ρ	P::100.00(2)
	P2	204		$\mathbf{F}$		I	I::100.00(2)
P2		205	$\mathbf{F}$		I		I::100.00(2)
P2		206	$\mathbf{F}$		$\mathbf{M}$		M::100.00(2)
P2		207	$\mathbf{F}$		G		G::100.00(2)
P2		209	$\mathbf{F}$		$\mathbf{R}$		R::100.00(3)
P2		210	$\mathbf{F}$		K		K::100.00(3)
P2		211	$\mathbf{F}$		I		I::100.00(3)
P2		212	$\mathbf{F}$		Р		P::100.00(3)
P2		213	$\mathbf{F}$		$\mathbf{M}$		M::100.00(3)
P2		214	$\mathbf{F}$		G		G::100.00(3)
P2		215	$\mathbf{F}$		V		V::100.00(3)
P2		216	$\mathbf{F}$		G		G::100.00(4)
P2		217	F		$\mathbf{L}$		L::100.00(4)
P2		218	F		$\mathbf{S}$		S::100.00(4)
P2		219	F		Ρ		P::100.00(4)
P2		221	F		$\mathbf{L}$		L::100.00(4)
P2		222	F		$\mathbf{L}$		L::100.00(4)
P2		223	F		A		A::66.67(2) T::33.33(1)
P2		224	F		Q		Q::100.00(3)
P2		226	F		T		T::100.00(3)
P2		227	F		S		S::100.00(3)
P2		228	F		A		A::100.00(3)
P2		229	F		I		I::100.00(3)
P2		230	F		$^{\mathrm{C}}$		C::100.00(4)
P2		231	F		S		S::100.00(4)
P2		232	F		V		V::100.00(4)
P2		233	F		V		V::100.00(4)
P2		234	F		R		R::100.00(4)
P2		235	F		R		R::100.00(4)
P2		236	$_{ m F}$		A P		A::100.00(4)
P2 P2		238	г F		Н		P::100.00(4)
P2		239 240	F		$^{\rm II}$		H::100.00(4) C::100.00(4)
P2		240 241	F		L		L::100.00(4)
P2		241	F		A		A::100.00(5)
P2		244	F		S		S::100.00(5)
P2		244 $245$	F		Y		Y::100.00(5)
P2		245 246	F		M		M::100.00(5)
P2		240 $247$	F		D		D::100.00(6)
P2		248	F		D		D::100.00(6)
P2		249	F		V		V::100.00(6)
1 4		44 <i>0</i>	Τ.		v		v100.00(0)

P2	250	$\mathbf{F}$	V	V::100.00(6)
P2	251	$\mathbf{F}$	L	L::100.00(6)
P2	252	F	G	G::100.00(6)
P2	252	F	A	` /
				A::100.00(6)
P2	254	F	K	K::100.00(6)
P2	255	F	S	S::100.00(6)
P2	256	$\mathbf{F}$	V	V::100.00(6)
P2	257	$\mathbf{F}$	Q	Q::100.00(5)
P2	258	$\mathbf{F}$	H	H::100.00(5)
P2	259	$\mathbf{F}$	L	L::100.00(5)
P2	260	F	E	E::100.00(5)
P2	261	F	S	S::100.00(5)
P2	262	F	L	` ,
				L::100.00(5)
P2	264	F	T	T::100.00(5)
P2	265	F	A	A::100.00(4)
P2	266	$\mathbf{F}$	V	V::100.00(4)
P2	267	$\mathbf{F}$	T	T::100.00(5)
P2	268	$\mathbf{F}$	N	N::100.00(5)
P2	270	$\mathbf{F}$	L	L::100.00(5)
P2	$\frac{271}{271}$	F	L	L::100.00(5)
P2	272	F	S	S::100.00(5)
P2	273	F	L	L::100.00(5)
P2	274	F	G	G::100.00(5)
P2	275	F	I	I::100.00(5)
P2	276	F	H	H::100.00(5)
P2	277	$\mathbf{F}$	L	L::100.00(6)
P2	278	F	N	N::100.00(6)
P2	279	F	P	P::100.00(6)
P2	280	$\mathbf{F}$	H	N::50.00(3) H::50.00(3)
P2	281	F	K	K::100.00(6)
P2	282	F	T	T::100.00(6)
P2	283	F	K	K::100.00(6)
			R	
P2	284	F		R::100.00(6)
P2	285	F	W	W::100.00(6)
P2	286	F	G	G::100.00(6)
P2	287	F	H	Y::50.00(3) H::50.00(3)
P2	288	F	S	S::100.00(6)
P2	289	$\mathbf{F}$	L	L::100.00(5)
P2	290	$\mathbf{F}$	H	H::100.00(5)
P2	292	$\mathbf{F}$	M	M::100.00(4)
P2	293	F	G	G::100.00(4)
P2	294	F	Y	Y::100.00(4)
P2	295	F	V	V::100.00(4)
P2	296	F	I	I::100.00(3)
P2	297	F	G	G::100.00(3)
P2	298	F	С	C::100.00(3)
P2	299	F	Y	Y::100.00(3)
P2	300	$\mathbf{F}$	G	G::100.00(3)
P2	301	$\mathbf{F}$	S	S::100.00(3)
P2	302	$\mathbf{F}$	L	L::100.00(3)
P2	303	F	P	P::100.00(3)
				( - )

P2	304	$\mathbf{F}$	Q	Q::100.00(3)
P2	305	$\mathbf{F}$	D	D::100.00(3)
P2	306	$ m_F$	H	H::100.00(3)
P2	307	F	I	I::100.00(3)
P2	308	F	R	R::66.67(2) I::33.33(1)
P2	309	F	Q	Q::100.00(3)
P2	310	$\mathbf{F}$	K	K::100.00(3)
P2	311	F	I	I::100.00(3)
P2	312	$\mathbf{F}$	K	K::100.00(3)
P2	313	$\mathbf{F}$	$\mathbf{E}$	E::100.00(3)
P2	314	$\mathbf{F}$	$^{\mathrm{C}}$	C::66.67(2) F::33.33(1)
P2	316	$\mathbf{F}$	${ m R}$	R::50.00(1) K::50.00(1)
P2	317	$\overline{\mathrm{F}}$	K	K::100.00(2)
P2	318	F	L	L::100.00(2)
P2		F	P	
	319			P::100.00(2)
P2	320	F	V	V::100.00(3)
P2	321	F	N	N::100.00(3)
P2	322	$\mathbf{F}$	$\mathbf{R}$	R::100.00(3)
P2	323	$\mathbf{F}$	P	P::100.00(3)
P2	324	$\mathbf{F}$	I	I::100.00(3)
P2	325	$\mathbf{F}$	D	D::100.00(4)
P2	326	$\mathbf{F}$	W	W::100.00(4)
P2	327	$\mathbf{F}$	K	K::100.00(4)
P2	328	F	V	V::100.00(3)
P2	329	$\overline{\mathrm{F}}$	Ċ	C::100.00(3)
P2	330	F	$\overset{\circ}{\mathrm{Q}}$	Q::75.00(3) H::25.00(1)
P2	331	F	R	R::100.00(4)
P2			I	` /
	332	F		I::100.00(4)
P2	333	F	V	V::100.00(4)
P2	334	F	G	G::100.00(4)
P2	335	F	L	L::100.00(4)
P2	336	$\mathbf{F}$	L	L::100.00(4)
P2	337	$\mathbf{F}$	G	G::100.00(4)
P2	339	$\mathbf{F}$	A	A::100.00(4)
P2	340	$\mathbf{F}$	A	A::100.00(6)
P2	341	$\mathbf{F}$	P	P::100.00(6)
P2	343	$\mathbf{F}$	${ m T}$	T::100.00(6)
P2	344	$\mathbf{F}$	Q	Q::100.00(6)
P2	345	$\mathbf{F}$	$ m \ddot{c}$	C::100.00(6)
P2	346	F	$\overset{\circ}{\mathrm{G}}$	G::100.00(6)
P2	347	F	Y	Y::100.00(6)
P2	348	F	P	P::100.00(6)
P2	349	F	A	A::100.00(6)
P2	350	F	L	L::100.00(6)
P2	351	F	M	M::100.00(6)
P2	352	F	P	P::100.00(6)
P2	353	$\mathbf{F}$	$\mathbf{L}$	L::100.00(6)
P2	354	$\mathbf{F}$	Y	Y::100.00(6)
P2	355	F	A	A::100.00(6)
P2	356	F	$\mathbf{C}$	C::100.00(6)
P2	357	F	I	I::100.00(6)
				\ /

