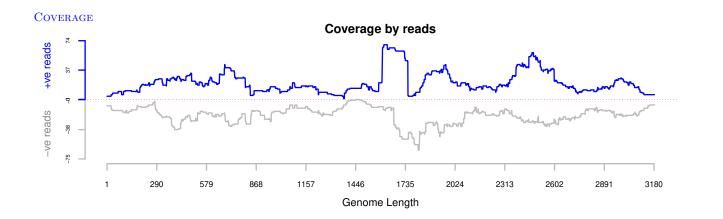
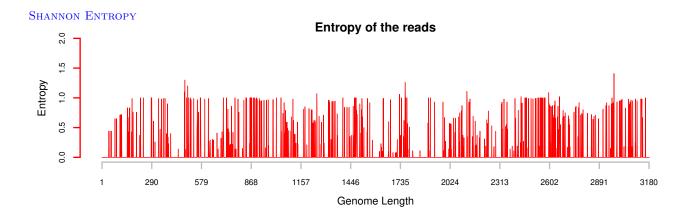
File name Ref name Ref len Program used	HBV-RYD-50.sam KX357637.1 Hepatitis B virus isolate MK20ETH, complete genome 3182 Tanoti Assembler 1.0
Total reads Mapped reads Unmapped reads Mapped loan pairs Average read length	120220 916 (0.76%) 119304 12 147nt
Coverage Average depth Average insert length	3182nt (100.00%) 41 reads/site 0nt

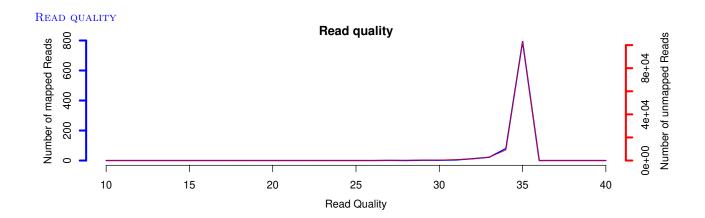




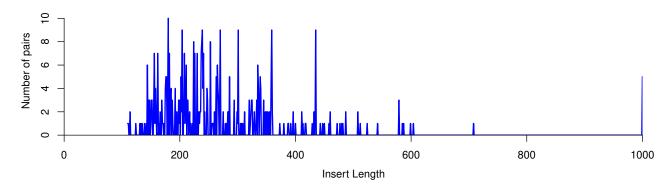
Consensus sequence

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3150
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```

Genome Compos	sition
A	735 (23.10%)
T	891 (28.00%)
G	691 (21.72%)
\mathbf{C}	865 (27.18%)
N	0 (0.00%)
Total Nucleotides	3182
GC%	48.90



INSERT LENGTH DISTRIBUTION



Protein	Position	Ref AA	Consensus AA	All AAs
P2	1	F	H	H::100.00(12)
P2	$\overline{2}$	$\overline{\mathrm{F}}$	N	N::100.00(12)
P2	3	F	L	L::100.00(12)
P2	4	\mathbf{F}	P	P::100.00(12)
P2	5	\mathbf{F}	P	P::100.00(12)
P2	6	\mathbf{F}	N	N::100.00(12)
P2	7	\mathbf{F}	S	S::100.00(12)
P2	8	\mathbf{F}	A	A::100.00(16)
P2	9	\mathbf{F}	R	R::100.00(19)
P2	10	\mathbf{F}	S	S::100.00(19)
P2	11	\mathbf{F}	Q	Q::100.00(22)
P2	12	\mathbf{F}	S	S::100.00(22)
P2	13	\mathbf{F}	E	E::90.91(20) K::9.09(2)
P2	14	\mathbf{F}	R	R::100.00(22)
P2	15	\mathbf{F}	P	P::100.00(22)
P2	16	\mathbf{F}	V	V::100.00(22)
P2	17	\mathbf{F}	S	S::90.91(20) F::9.09(2)
P2	18	\mathbf{F}	P	P::90.91(20) S::9.09(2)
P2	19	\mathbf{F}	C	C::100.00(22)
P2	20	F	W	W::100.00(22)
P2	21	F	W	W::100.00(22)
P2	22	F	L	L::100.00(24)
P2	23	F	Q	Q::100.00(24)
P2	25	F	R	R::100.00(24)
P2	26	F	N	N::100.00(24)
P2	27	F	S	S::100.00(24)
P2	28	F	K	K::80.00(16) E::20.00(4)
P2	29	F	P	P::100.00(20)
P2	30	F	С	C::100.00(20)
P2	31	F	S	S::100.00(22)
P2	32	F	D	D::100.00(26)
P2	33	F	Y	Y::100.00(26)
P2	34	F	С	C::100.00(26)
P2	35	F	L	L::100.00(28)
P2	36	F	S	S::80.00(20) T::20.00(5)
P2	37	F	H	H::100.00(25)
P2	38	F	I	I::80.00(20) L::20.00(5)
P2	39	F	V	V::100.00(28)
P2	40	F	N	N::100.00(28)
P2	41	F	L	L::100.00(28)
P2	42	F	L	L::100.00(24)
P2	43	F	E	E::100.00(26)
P2	44	F	D	D::100.00(26)
P2	45	F	W	W::100.00(26)
P2	46	F	G	G::100.00(26)
P2	47	F	P	P::100.00(23)