P2	358	$\mathbf{F}$	Q	Q::100.00(6)
P2	359	$\mathbf{F}$	$\mathbf{S}$	S::100.00(6)
P2	360	$\mathbf{F}$	K	K::100.00(6)
P2	361	$\overline{\mathrm{F}}$	Q	Q::100.00(6)
P2	362	F	Ä	A::100.00(6)
		F		
P2	364		T	T::100.00(6)
P2	366	F	S	S::100.00(6)
P2	367	$\mathbf{F}$	P	P::100.00(6)
P2	368	F	${ m T}$	T::100.00(6)
P2	369	$\mathbf{F}$	Y	Y::100.00(6)
P2	370	$\mathbf{F}$	K	K::100.00(5)
P2	371	$\mathbf{F}$	A	A::100.00(5)
P2	373	$\mathbf{F}$	${ m L}$	L::100.00(5)
P2	374	$\mathbf{F}$	$\mathbf{C}$	C::100.00(6)
P2	375	$\mathbf{F}$	K	K::100.00(5)
P2	376	$\overline{\mathrm{F}}$	Q	Q::100.00(4)
P2	377	F	Y	Y::100.00(4)
P2	378	F	L	L::100.00(4)
P2		F	N	N::100.00(4)
	379			` '
P2	380	F	L	L::100.00(3)
P2	381	F	Y	Y::100.00(3)
P2	382	F	P	P::100.00(3)
P2	383	$\mathbf{F}$	V	V::100.00(3)
P2	384	F	A	A::100.00(5)
P2	385	$\mathbf{F}$	$\mathbf{R}$	R::100.00(5)
P2	386	$\mathbf{F}$	Q	Q::100.00(5)
P2	387	$\mathbf{F}$	$\mathbf{R}$	R::100.00(5)
P2	388	${f F}$	P	P::100.00(5)
P2	389	${ m F}$	G	G::100.00(4)
P2	390	$\mathbf{F}$	${ m L}$	L::100.00(3)
P2	391	$\mathbf{F}$	$\mathbf{C}$	C::100.00(3)
P2	392	$\mathbf{F}$	Q	Q::100.00(3)
P2	393	$\overline{\mathrm{F}}$	V	V::100.00(3)
P2	395	F	Å	A::100.00(3)
P2	396	F	D	D::100.00(3)
P2	397	F	A	A::100.00(3)
P2		F	T	
	398			T::100.00(3)
P2	399	F	P	P::100.00(3)
P2	400	F	T	T::100.00(3)
P2	401	F	G	G::100.00(3)
P2	402	$\mathbf{F}$	W	W::100.00(3)
P2	403	F	G	G::100.00(3)
P2	404	$\mathbf{F}$	${ m L}$	L::100.00(3)
P2	405	F	V	V::100.00(3)
P2	406	F	${ m M}$	M::100.00(3)
P2	407	$\mathbf{F}$	G	G::100.00(3)
P2	408	F	H	H::100.00(3)
P2	409	$\mathbf{F}$	Q	Q::100.00(3)
P2	410	${f F}$	R	R::100.00(3)
P2	411	F	M	M::100.00(3)
P2	412	F	R	R::100.00(4)
- <del>-</del>	114	1	10	10100.00(4)

P2	413	$\mathbf{F}$	G	G::100.00(4)
P2	414	F	${ m T}$	T::100.00(4)
P2	416	$\mathbf{F}$	${ m L}$	L::100.00(4)
P2	417	$\mathbf{F}$	A	A::100.00(5)
P2	418	$\mathbf{F}$	P	P::100.00(5)
P2	419	$\mathbf{F}$	${f L}$	L::100.00(5)
P2	420	$\mathbf{F}$	P	P::100.00(5)
P2	421	$\mathbf{F}$	I	I::100.00(5)
P2	422	$\mathbf{F}$	${ m H}$	H::100.00(5)
P2	423	$\overline{\mathrm{F}}$	$\overline{\mathrm{T}}$	T::100.00(5)
P2	424	$\overline{\mathrm{F}}$	Ā	A::100.00(4)
P2	425	F	E	E::100.00(4)
P2	426	F	L	L::100.00(1)
P2	427	F	L	L::100.00(4)
P2	428	F	A	A::100.00(4)
P2	429	F	A	
				A::100.00(4)
P2	430	F	C	C::100.00(4)
P2	432	F	A	A::100.00(4)
P2	433	F	R	R::100.00(2)
P2	434	F	S	S::100.00(2)
P2	435	F	R	R::100.00(2)
P2	436	F	S	S::100.00(2)
P2	437	$\mathbf{F}$	G	G::100.00(2)
P2	438	$\mathbf{F}$	A	A::100.00(2)
P2	439	$\mathbf{F}$	N	N::100.00(2)
P2	440	$\mathbf{F}$	I	I::100.00(2)
P2	441	F	${ m L}$	L::100.00(2)
P2	442	$\mathbf{F}$	G	G::100.00(2)
P2	443	$\mathbf{F}$	${ m T}$	T::100.00(2)
P2	444	$\mathbf{F}$	D	D::100.00(2)
P2	445	$\mathbf{F}$	N	N::100.00(2)
P2	446	$\mathbf{F}$	${ m S}$	S::100.00(2)
P2	447	$\mathbf{F}$	V	V::100.00(2)
P2	448	$\mathbf{F}$	V	V::100.00(1)
P2	449	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	450	F	$\mathbf{S}$	S::100.00(1)
P2	451	$\mathbf{F}$	R	R::100.00(1)
P2	452	F	K	K::100.00(1)
P2	453	$\mathbf{F}$	Y	Y::100.00(1)
P2	454	F	${ m T}$	T::100.00(1)
P2	455	F	S	S::100.00(1)
P2	457	F	P	P::100.00(1)
P2	458	F	W	W::100.00(1)
P2	459	F	L	L::100.00(1)
P2	460	F	L	L::100.00(1)
P2	470	F	G	G::100.00(1)
P2	470	F	T	T::100.00(1)
P2	471	F	S	S::100.00(1)
P2	474	F	V	V::100.00(1)
P2 P2		F	Y Y	Y::100.00(1) Y::100.00(1)
	475 476	r F	Y V	
P2	476	Г	V	V::100.00(1)

P2	477	$\mathbf{F}$	P	P::100.00(1)
P2	478	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	479	$\mathbf{F}$	A	A::100.00(1)
P2	480	$ m_F$	L	L::100.00(1)
P2	481	F	N	N::100.00(1)
P2	482	F	P	P::100.00(1)
P2	483	F	A	A::100.00(1)
		F		` '
P2	484		D	D::100.00(1)
P2	485	F	D	D::100.00(1)
P2	486	F	P	P::100.00(1)
P2	487	F	S	S::100.00(1)
P2	488	F	R	R::100.00(1)
P2	489	$\mathbf{F}$	G	G::100.00(1)
P2	490	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
P2	491	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	492	$\mathbf{F}$	G	G::100.00(1)
P2	493	$\mathbf{F}$	${ m L}$	L::100.00(1)
P2	494	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P2	495	$\mathbf{F}$	${ m R}$	R::100.00(1)
P2	496	$\mathbf{F}$	P	P::100.00(1)
P2	497	$\mathbf{F}$	${f L}$	L::100.00(1)
P2	498	$\overline{\mathrm{F}}$	$_{ m L}^{-}$	L::100.00(1)
P2	499	F	R	R::100.00(1)
P2	500	F	L	L::100.00(1)
P2	501	F	P	P::100.00(1)
P2	503	F	R	· /
		F		R::100.00(1)
P2	504		P	P::100.00(1)
P2	505	F	T	T::100.00(1)
P2	506	F	T	T::100.00(1)
P2	507	F	G	G::100.00(1)
P2	508	F	$\frac{\mathbf{R}}{\mathbf{R}}$	R::100.00(2)
P2	509	$\mathbf{F}$	${ m T}$	T::100.00(2)
P2	510	$\mathbf{F}$	$\mathbf{S}$	S::100.00(2)
P2	511	$\mathbf{F}$	${ m L}$	L::100.00(2)
P2	512	$\mathbf{F}$	Y	Y::100.00(2)
P2	513	$\mathbf{F}$	A	A::100.00(2)
P2	514	$\mathbf{F}$	D	D::100.00(2)
P2	515	$\mathbf{F}$	$\mathbf{S}$	S::100.00(2)
P2	516	$\mathbf{F}$	P	P::100.00(2)
P2	517	$\mathbf{F}$	$\mathbf{S}$	S::100.00(2)
P2	518	$\mathbf{F}$	V	V::100.00(2)
P2	519	$\mathbf{F}$	P	P::100.00(1)
P2	520	$\overline{\mathrm{F}}$	S	S::100.00(1)
P2	521	F	H	H::100.00(1)
P2	521	F	L	L::100.00(1)
P2	522 $523$	F	P P	P::100.00(1)
P2	523 $524$	F	r D	D::100.00(1)
P2 P2	$\frac{524}{525}$	F	R	R::100.00(1)
		r F		
P2	526		V	V::100.00(1)
P2	527	F	H	H::100.00(1)
P2	529	F	A	A::100.00(1)

P2	530	F	S	S::100.00(1)
P2	531	F	P	P::100.00(1)
P2	532	F	L	L::100.00(1)
P2	533	F	Н	H::100.00(1)
P2	534	F	V	V::100.00(23)
P2	535	F	A A	A::100.00(23)
				` ,
P2	536	F	W	W::100.00(23)
P2	537	F	R	R::100.00(23)
P2	538	F	P	P::100.00(23)
S2	40	F	S	S::100.00(1)
S2	41	F	Ĭ	I::100.00(1)
S2	43	F	S	S::100.00(1)
S2	44	F	R	R::100.00(1)
S2 S2	45	F	I	I::100.00(1)
S2 S2	46	F	G	` /
				G::100.00(1)
S2	47	F	D	D::100.00(1)
S2	48	F	P	P::100.00(1)
S2	49	F	A	A::100.00(1)
S2	50	F	L	L::100.00(1)
S2	51	F	N	N::100.00(1)
S2	52	F	M	M::100.00(1)
S2	53	F	E	E::100.00(1)
S2	54	F	N	N::100.00(1)
S2	55	F	I	I::100.00(1)
S2	56	F	T	T::100.00(1)
S2	57	F	S	S::100.00(1)
S2	58	F	G	G::100.00(1)
S2	60	F	L	L::100.00(1)
S2	61	F	G	G::100.00(1)
S2	62	F	P	P::100.00(1)
S2 S2	63	F	L	
			L L	L::100.00(1)
S2	64	F		L::100.00(1)
S2	65	F	V	V::100.00(1)
S2	66	F	L	L::100.00(1)
S2	67	F	Q	Q::100.00(1)
S2	68	F	A	A::100.00(1)
S2	69	F	G	G::100.00(1)
S2	72	F	L	L::100.00(1)
S2	73	F	L	L::100.00(1)
S2	74	F	T	T::100.00(1)
S2	75	F	R	R::100.00(1)
S2	76	F	I	I::100.00(1)
S2	77	F	L	L::100.00(1)
S2	78	F	$\overline{\mathrm{T}}$	T::100.00(1)
S2 S2	79	F	I	I::100.00(1)
S2	80	F	P	P::100.00(1)
S2	81	F	Q	Q::100.00(1)
S2 S2	82	F	S	S::100.00(1)
			L L	
S2	83	F		L::100.00(1)
S2	84	F	D	D::100.00(1)
S2	85	F	S	S::100.00(1)

S2	86	$\mathbf{F}$	W	W::100.00(1)
$\tilde{\mathrm{S2}}$	87	$^{-}$	W	W::100.00(1)
S2		F		T::100.00(1)
	88		T	· ,
S2	89	F	$\mathbf{S}$	S::100.00(1)
S2	90	F	${ m L}$	L::100.00(1)
S2	91	$\mathbf{F}$	N	N::100.00(1)
S2	93	$\mathbf{F}$	${ m L}$	L::100.00(1)
$\tilde{\mathrm{S2}}$	94	$^{-}$	$\overline{\mathrm{G}}$	G::100.00(1)
S2	95	F	G	G::100.00(1)
				` '
S2	96	$\mathbf{F}$	${ m T}$	T::100.00(1)
S2	97	F	${ m T}$	T::100.00(1)
S2	98	$\mathbf{F}$	V	V::100.00(1)
S2	99	F	$\mathbf{C}$	C::100.00(1)
S2	100	F	L	L::100.00(1)
S2	101	F	G	G::100.00(1)
S2	102	F	$\mathbf{Q}$	Q::100.00(1)
S2	103	F	$\mathbf{S}$	S::100.00(1)
S2	104	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
S2	105	$\mathbf{F}$	Q	Q::100.00(1)
S2	106	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
S2	107	$\mathbf{F}$	P	P::100.00(1)
$\tilde{\mathrm{S2}}$	108	F	$^{\mathrm{T}}$	T::100.00(1)
S2	109	F	S	S::100.00(1)
S2	110	F	N	N::100.00(1)
S2	111	$\mathbf{F}$	Η	H::100.00(1)
S2	112	F	$\mathbf{S}$	S::100.00(1)
S2	113	$\mathbf{F}$	P	P::100.00(1)
S2	114	$\mathbf{F}$	${ m T}$	T::100.00(1)
S2	115	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
S2	116	$^{-}$	$\tilde{ ext{C}}$	C::100.00(1)
S2	117	F	P	P::100.00(1)
			P	
S2	118	F		P::100.00(1)
S2	119	F	$\mathbf{T}$	T::100.00(1)
S2	120	F	$\mathbf{C}$	C::100.00(1)
S2	121	$\mathbf{F}$	P	P::100.00(1)
S2	122	$\mathbf{F}$	G	G::100.00(1)
S2	123	F	Y	Y::100.00(1)
S2	124	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
$\tilde{S}2$	125	F	W	W::100.00(1)
		F		. ,
S2	126		M	M::100.00(1)
S2	127	F	C	C::100.00(1)
S2	128	$\mathbf{F}$	L	L::100.00(1)
S2	129	F	$\mathbf{R}$	R::100.00(1)
S2	130	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
S2	132	$\mathbf{F}$	I	I::100.00(1)
S2	133	F	I	I::100.00(1)
$\tilde{\mathrm{S2}}$	135	F	L	L::100.00(2)
S2	137	F	I	I::100.00(2)
		F		` '
S2	138		L	L::100.00(1)
S2	139	F	L	L::100.00(1)
S2	140	$\mathbf{F}$	L	L::100.00(1)

S2	141	$\mathbf{F}$	$\mathbf{C}$	C::100.00(1)
				` ,
S2	142	F	L	L::100.00(1)
S2	143	F	I	I::100.00(1)
S2	145	F	${f L}$	L::100.00(1)
S2	146	F	${ m L}$	L::100.00(1)
S2	147	$\mathbf{F}$	V	V::100.00(1)
S2	148	$\mathbf{F}$	${ m L}$	L::100.00(1)
S2	149	$\mathbf{F}$	${f L}$	L::100.00(1)
$\tilde{S}2$	150	$^{-}$	D	D::100.00(1)
S2	151	F	Y	Y::100.00(1)
		F	R	. ,
S2	152			R::100.00(1)
S2	153	F	G	G::100.00(1)
S2	154	F	M	M::100.00(1)
S2	155	F	${ m L}$	L::100.00(1)
S2	156	F	P	P::100.00(1)
S2	157	$\mathbf{F}$	V	V::100.00(1)
S2	158	F	$\mathbf{C}$	C::100.00(1)
S2	159	$\mathbf{F}$	P	P::100.00(1)
S2	160	$\mathbf{F}$	${f L}$	L::100.00(1)
S2	161	F	I	I::100.00(1)
S2	162	F	P	P::100.00(1)
S2	163	F	G	G::100.00(1)
				` '
S2	164	F	S	S::100.00(1)
S2	165	F	S	S::100.00(1)
S2	166	F	$\frac{\mathrm{T}}{-}$	T::100.00(1)
S2	167	$\mathbf{F}$	${ m T}$	T::100.00(1)
S2	168	F	$\mathbf{S}$	S::100.00(1)
S2	169	F	${ m T}$	T::100.00(1)
S2	170	$\mathbf{F}$	G	G::100.00(1)
S2	171	F	P	P::100.00(1)
S2	172	F	$^{\mathrm{C}}$	C::100.00(1)
S2	173	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
S2	174	$\mathbf{F}$	${ m T}$	T::100.00(1)
S2	175	$\mathbf{F}$	$^{\mathrm{C}}$	C::100.00(2)
S2	176	F	$\overset{\circ}{\mathrm{T}}$	T::100.00(2)
S2	177	F	$^{\mathrm{T}}$	T::100.00(2)
S2	178	F	P	P::100.00(2)
S2	179	F	A	A::100.00(2)
S2	180	F	Q	Q::100.00(2)
S2	181	F	G	G::100.00(2)
S2	182	$\mathbf{F}$	${f T}$	T::100.00(2)
S2	183	$\mathbf{F}$	$\mathbf{S}$	S::100.00(2)
S2	184	$\mathbf{F}$	${ m M}$	M::100.00(1)
S2	185	F	Y	Y::100.00(1)
S2	186	F	Р	P::100.00(1)
S2	187	F	$\mathbf{S}$	S::100.00(1)
S2	188	$\mathbf{F}$	$^{\mathrm{C}}$	C::100.00(1)
$\tilde{S}2$	189	$^{-}$	$\dot{ ext{C}}$	C::100.00(1)
S2	190	F	$\overset{\circ}{\mathrm{C}}$	C::100.00(1)
S2	191	F	$^{ m C}_{ m T}$	T::100.00(1)
S2	191	F	K	K::100.00(1)
02	194	T.	17	12100.00(1)