P2	48	\mathbf{F}	$^{\mathrm{C}}$	C::100.00(23)
P2	49	\mathbf{F}	A	A::73.91(17) T::26.09(6)
P2	50	\mathbf{F}	\mathbf{E}	E::100.00(23)
P2	51	\mathbf{F}	H	H::100.00(23)
P2	52	\mathbf{F}	G	G::82.61(19) E::17.39(4)
P2	53	\mathbf{F}	\mathbf{E}	E::73.91(17) K::26.09(6)
P2	54	\mathbf{F}	$_{ m H}$	H::100.00(23)
P2	55	\mathbf{F}	$_{ m H}$	H::100.00(23)
P2	56	\mathbf{F}	I	I::100.00(23)
P2	57	$^{-}$	$^{-}$ R	R::91.30(21) K::8.70(2)
P2	58	F	${ m T}$	T::55.56(10) I::44.44(8)
P2	59	F	P	P::100.00(18)
P2	60	F	R	R::76.47(13) K::23.53(4)
P2	61	F	${ m T}$	T::100.00(18)
P2	62	F	P	P::100.00(18)
P2	63	F	A	A::100.00(18)
P2	64	F	R	R::100.00(13)
P2	65	F	V	V::100.00(24)
P2	66	F	$\overset{ extsf{v}}{ extsf{T}}$	T::100.00(25)
P2	67	F	G	` /
P2	68	F	G	G::100.00(27)
P2	69	F	V	G::100.00(29)
		F	v L	V::100.00(29)
P2	71			L::100.00(27)
P2	72 72	F	V	V::100.00(28)
P2	73 74	F	D	D::92.86(26) N::7.14(2)
P2	74	F	K	K::100.00(28)
P2	75 76	F	N	N::100.00(27)
P2	76	F	Р	P::100.00(27)
P2	77 - 2	F	H	H::100.00(27)
P2	78 - 8	F	N	N::100.00(27)
P2	79	F	T	T::100.00(27)
P2	80	F	S	S::53.85(14) A::46.15(12)
P2	81	F	E	E::100.00(28)
P2	82	F	\mathbf{S}	S::100.00(24)
P2	83	F	\mathbf{R}	R::100.00(24)
P2	84	F	L	L::100.00(26)
P2	85	F	V	V::100.00(26)
P2	86	F	V	V::100.00(26)
P2	87	\mathbf{F}	D	D::100.00(26)
P2	89	\mathbf{F}	\mathbf{S}	S::100.00(23)
P2	90	\mathbf{F}	Q	Q::100.00(23)
P2	92	\mathbf{F}	\mathbf{S}	S::100.00(24)
P2	93	\mathbf{F}	\mathbf{R}	R::100.00(32)
P2	94	\mathbf{F}	G	G::100.00(36)
P2	95	\mathbf{F}	\mathbf{S}	S::52.63(20) N::47.37(18)
P2	96	\mathbf{F}	\mathbf{S}	S::52.63(20) H::44.74(17)
P2	97	F	\mathbf{R}	R::100.00(40)
P2	98	\mathbf{F}	V	V::100.00(42)
P2	99	\mathbf{F}	\mathbf{S}	S::100.00(42)
P2	100	\mathbf{F}	W	W::100.00(43)
P2	101	\mathbf{F}	P	P::100.00(44)

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                  105
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P2
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P2
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P2	207	\mathbf{F}	G	G::95.45(42)
P2	209	\mathbf{F}	${ m R}$	R::92.50(37) Q::5.00(2)
P2	210	$ m_F$	K	K::100.00(40)
P2	211	F	I	` ,
				I::100.00(43)
P2	212	F	P	P::100.00(38)
P2	213	F	M	M::94.74(36) I::5.26(2)
P2	214	F	G	G::94.74(36) K::5.26(2)
P2	215	\mathbf{F}	V	V::100.00(39)
P2	216	\mathbf{F}	G	G::94.87(37) S::5.13(2)
P2	217	\mathbf{F}	${ m L}$	L::100.00(41)
P2	218	$ m_F$	$\overline{\mathrm{S}}$	S::100.00(53)
P2	219	F	P	P::100.00(53)
P2	$\frac{213}{221}$	F	L	` '
				L::100.00(51)
P2	222	F	L	L::100.00(49)
P2	223	\mathbf{F}	A	A::100.00(49)
P2	224	\mathbf{F}	Q	Q::100.00(49)
P2	226	\mathbf{F}	${ m T}$	T::100.00(49)
P2	227	\mathbf{F}	\mathbf{S}	S::100.00(48)
P2	228	\mathbf{F}	A	A::100.00(63)
P2	229	\mathbf{F}	I	I::100.00(66)
P2	230	$\overline{\mathrm{F}}$	C	C::94.12(64) Y::5.88(4)
P2	231	F	$\stackrel{\circ}{ m S}$	S::100.00(68)
			V	
P2	232	F		V::100.00(68)
P2	233	F	V	V::100.00(68)
P2	234	\mathbf{F}	\mathbf{R}	R::100.00(67)
P2	235	\mathbf{F}	\mathbf{R}	R::92.54(62) Q::5.97(4)
P2	236	\mathbf{F}	A	A::100.00(73)
P2	238	\mathbf{F}	P	P::100.00(72)
P2	239	\mathbf{F}	H	H::100.00(73)
P2	240	\mathbf{F}	\mathbf{C}	C::100.00(70)
P2	241	F	L	L::100.00(70)
P2	242	$\overline{\mathrm{F}}$	A	A::100.00(68)
P2	244	F	S	S::100.00(68)
P2	245	F	Y	* *
				Y::100.00(68)
P2	246	F	M	M::96.92(63)
P2	247	F	D	D::96.61(57)
P2	248	\mathbf{F}	D	D::96.61(57)
P2	249	F	V	V::96.49(55)
P2	250	\mathbf{F}	V	V::100.00(57)
P2	251	\mathbf{F}	${ m L}$	L::100.00(57)
P2	252	\mathbf{F}	G	G::96.55(56)
P2	253	\mathbf{F}	A	A:: $100.00(58)$
P2	254	F	K	K::100.00(52)
P2	255	F	S	S::100.00(52)
P2	256	F	V	V::100.00(52)
P2	257	F	Q	Q::98.00(49)
P2	258	F	H	H::100.00(50)
P2	259	\mathbf{F}	L	L::98.00(49)
P2	260	\mathbf{F}	${f E}$	E::100.00(50)
P2	261	F	S	S::100.00(45)
P2	262	\mathbf{F}	${ m L}$	L::100.00(45)
				,