CO	109	177	D	$D_{c} = 100,00(2)$
S2	193	F	P	P::100.00(2)
S2	194	F	S	S::100.00(2)
S2	195	F	D	D::100.00(2)
S2	196	F	G	G::100.00(2)
S2	197	F	N	N::100.00(2)
S2	198	$\mathbf{F}$	$^{\mathrm{C}}$	C::100.00(2)
S2	199	$\mathbf{F}$	${ m T}$	T::100.00(2)
S2	200	$\mathbf{F}$	$^{\mathrm{C}}$	C::100.00(2)
S2	201	$\mathbf{F}$	I	I::100.00(2)
S2	202	$\mathbf{F}$	P	P::100.00(2)
S2	203	$\mathbf{F}$	I	I::100.00(2)
$\tilde{S}2$	204	$^{-}$	P	P::100.00(2)
$\tilde{S}^2$	205	F	S	S::100.00(2)
S2	206	F	$\overset{\mathtt{S}}{\mathbf{S}}$	S::100.00(2)
S2	207	F	W	` '
				W::100.00(2)
S2	208	F	A	A::100.00(2)
S2	210	F	G	G::100.00(3)
S2	211	$\mathbf{F}$	K	K::100.00(3)
S2	213	$\mathbf{F}$	${ m L}$	L::100.00(3)
S2	214	$\mathbf{F}$	$\mathbf{W}$	W::100.00(3)
S2	215	$\mathbf{F}$	${ m E}$	E::100.00(3)
S2	216	$\mathbf{F}$	W	W::100.00(3)
S2	217	$\mathbf{F}$	A	A::100.00(4)
S2	218	$\mathbf{F}$	$\mathbf{S}$	S::100.00(4)
S2	219	$\mathbf{F}$	A	A::100.00(4)
$\tilde{S}2$	220	$^{-}$	R	R::100.00(4)
$\tilde{S}^2$	222	F	S	S::100.00(4)
S2	$\frac{222}{223}$	F	$\mathbf{W}$	W::66.67(2) *::33.33(1)
S2	$\frac{223}{224}$	F	L	L::100.00(3)
S2	225	F	S	S::100.00(3)
				` '
S2	226	F	L	L::100.00(3)
S2	227	F	L	L::100.00(3)
S2	228	F	V	V::100.00(3)
S2	229	F	P	P::100.00(3)
S2	231	$\mathbf{F}$	V	V::100.00(4)
S2	232	$\mathbf{F}$	Q	Q::100.00(4)
S2	233	$\mathbf{F}$	$\mathbf{W}$	W::100.00(4)
S2	235	$\mathbf{F}$	V	V::100.00(4)
S2	236	$\mathbf{F}$	G	G::100.00(4)
S2	237	$\mathbf{F}$	${ m L}$	L::100.00(4)
S2	238	$\mathbf{F}$	$\mathbf{S}$	S::100.00(4)
S2	239	$\mathbf{F}$	P	P::100.00(4)
S2	240	$\mathbf{F}$	${ m T}$	T::100.00(4)
$\tilde{S}2$	$\frac{1}{241}$	F	V	V::100.00(5)
S2	242	F	W	W::100.00(6)
S2	243	F	L	L::100.00(5)
S2	243 $244$	F	S	S::100.00(5)
S2 S2			V	· /
	245	F		V::100.00(5)
S2	246	F	I	I::100.00(6)
S2	247	F	W	W::100.00(6)
S2	248	$\mathbf{F}$	$\mathbf{M}$	M::100.00(6)

S2	249	$\mathbf{F}$	${ m M}$	M::100.00(6)
S2	250	$\mathbf{F}$	W	W::100.00(6)
S2	251	$\mathbf{F}$	Y	Y::100.00(6)
S2	252	$\mathbf{F}$	W	W::100.00(6)
S2	253	$\mathbf{F}$	G	G::100.00(6)
S2	254	$\mathbf{F}$	Р	P::100.00(6)
S2	255	$\mathbf{F}$	$\mathbf{S}$	S::100.00(6)
S2	256	$\mathbf{F}$	L	L::100.00(6)
S2	257	$\mathbf{F}$	Y	Y::100.00(6)
S2	258	$\mathbf{F}$	$\mathbf{S}$	S::100.00(5)
S2	259	$\mathbf{F}$	I	I::100.00(5)
S2	260	$\mathbf{F}$	L	L::100.00(5)
S2	261	$\mathbf{F}$	$\mathbf{S}$	S::100.00(5)
S2	262	$\mathbf{F}$	P	P::100.00(5)
S2	264	$\mathbf{F}$	${ m L}$	L::100.00(5)
$\tilde{S}2$	265	$^{-}$	P	P::100.00(5)
$\tilde{S}2$	266	$^{-}$	L	L::100.00(4)
$\tilde{S}2$	267	$^{-}$	$_{ m L}^{-}$	L::100.00(4)
$\tilde{S}2$	268	F	P	P::100.00(5)
$\tilde{S}2$	269	F	Ī	I::100.00(5)
$\tilde{S}2$	272	$^{-}$	$^{-}$ C	C::100.00(5)
$\tilde{S}2$	273	F	Ĺ	L::100.00(5)
S2	274	F	W	W::100.00(5)
$\tilde{S}2$	275	F	V	V::100.00(5)
$\tilde{S}2$	276	F	Ϋ́	Y::100.00(5)
				• • • • • • • • • • • • • • • • • • • •
X	1	F	M	M::100.00(1)
X	2	$\mathbf{F}$	A	A::100.00(1)
X X	2 3	F F	A A	A::100.00(1) A::100.00(1)
X X X	$\begin{matrix} 2\\ 3\\ 4\end{matrix}$	F F F	A A R	A::100.00(1) A::100.00(1) R::100.00(1)
X X X X	2 3 4 13	F F F	A A R R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1)
X X X X	2 3 4 13 14	F F F F	A A R R D	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1)
X X X X X	2 3 4 13 14 15	F F F F	A A R R D	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1)
X X X X X X	2 3 4 13 14 15 16	F F F F F	A A R R D V L	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1)
X X X X X X X	2 3 4 13 14 15 16 17	F F F F F	A A R R D V L	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1)
X X X X X X X X	2 3 4 13 14 15 16 17	F F F F F F	A A R R D V L C L	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1)
X X X X X X X X X	2 3 4 13 14 15 16 17 18	F F F F F F F	A A R R D V L C L R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) R::100.00(1)
X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20	F F F F F F F	A A R R D V L C L R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1)
X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21	F F F F F F F F	A A R R D V L C L R P	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) V::100.00(1)
X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22	F F F F F F F F F F	A A R R D V L C L R P V G	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) O::100.00(1) C::100.00(1) C::100.00(1)
X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23	F F F F F F F F F F F F F	A A R R D V L C L R P V G A	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) A::100.00(1) V::100.00(1) A::100.00(1)
X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) P::100.00(1) C::100.00(1) F::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1)
X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) V::100.00(1) V::100.00(1) S::100.00(1) S::100.00(1) A::100.00(1) E::100.00(1) S::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) V::100.00(1) S::100.00(1) G::100.00(1) A::100.00(1) E::100.00(1) R::100.00(1) E::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) V::100.00(1) S::100.00(1) A::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) G::100.00(1) G::100.00(1) G::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) R::100.00(1) P::100.00(1) P::100.00(1) S::100.00(1) A::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) L::100.00(1) P::100.00(1) P::100.00(1) V::100.00(1) G::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) E::100.00(1) F::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1) R::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R P S	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) E::100.00(1) P::100.00(1) P::100.00(1) V::100.00(1) G::100.00(1) A::100.00(1) E::100.00(1) E::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R P S G	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) E::100.00(1) P::100.00(1) V::100.00(1) V::100.00(1) S::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1) G::100.00(1) G::100.00(1) G::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32 33	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R P S G P	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) E::100.00(1) P::100.00(1) V::100.00(1) S::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) E::100.00(1) S::100.00(1) R::100.00(1) G::100.00(1) G::100.00(1) R::100.00(1) R::100.00(1) P::100.00(1) P::100.00(1) P::100.00(1) P::100.00(1) P::100.00(1)
X X X X X X X X X X X X X X X X X X X	2 3 4 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 31 32	F F F F F F F F F F F F F F F F F F F	A A R R D V L C L R P V G A E S R G R P S G	A::100.00(1) A::100.00(1) R::100.00(1) R::100.00(1) D::100.00(1) V::100.00(1) L::100.00(1) C::100.00(1) E::100.00(1) P::100.00(1) V::100.00(1) V::100.00(1) S::100.00(1) A::100.00(1) A::100.00(1) E::100.00(1) S::100.00(1) R::100.00(1) S::100.00(1) G::100.00(1) G::100.00(1) G::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1) C::100.00(1)