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P2
            263
                         F
                                     Y
                                                          Y::57.78(26) F::42.22(19)
P2
            264
                         F
                                     \mathbf{T}
                                                          T::100.00(46)
                         F
P2
            265
                                     Α
                                                          A::77.78(35) S::22.22(10)
P2
                         F
                                     V
            266
                                                          V::100.00(45)
                         F
                                     \mathbf{T}
P2
            267
                                                          T::100.00(44)
                         F
P2
            268
                                     Ν
                                                          N::100.00(42)
P2
            270
                         F
                                     \mathbf{L}
                                                          L::100.00(47)
P2
                         F
            271
                                     \mathbf{L}
                                                          L::100.00(47)
P2
                         F
                                     S
            272
                                                          S::97.87(46)
P2
            273
                         F
                                     L
                                                          L::100.00(47)
P2
                         F
                                     G
            274
                                                          G::100.00(47)
P2
            275
                         F
                                     Ι
                                                          I::100.00(47)
P2
            276
                         F
                                     Η
                                                          H::100.00(49)
P2
            277
                         F
                                                          L::100.00(36)
                                     L
P2
                         F
            278
                                     Ν
                                                          N::100.00(25)
P2
            279
                         F
                                     Ρ
                                                          P::100.00(25)
                         F
P2
                                     Ν
            280
                                                          N::100.00(19)
P2
            281
                         F
                                     K
                                                          K::100.00(19)
                         F
P2
                                     \mathbf{T}
            282
                                                          T::100.00(19)
P2
                         F
            283
                                     K
                                                          K::100.00(21)
                         F
P2
            284
                                     R
                                                          R::100.00(21)
                         F
P2
            285
                                      W
                                                          W::100.00(26)
                         F
P2
            286
                                     G
                                                          G::96.00(24)
P2
            287
                         F
                                     Y
                                                          Y::100.00(25)
                         F
                                     S
P2
            288
                                                          S::100.00(25)
P2
            289
                         \mathbf{F}
                                     L
                                                          L::100.00(25)
P2
            290
                         F
                                     Ν
                                                          N::52.00(13) H::48.00(12)
P2
                         F
            292
                                     M
                                                          M::100.00(25)
P2
            293
                         F
                                     G
                                                          G::100.00(26)
P2
                         F
                                     Y
            294
                                                          Y::100.00(26)
P2
            295
                         \mathbf{F}
                                     V
                                                          V::100.00(26)
                         F
P2
            296
                                     Ι
                                                          I::100.00(26)
P2
            297
                        F
                                     G
                                                          G::100.00(30)
                        F
P2
            298
                                     \mathbf{C}
                                                          C::58.06(18) S::41.94(13)
                        F
                                                          H::51.61(16) W::41.94(13) Y::6.45(2)
P2
            299
                                     Η
                         F
P2
                                     G
            300
                                                          G::100.00(31)
                         F
                                     S
P2
            301
                                                          S::100.00(30)
P2
                         F
            302
                                     \mathbf{L}
                                                          L::100.00(30)
P2
            303
                         F
                                     Ρ
                                                          P::100.00(30)
P2
                         F
                                     Q
            304
                                                          Q::100.00(30)
                        F
P2
            305
                                     D
                                                          D::56.67(17) E::43.33(13)
P2
                        F
            306
                                     Η
                                                          H::100.00(35)
P2
                         F
            307
                                     Ι
                                                          I::100.00(35)
P2
            308
                         F
                                     Ι
                                                          I::62.86(22) R::37.14(13)
P2
                         F
                                     Q
                                                          Q::62.86(22) M::37.14(13)
            309
                         F
P2
            310
                                     Κ
                                                          K::100.00(37)
                        F
                                     Ι
P2
            311
                                                          I::100.00(37)
P2
            312
                        F
                                     Κ
                                                          K::100.00(36)
P2
                        F
                                                          E::61.76(21) D::38.24(13)
            313
                                     \mathbf{E}
P2
            314
                         \mathbf{F}
                                     \mathbf{C}
                                                          C::100.00(34)
                         \mathbf{F}
P2
                                     \mathbf{R}
                                                          R::97.37(37)
            316
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P2
             317
                          F
                                        Κ
                                                              K::100.00(44)
P2
                          F
                                        \mathbf{L}
             318
                                                              L::100.00(34)
                          F
P2
             319
                                        Ρ
                                                              P::100.00(32)
P2
                          F
                                        V
             320
                                                               V::100.00(32)
                          F
P2
             321
                                        Ν
                                                              N::100.00(32)
P2
                           F
                                        \mathbf{R}
             322