X	36	$\mathbf{F}$	${ m T}$	T::100.00(1)
X	37	$\mathbf{F}$	${f L}$	L::100.00(1)
X	38	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
X	39	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
X	40	$\mathbf{F}$	Р	P::100.00(1)
X	41	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
X	42	F	Р	P::100.00(1)
X	43	F	$\mathbf{S}$	S::100.00(1)
X	44	$^{-}$	Ā	A::100.00(1)
X	45	$^{-}$	V	V::100.00(1)
X	46	$^{-}$	S	S::100.00(1)
X	47	F	$\overset{\sim}{ m T}$	T::100.00(1)
X	48	F	D	D::100.00(1)
X	49	F	Н	H::100.00(1)
X	50	F	G	G::100.00(1)
X	51	F	Ä	A::100.00(2)
X	52	F	H	H::100.00(2)
X	53	F	L	L::100.00(2)
X	54	F	S	S::100.00(2)
X	55	F	L	L::100.00(2)
X	56	F	R	R::100.00(2)
X	57	F	G	G::100.00(2)
X	58	F	L	L::100.00(2)
X	59	F	P	P::100.00(2)
X	60	F	V	V::100.00(2)
X	61	F	$\overset{\mathbf{v}}{\mathbf{C}}$	C::100.00(2)
X	62	F	A	A::100.00(2)
X	64	F	S	S::100.00(1)
X	65	F	S	S::100.00(1)
X	66	F	A	A::100.00(1)
X	67	F	G	G::100.00(1)
X	68	F	P P	P::100.00(1)
X	69	F	$\stackrel{1}{\mathrm{C}}$	C::100.00(1)
X	70	F	A	A::100.00(1)
X	70 71	F	L L	L::100.00(1)
X	72	F	R	R::100.00(1)
X	$\frac{72}{74}$	F	${ m T}$	T::100.00(1)
X	75	F	S	S::100.00(1)
X		F	A	A::100.00(1)
X	76 77	F	R R	` '
	77 79	r F		R::100.00(23)
X X	78 70	r F	R	R::100.00(23)
	79	r F	M	M::100.00(23)
X	80		E	E::100.00(23)
X	81	F	T	T::100.00(23)
X	82	F F	$\mathbf{T}$	T::100.00(23)
X	83		V	V::100.00(23)
X	84	F	N	N::100.00(23)
X	85 ec	F	A	A::100.00(23)
X	86	F	Н	H::100.00(23)
X	87	F	Q	Q::100.00(23)
X	88	F	V	V::95.65(22)

X	89	$\mathbf{F}$	$\mathbf{L}$	L::100.00(23)
X	90	$\mathbf{F}$	Р	P::100.00(23)
X	91	$\mathbf{F}$	K	K::100.00(23)
X	92	$\mathbf{F}$	V	V::100.00(23)
X	93	$\mathbf{F}$	${f L}$	L::100.00(23)
X	94	$\mathbf{F}$	H	H::100.00(23)
X	95	$\mathbf{F}$	K	K::95.65(22)
X	96	$\mathbf{F}$	R	R::100.00(23)
X	97	$\mathbf{F}$	${ m T}$	T::100.00(23)
X	98	$\mathbf{F}$	${f L}$	L::100.00(23)
X	99	$\mathbf{F}$	G	G::100.00(23)
X	100	$\mathbf{F}$	$\mathbf{L}$	L::100.00(22)
X	101	$\mathbf{F}$	$\mathbf{S}$	S::100.00(22)
X	102	$\mathbf{F}$	V	V::100.00(22)
X	103	$\mathbf{F}$	$\mathbf{M}$	M::95.45(21)
X	104	$\mathbf{F}$	$\mathbf{S}$	S::100.00(22)
X	105	$\overline{\mathrm{F}}$	$\overset{\sim}{ m T}$	T::100.00(22)
X	106	$\overline{\mathrm{F}}$	$ar{ ext{T}}$	T::100.00(22)
X	107	F	D	D::100.00(22)
X	108	F	L	L::95.45(21)
X	109	$\overline{\mathrm{F}}$	$^{-}\mathrm{E}$	E::100.00(22)
X	110	F	A	A::100.00(22)
X	111	F	Y	Y::100.00(22)
X	113	F	K	K::100.00(22)
X	114	F	D	D::100.00(22)
X	115	F	S	S::100.00(22)
X	116	$\overline{\mathrm{F}}$	$\overset{\sim}{ m L}$	L::90.91(20)
X	118	$\overline{\mathrm{F}}$	K	K::100.00(22)
X	119	$\overline{\mathrm{F}}$	D	D::100.00(22)
X	120	$\mathbf{F}$	W	W::100.00(22)
X	121	$\mathbf{F}$	$\mathbf{E}$	E::100.00(22)
X	122	$\mathbf{F}$	$\mathbf{E}$	E::100.00(22)
X	123	$\mathbf{F}$	${f L}$	L::100.00(22)
X	124	$\mathbf{F}$	G	G::95.45(21)
X	125	$\mathbf{F}$	${f E}$	E::100.00(21)
X	144	$\mathbf{F}$	$\mathbf{A}$	A::100.00(22)
X	145	$\mathbf{F}$	P	P::100.00(22)
X	146	$\mathbf{F}$	V	V::100.00(22)
X	147	$\mathbf{F}$	P	P::100.00(22)
X	148	$\mathbf{F}$	$\mathbf{C}$	C::95.45(21)
X	149	$\mathbf{F}$	N	N::100.00(22)
X	152	$\mathbf{F}$	${ m T}$	T::100.00(22)
X	153	$\mathbf{F}$	$\mathbf{S}$	S::100.00(22)
$\overline{C}$	1	F	M	M::100.00(23)
$\overset{\circ}{\mathrm{C}}$	2	F	D	D::100.00(23)
$\overset{\circ}{\mathrm{C}}$	3	F	I	I::100.00(23)
$\overset{\circ}{\mathrm{C}}$	4	F	D	D::100.00(23)
$\dot{\mathrm{C}}$	5	$\overline{\mathrm{F}}$	P	P::100.00(23)
$^{\mathrm{C}}$	6	$\mathbf{F}$	Y	Y::100.00(23)
$^{ m C}$	7	$\mathbf{F}$	K	K::100.00(23)
$^{ m C}$	8	$\mathbf{F}$	$\mathbf{E}$	E::100.00(23)
				\ -/

$\mathbf{C}$	10	$\mathbf{F}$	G	G::100.00(23)
$\mathbf{C}$	11	$\mathbf{F}$	A	A::100.00(23)
C	12	F	T	T::100.00(23)
C	13	$\mathbf{F}$	V	V::100.00(23)
C	14	F	E	E::100.00(23)
C	15	F	L	L::100.00(23)
C	16	F	L	L::100.00(23)
C	17	F	S	S::100.00(1)
Č	19	F	L L	L::100.00(1)
Č	20	F	P	P::100.00(1)
Č	21	F	S	S::100.00(1)
Č	22	F	D	D::100.00(3)
Č	25	F	P	P::100.00(3)
Č	26	F	S	S::100.00(3)
Č	27	F	V	V::100.00(5)
Č	28	F	R	R::100.00(5)
Č	29	F	D	D::100.00(5)
Č	30	F	L	L::100.00(5)
C	31	F	L	L::100.00(5)
$\overset{\circ}{\mathrm{C}}$	32	F	D	D::100.00(5)
Č	33	F	T	T::100.00(5)
C	34	F	A	A::100.00(5)
C	35	F	S	S::100.00(5)
C	36	F	Ä	A::100.00(5)
C	37	F	L	L::100.00(4)
C	38	F	Y	Y::100.00(4)
C	39	F	R	R::100.00(4)
C	40	F	D	D::100.00(4)
C	41	F	A	A::100.00(4)
C	42	F	L	L::100.00(4)
C	43	F	E	E::100.00(4)
C	44	F	S	S::100.00(4)
C	45	F	P	P::100.00(4)
C	46	F	E	E::100.00(4)
C	47	F	H	H::100.00(4)
C	48	F	C	C::100.00(4)
C	49	F	S	S::100.00(4)
C	50	F	P	P::100.00(4)
C	51	F	Н	H::100.00(1)
C	52	F	Н	H::100.00(4)
C	53	F	T	T::100.00(4)
C	54	F	A	A::100.00(1)
C	55	F	L	L::100.00(1)
C	56	F	R	R::100.00(4)
C	57	F	Q	Q::100.00(4)
C	58	F	A	A::100.00(4)
C	59	F	I	I::100.00(4)
C	60	F	L	L::100.00(4)
C	61	F	C	C::100.00(4)
C	62	F	W	W::100.00(4)
C	63	F	G	G::100.00(4)
$\sim$	00		9	J.1100.00(4)

$\mathbf{C}$	64	F	E	E::100.00(4)
$\mathbf{C}$	65	F	L	L::100.00(4)
$\mathbf{C}$	66	F	M	M::100.00(4)
$\mathbf{C}$	67	F	${ m T}$	T::100.00(4)
$\mathbf{C}$	68	F	L	L::100.00(4)
$\mathbf{C}$	69	F	A	A::100.00(4)
$\mathbf{C}$	70	F	${ m T}$	T::100.00(4)
$\mathbf{C}$	71	F	W	W::100.00(2)
$\mathbf{C}$	72	F	V	V::100.00(2)
$\mathbf{C}$	73	F	G	G::100.00(2)
C	78	F	D	D::100.00(1)
C	79	F	P	P::100.00(1)
C	80	F	I	I::100.00(1)
C	81	F	S	S::100.00(1)
C	82	F	R	R::100.00(1)
Č	83	$\overline{\mathrm{F}}$	D	D::100.00(1)
Č	84	$\overline{\mathrm{F}}$	L	L::100.00(1)
Č	85	F	V	V::100.00(1)
Č	86	F	V	V::100.00(1)
Č	87	F	S	S::100.00(1)
Č	88	F	$\overset{\sim}{\mathrm{Y}}$	Y::100.00(1)
$\overset{\circ}{\mathrm{C}}$	89	F	V	V::100.00(1)
$\overset{\circ}{\mathrm{C}}$	90	F	N	N::100.00(1)
$\overset{\circ}{\mathrm{C}}$	91	F	T	T::100.00(1)
C	92	F	N	N::100.00(1)
C	93	F	M	M::100.00(1)
C	94	F	G	G::100.00(1)
C	95	F	L	L::100.00(1)
C	96	F	K	K::100.00(1)
C	98	F	R	R::100.00(1)
C	99	F	Q	Q::100.00(1)
C	100	F	L	L::100.00(1)
C	100	F	L	L::100.00(1)
C	101	F	W	W::100.00(1)
C	102	F	H	H::100.00(1)
C	104	F	I	I::100.00(1)
C	106	F	S	S::100.00(1)
C	107	F	$\stackrel{\circ}{\mathrm{C}}$	C::100.00(1)
C		F	L	L::100.00(1)
C	108 109	F	T	T::100.00(1)
C		F	G	
C	111	r F		G::100.00(2)
	112		R	R::100.00(2)
С	113	F	E	E::100.00(2)
С	114	F	T	T::100.00(2)
C C	115	F F	V I	V::100.00(2)
	116			I::100.00(2)
С	117	F	E	E::100.00(2)
С	118	F	Y	Y::100.00(2)
С	119	F	L	L::100.00(2)
С	120	F	V	V::100.00(2)
C	121	F	S	S::100.00(2)

$\mathbf{C}$	123	$\mathbf{F}$	G	G::100.00(2)
$\overset{\circ}{\mathrm{C}}$	124	F	V	` '
				V::100.00(2)
C	125	F	W	W::100.00(2)
$^{\mathrm{C}}$	126	F	I	I::100.00(2)
$^{\mathrm{C}}$	127	$\mathbf{F}$	R	R::100.00(1)
$\mathbf{C}$	128	F	${ m T}$	T::100.00(1)
$^{ m C}$	129	$\mathbf{F}$	Р	P::100.00(1)
$\stackrel{ ext{C}}{ ext{C}}$	130	F	P	
				P::100.00(1)
C	131	F	A	A::100.00(1)
$\mathbf{C}$	132	F	Y	Y::100.00(1)
$\mathbf{C}$	133	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
$\mathbf{C}$	134	$\mathbf{F}$	P	P::100.00(1)
$\mathbf{C}$	135	$\mathbf{F}$	P	P::100.00(1)
$\overset{\circ}{\mathrm{C}}$	136	F	N	N::100.00(1)
$^{\rm C}$				
	137	F	A	A::100.00(1)
$\mathbf{C}$	138	$\mathbf{F}$	Р	P::100.00(1)
$\mathbf{C}$	139	F	I	I::100.00(1)
$\mathbf{C}$	140	$\mathbf{F}$	${ m L}$	L::100.00(1)
$\mathbf{C}$	141	F	$\mathbf{S}$	S::100.00(1)
$\mathbf{C}$	142	$\mathbf{F}$	${ m T}$	T::100.00(1)
$\overset{\circ}{\mathrm{C}}$	143	F	Ĺ	L::100.00(1)
$^{\rm C}$			P	
	144	F		P::100.00(1)
$\mathbf{C}$	145	$\mathbf{F}$	${ m E}$	E::100.00(1)
$\mathbf{C}$	146	$\mathbf{F}$	${ m T}$	T::100.00(1)
$\mathbf{C}$	147	$\mathbf{F}$	${ m T}$	T::100.00(1)
$^{\mathrm{C}}$	148	$\mathbf{F}$	V	V::100.00(1)
$^{ m C}$	149	$\mathbf{F}$	V	V::100.00(1)
$\overset{\circ}{\mathrm{C}}$	150	F	R	R::100.00(1)
С	151	F	R	R::100.00(1)
$\mathbf{C}$	152	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
$\mathbf{C}$	153	F	G	G::100.00(1)
$\mathbf{C}$	154	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
$\mathbf{C}$	155	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
$\mathbf{C}$	156	$\mathbf{F}$	Р	P::100.00(1)
$\ddot{\mathrm{C}}$	157	F	R	R::100.00(1)
P1	1	$\mathbf{F}$	${f M}$	M::100.00(1)
P1	2	$\mathbf{F}$	P	P::100.00(1)
P1	3	$\mathbf{F}$	${ m L}$	L::100.00(1)
P1	$\overline{4}$	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P1	5	F	$\overset{\circ}{ m Y}$	Y::100.00(1)
P1	6	F	Q	Q::100.00(1)
P1	7	$\mathbf{F}$	${ m H}$	H::100.00(1)
P1	9	F	R	R::100.00(1)
P1	10	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
P1	11	F	${f L}$	L::100.00(1)
P1	12	F	$_{ m L}^{-}$	L::100.00(1)
P1	13	F	L	L::100.00(1)
P1	14	F	L	L::100.00(1)
P1	15	F	D	D::100.00(1)
P1	16	$\mathbf{F}$	D	D::100.00(1)
P1	17	$\mathbf{F}$	$\mathbf{E}$	E::100.00(1)
				• •

P1	18	$\mathbf{F}$	A	A::100.00(1)
P1	19	$\mathbf{F}$	G	G::100.00(1)
P1	20	F	Р	P::100.00(1)
P1	21	$\mathbf{F}$	${ m L}$	L::100.00(1)
P1	22	F	${ m E}$	E::100.00(1)
P1	78	$\mathbf{F}$	$\mathbf{S}$	S::100.00(6)
P1	80	$\mathbf{F}$	P	P::100.00(6)
P1	81	$\mathbf{F}$	N	N::100.00(7)
P1	82	$\mathbf{F}$	I	I::100.00(7)
P1	83	F	Н	H::100.00(13)
P1	84	$\mathbf{F}$	${f L}$	L::100.00(13)
P1	85	$\mathbf{F}$	Н	H::100.00(13)
P1	86	$\mathbf{F}$	Q	Q::100.00(13)
P1	87	$\mathbf{F}$	D	D::100.00(14)
P1	88	$\mathbf{F}$	I	I::100.00(14)
P1	89	$\mathbf{F}$	I	I::100.00(14)
P1	90	$\mathbf{F}$	K	K::100.00(15)
P1	91	$\overline{\mathrm{F}}$	K	K::100.00(15)
P1	92	F	$^{\rm C}$	C::100.00(15)
P1	93	F	E	E::100.00(15)
P1	94	F	Q	Q::100.00(15)
P1	96	F	V	V::100.00(15)
P1	97	F	Ğ	G::100.00(15)
P1	98	F	P	P::100.00(15)
P1	99	F	L	L::100.00(15)
P1	100	F	$\stackrel{ m L}{ m T}$	T::100.00(15)
P1	100	F	V	V::100.00(15)
P1	101	F	v N	, ,
P1	$\frac{102}{103}$	F	E	N::100.00(15)
P1	103	F	K	E::100.00(15)
P1			R R	K::100.00(15)
	105	F		R::100.00(15)
P1	106	F	R	R::100.00(15)
P1	107	F	L	L::100.00(15)
P1	108	F	Q	Q::100.00(15)
P1	109	F	L	L::100.00(15)
P1	110	F	I	I::100.00(15)
P1	111	F	M	M::100.00(15)
P1	112	F D	P	P::100.00(15)
P1	113	F	A	A::100.00(15)
P1	114	F	R	R::100.00(15)
P1	116	F	Y	Y::100.00(15)
P1	117	F	P	P::100.00(15)
P1	118	F	K	K::80.00(12) N::20.00(3)
P1	119	F	V	V::100.00(15)
P1	120	F	${ m T}$	T::100.00(15)
P1	121	F	K	K::100.00(15)
P1	122	F	Y	Y::100.00(15)
P1	123	F	$^{ m L}$	L::100.00(15)
P1	124	F	P	P::100.00(15)
P1	125	F	$\mathbf{L}$	L::100.00(15)
P1	126	F	D	D::100.00(15)

P1	127	$\mathbf{F}$	K	K::100.00(9)
P1	128	$\mathbf{F}$	G	G::100.00(9)
P1	129	$\mathbf{F}$	I	I::100.00(9)
P1	130	F	K	K::100.00(8)
P1	131	$\mathbf{F}$	P	P::100.00(8)
P1	132	$\overline{\mathrm{F}}$	Y	Y::100.00(2)
P1	133	$\overline{\mathrm{F}}$	Y	Y::100.00(2)
P1	134	F	P	P::100.00(3)
P1	135	F	E	E::100.00(3)
P1	136	F	H	H::100.00(3)
P1	137	F	L	L::100.00(3)
P1	138	F	V	V::100.00(2)
P1	139	F	N N	N::100.00(2)
P1	140	F	H	H::100.00(1)
P1	140	F	Y	Y::100.00(1)
P1	141	F	Q	
P1	143 144	F	T T	Q::100.00(1)
				T::100.00(1)
P1	145	F	R	R::100.00(1)
P1	146	F	H	H::100.00(1)
P1	147	F	Y	Y::100.00(1)
P1	148	F	L	L::100.00(1)
P1	149	F	H	H::100.00(1)
P1	150	F	T	T::100.00(1)
P1	151	F	L	L::100.00(1)
P1	152	F	W	W::100.00(1)
P1	153	F	K	K::100.00(1)
P1	154	F	A	A::100.00(1)
P1	155	F	G	G::100.00(1)
P1	156	F	I	I::100.00(1)
P1	157	F	${ m L}$	L::100.00(1)
P1	158	F	Y	Y::100.00(1)
P1	159	F	K	K::100.00(1)
P1	160	F	R	R::100.00(1)
P1	161	F	$\mathbf{E}$	E::100.00(1)
P1	162	F	T	T::100.00(1)
P1	163	F	T	T::100.00(1)
P1	164	F	H	H::100.00(1)
P1	165	F	S	S::100.00(1)
P1	166	F	A	A::100.00(1)
P1	167	F	S	S::100.00(1)
P1	169	$\mathbf{F}$	C	C::100.00(1)
P1	170	F	G	G::100.00(1)
P1	171	F	S	S::100.00(1)
P1	172	$\mathbf{F}$	P	P::100.00(1)
P1	173	$\mathbf{F}$	Y	Y::100.00(1)
P1	174	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
P1	175	$\mathbf{F}$	W	W::100.00(1)
P1	176	F	E	E::100.00(1)
P1	177	F	Q	Q::100.00(1)
P1	178	F	E	E::100.00(1)
P1	179	F	L	L::100.00(1)
		-	=	(1)

P1	180	$\mathbf{F}$	Q	Q::100.00(1)
P1	181	$\mathbf{F}$	H	H::100.00(1)
P1	182	F	G	G::100.00(1)
P1	183	F	A	A:: $100.00(1)$
P1	236	F	I	I::100.00(1)
P1	237	F	Н	H::100.00(1)
P1	238	$^{-}$	P	P::100.00(1)
P1	239	$^{-}$	${f T}$	T::100.00(1)
P1	240	$^{-}$	$\overline{\mathrm{A}}$	A::100.00(1)
P1	241	F	R	R::100.00(1)
P1	242	F	R	R::100.00(1)
P1	243	F	P	P::100.00(1)
P1	245	F	G	G::100.00(1)
P1	246	F	V	V::100.00(1)
P1	247	F	Ė	E::100.00(1)
P1	248	F	P	P::100.00(1)
P1	249	F	S	S::100.00(1)
P1	250	F	G	G::100.00(1)
P1	250	F	S	S::100.00(1)
P1	252	F	G	G::100.00(1)
P1	252	F	Н	H::100.00(1)
P1	254	F	$\stackrel{\Pi}{\mathrm{T}}$	T::100.00(1)
P1	255	F	$\overset{\mathtt{1}}{\mathrm{T}}$	T::100.00(1)
P1	256	F	N	N::100.00(1)
P1	257	F	L	L::100.00(1)
P1	258	F	A	A::100.00(1)
P1	$\frac{250}{259}$	F	S	S::100.00(1)
P1	260	F	K	K::100.00(1)
P1	261	F	S	S::100.00(1)
P1	262	F	A	A::100.00(1)
P1	263	F	S	S::100.00(1)
P1	264	F	$^{ m S}$	C::100.00(1)
P1	$\frac{204}{265}$	F	Н	H::100.00(1)
P1	266	F	H	H::100.00(1)
Г1 Р1	267	F		Q::100.00(1)
Г1 Р1	268	F	$_{ m S}^{ m Q}$	S::100.00(1)
г 1 Р1	269	F	ь Р	P::100.00(1)
P1		F	V	` '
Г1 Р1	$\frac{270}{271}$	F	v R	V::100.00(1) R::100.00(1)
Г1 Р1	$\frac{271}{272}$	F	K K	K::100.00(1) K::100.00(1)
Г1 Р1	273	F	A	A::100.00(1) A::100.00(1)
Г1 Р1		F		A::100.00(1) A::100.00(1)
	274		$\begin{array}{c} \mathrm{A} \\ \mathrm{Y} \end{array}$	Y::100.00(1) Y::100.00(1)
P1	275	F		
P1	276	F	P	P::100.00(1)
P1	277	F	$\mathbf{S}_{\mathbf{V}}$	S::100.00(1)
P1	278	F	V S	V::100.00(1)
P1	279	F		S::100.00(1)
P1	280	F	T	T::100.00(1)
P1	282	F	E	E::100.00(1)
P1	283	F	K	K::100.00(1)
P1	284	F	H	H::100.00(1)

S1         1         F         M         M::100.00(1)           S1         2         F         G         G::100.00(1)           S1         3         F         Q         Q::100.00(1)           S1         57         F         T         T::100.00(1)           S1         58         F         P         P::100.00(1)           S1         59         F         P         P::100.00(1)           S1         60         F         H         H::100.00(1)           S1         61         F         G         G::100.00(1)           S1         63         F         L         L::100.00(1)           S1         63         F         L         L::100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)					
S1         3         F         Q         Q::100.00(1)           S1         57         F         T         T::100.00(1)           S1         58         F         P         P::100.00(1)           S1         59         F         P         P::100.00(1)           S1         60         F         H         H::100.00(1)           S1         61         F         G         G::100.00(1)           S1         63         F         L         L::100.00(1)           S1         63         F         L         L::100.00(1)           S1         64         F         L         L::100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         72         F         G         G::100.00(1)	S1		$\mathbf{F}$	${ m M}$	M::100.00(1)
S1         57         F         T         T::100.00(1)           S1         58         F         P         P::100.00(1)           S1         59         F         P         P::100.00(1)           S1         60         F         H         H::100.00(1)           S1         61         F         G         G::100.00(1)           S1         62         F         G         G::100.00(1)           S1         63         F         L         L::100.00(1)           S1         64         F         L         L::100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         72         F         G         G::100.00(1)	S1	2	$\mathbf{F}$	G	G::100.00(1)
S1         57         F         T         T::100.00(1)           S1         58         F         P         P::100.00(1)           S1         59         F         P         P::100.00(1)           S1         60         F         H         H::100.00(1)           S1         61         F         G         G::100.00(1)           S1         62         F         G         G::100.00(1)           S1         63         F         L         L::100.00(1)           S1         64         F         L         L::100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         72         F         G         G::100.00(1)	S1	3	$\mathbf{F}$	Q	Q::100.00(1)
S1         58         F         P         P::100.00(1)           S1         59         F         P         P::100.00(1)           S1         60         F         H         H::100.00(1)           S1         61         F         G         G::100.00(1)           S1         62         F         G         G::100.00(1)           S1         63         F         L         L::100.00(1)           S1         64         F         L         L::100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         73         F         I         L::100.00(1)           S1         75         F         Q         Q::100.00(1)	S1		$\mathbf{F}$		
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S1       63       F       L       L::100.00(1)         S1       64       F       L       L::100.00(1)         S1       65       F       G       G::100.00(1)         S1       66       F       W       W::100.00(1)         S1       67       F       S       S::100.00(1)         S1       68       F       P       P::100.00(1)         S1       69       F       Q       Q::100.00(1)         S1       70       F       A       A::100.00(1)         S1       71       F       Q       Q::100.00(1)         S1       72       F       G       G::100.00(1)         S1       73       F       I       I::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81					* /
S1         64         F         L         L:100.00(1)           S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         72         F         G         G::100.00(1)           S1         73         F         I         I:100.00(1)           S1         74         F         L         L::100.00(1)           S1         75         F         Q         Q::100.00(1)           S1         76         F         T         T::100.00(1)           S1         77         F         L         L::100.00(1)           S1         78         F         P         P::100.00(1)           S1         80         F         N         N::100.00(1)					* /
S1         65         F         G         G::100.00(1)           S1         66         F         W         W::100.00(1)           S1         67         F         S         S::100.00(1)           S1         67         F         S         S::100.00(1)           S1         68         F         P         P::100.00(1)           S1         69         F         Q         Q::100.00(1)           S1         70         F         A         A::100.00(1)           S1         71         F         Q         Q::100.00(1)           S1         72         F         G         G::100.00(1)           S1         73         F         I         L::100.00(1)           S1         74         F         L         L::100.00(1)           S1         75         F         Q         Q::100.00(1)           S1         76         F         T         T::100.00(1)           S1         77         F         L         L::100.00(1)           S1         78         F         P         P::100.00(1)           S1         80         F         N         N::100.00(1)					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
S1       67       F       S       S::100.00(1)         S1       68       F       P       P::100.00(1)         S1       69       F       Q       Q::100.00(1)         S1       70       F       A       A::100.00(1)         S1       71       F       Q       Q::100.00(1)         S1       72       F       G       G::100.00(1)         S1       73       F       I       L::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84					
S1       68       F       P       P::100.00(1)         S1       69       F       Q       Q::100.00(1)         S1       70       F       A       A::100.00(1)         S1       71       F       Q       Q::100.00(1)         S1       71       F       G       G::100.00(1)         S1       73       F       I       L::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85					. ,
S1       69       F       Q       Q::100.00(1)         S1       70       F       A       A::100.00(1)         S1       71       F       Q       Q::100.00(1)         S1       72       F       G       G::100.00(1)         S1       73       F       I       I::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86					` /
S1       70       F       A       A::100.00(1)         S1       71       F       Q       Q::100.00(1)         S1       72       F       G       G::100.00(1)         S1       73       F       I       I::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       89					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	S1	69	$\mathbf{F}$	Q	Q::100.00(1)
S1       72       F       G       G::100.00(1)         S1       73       F       I       I::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90	S1	70	$\mathbf{F}$	A	A::100.00(1)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	S1	71	$\mathbf{F}$	Q	Q::100.00(1)
S1       73       F       I       I::100.00(1)         S1       74       F       L       L::100.00(1)         S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       93	S1	72	$\mathbf{F}$		G::100.00(1)
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					( )
S1       75       F       Q       Q::100.00(1)         S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94					
S1       76       F       T       T::100.00(1)         S1       77       F       L       L::100.00(1)         S1       78       F       P       P::100.00(1)         S1       79       F       A       A::100.00(1)         S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       94					· /
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$					( )
$\begin{array}{cccccccccccccccccccccccccccccccccccc$					. ,
S1       80       F       N       N::100.00(1)         S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       99					` /
S1       81       F       P       P::100.00(1)         S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       98       F       S       S::100.00(1)         S1       100					. ,
S1       82       F       P       P::100.00(1)         S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       96       F       P       P::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100					. ,
S1       83       F       P       P::100.00(1)         S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       102 <td></td> <td></td> <td></td> <td></td> <td>` /</td>					` /
S1       84       F       A       A::100.00(1)         S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       R       R::100.00(1)         S1       102 <td></td> <td></td> <td></td> <td></td> <td>` /</td>					` /
S1       85       F       T       T::100.00(1)         S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       R       R::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103 </td <td></td> <td></td> <td></td> <td></td> <td>` /</td>					` /
S1       86       F       T       T::100.00(1)         S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       R       R::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103 </td <td></td> <td></td> <td></td> <td></td> <td>. ,</td>					. ,
S1       87       F       N       N::100.00(1)         S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       R       R::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					. ,
S1       88       F       R       R::100.00(1)         S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       R       R::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					. ,
S1       89       F       Q       Q::100.00(1)         S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)		87	$\mathbf{F}$	N	N::100.00(1)
S1       90       F       S       S::100.00(1)         S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)	S1	88	$\mathbf{F}$	$\mathbf{R}$	R::100.00(1)
S1       91       F       G       G::100.00(1)         S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)	S1	89	$\mathbf{F}$	Q	Q::100.00(1)
S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)	S1	90	$\mathbf{F}$	$\mathbf{S}$	S::100.00(1)
S1       92       F       R       R::100.00(1)         S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)	S1	91	$\mathbf{F}$	G	G::100.00(1)
S1       93       F       Q       Q::100.00(1)         S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)	S1	92	$\mathbf{F}$		
S1       94       F       P       P::100.00(1)         S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					. ,
S1       95       F       T       T::100.00(1)         S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1       96       F       P       P::100.00(1)         S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1       97       F       L       L::100.00(1)         S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					. ,
S1       98       F       S       S::100.00(1)         S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1       99       F       P       P::100.00(1)         S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1       100       F       P       P::100.00(1)         S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1       101       F       L       L::100.00(1)         S1       102       F       R       R::100.00(1)         S1       103       F       N       N::100.00(1)					
S1 102 F R R::100.00(1) S1 103 F N N::100.00(1)					
S1 103 F N N::100.00(1)					. ,
S1 104 F T T::100.00(1)					
	S1	104	F	<b>'1</b> '	T::100.00(1)

	Meta data
Assembly file: Annotation file: Reference file:	HBV-RYD-23.sam /home3/vatt01s/Work/Project-150-HBV/Data/P150-1/Annotation/HBV.anno KT963508.fa.
User name Hostname Location Date/Time	ales01a Alpha /home2/ales01a/HBV/P150-5/HBV-RYD-23 Fri 22 Mar 09:28:22 GMT 2019