                                                              R::100.00(32)
P2
             323
                           F
                                        Ρ
                                                              P::100.00(32)
                           F
P2
             324
                                        Ι
                                                              I::100.00(31)
P2
                          F
                                        D
             325
                                                              D::100.00(31)
P2
             326
                           \mathbf{F}
                                        W
                                                               W::100.00(29)
P2
                          F
             327
                                        \mathbf{K}
                                                              K::100.00(29)
P2
             328
                          F
                                        V
                                                               V::100.00(29)
P2
             329
                          F
                                        \mathbf{C}
                                                              C::100.00(29)
P2
             330
                          F
                                        Q
                                                              Q::100.00(28)
P2
             331
                           \mathbf{F}
                                        \mathbf{R}
                                                              R::100.00(28)
P2
                          F
             332
                                        Ι
                                                              I::100.00(28)
                           \mathbf{F}
                                        V
P2
             333
                                                              V::100.00(28)
P2
             334
                          F
                                        G
                                                              G::100.00(28)
                          F
P2
                                        \mathbf{L}
             335
                                                              L::100.00(23)
P2
                           F
             336
                                        \mathbf{L}
                                                              L::100.00(26)
                           F
P2
             337
                                        G
                                                               G::100.00(26)
                           \mathbf{F}
P2
             339
                                        A
                                                               A::100.00(27)
                           F
P2
             340
                                        A
                                                              A::100.00(27)
P2
                           F
                                        Ρ
             341
                                                              P::100.00(28)
                                        \mathbf{T}
                           F
P2
             343
                                                              T::100.00(27)
P2
                          F
                                        Q
             344
                                                               Q::100.00(27)
P2
             345
                          F
                                        \mathbf{C}
                                                              C::100.00(27)
P2
                           F
                                        G
             346
                                                              G::92.59(25) E::7.41(2)
P2
             347
                           \mathbf{F}
                                        Y
                                                               Y::90.91(20) C::9.09(2)
P2
                          F
                                        Ρ
             348
                                                              P::100.00(22)
P2
             349
                          F
                                        Α
                                                              A::100.00(22)
                          F
P2
                                                              L::79.17(19) *::20.83(5)
             350
                                        \mathbf{L}
P2
                          F
             351
                                        Μ
                                                              M::100.00(24)
                          F
P2
             352
                                        Ρ
                                                              P::100.00(24)
                          F
P2
             353
                                        \mathbf{L}
                                                              L::100.00(24)
                           F
P2
                                        Y
             354
                                                               Y::100.00(19)
                           \mathbf{F}
P2
             355
                                        A
                                                               A::76.19(16) V::14.29(3) T::9.52(2)
P2
                           F
                                        \mathbf{C}
             356
                                                               C::90.48(19) Y::9.52(2)
P2
             357
                           \mathbf{F}
                                        Τ
                                                              T::85.71(18) I::14.29(3)
P2
                           F
                                        Q
             358
                                                               Q::100.00(21)
                          F
                                        \mathbf{S}
P2
             359
                                                              S::100.00(21)
P2
                          F
                                        K
             360
                                                              K::100.00(32)
P2
                          F
             361
                                        Q
                                                              Q::100.00(32)
P2
             362
                           F
                                        A
                                                               A::100.00(32)
P2
             364
                           \mathbf{F}
                                        \mathbf{T}
                                                               T::100.00(22)
                                        \mathbf{S}
P2
             366
                           \mathbf{F}
                                                              S::100.00(22)
                                        Ρ
                          F
P2
             367
                                                              P::100.00(22)
                                        \mathbf{T}
P2
             368
                          F
                                                              T::100.00(26)
P2
                          F
                                        Y
             369
                                                              Y::100.00(26)
P2
             370
                          F
                                        Κ
                                                              K::100.00(26)
                           \mathbf{F}
P2
                                        A
                                                               A::84.62(22) T::15.38(4)
             371
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P2	272	F	т	I100 00(26)
	373		L	L::100.00(26)
P2	374	F	С	C::100.00(26)
P2	375	\mathbf{F}	K	K::96.15(25)
P2	376	\mathbf{F}	Q	Q::100.00(26)
P2	377	\mathbf{F}	Y	Y::100.00(28)
P2	378	\mathbf{F}	${ m L}$	L::100.00(28)
P2	379	\mathbf{F}	N	N::96.43(27)
P2	380	\mathbf{F}	${ m L}$	L::100.00(28)
P2	381	\mathbf{F}	Y	Y::100.00(28)
P2	382	$\overline{\mathrm{F}}$	P	P::100.00(28)
P2	383	F	V	V::100.00(28)
P2	384	F	Å	A::100.00(25)
P2	385	F	R	` ,
				R::100.00(25)
P2	386	F	Q	Q::100.00(26)
P2	387	F	R	R::100.00(25)
P2	388	F	P	P::100.00(25)
P2	389	\mathbf{F}	G	G::100.00(28)
P2	390	\mathbf{F}	${ m L}$	L::100.00(28)
P2	391	\mathbf{F}	$^{\mathrm{C}}$	C::100.00(29)
P2	392	\mathbf{F}	${ m Q}$	Q::100.00(29)
P2	393	\mathbf{F}	V	V::72.41(21) M::27.59(8)
P2	395	\mathbf{F}	A	A::100.00(31)
P2	396	\mathbf{F}	D	D::100.00(31)
P2	397	\mathbf{F}	A	A::100.00(33)
P2	398	F	T	T::100.00(33)
P2	399	F	P	P::100.00(31)
P2	400	F	$\stackrel{1}{\mathrm{T}}$	* *
P2		F		T::100.00(31)
	401		G	G::74.19(23) S::25.81(8)
P2	402	F	W	W::100.00(32)
P2	403	F	G	G::100.00(32)
P2	404	F	L	L::100.00(28)
P2	405	\mathbf{F}	A	A::78.57(22) V::21.43(6)
P2	406	\mathbf{F}	I	I::75.86(22) M::24.14(7)
P2	407	\mathbf{F}	G	G::100.00(29)
P2	408	\mathbf{F}	H	H::100.00(29)
P2	409	\mathbf{F}	Q	Q::100.00(20)
P2	410	\mathbf{F}	\mathbf{R}	R::80.00(16) H::20.00(4)
P2	411	\mathbf{F}	\mathbf{M}	M::100.00(26)
P2	412	\mathbf{F}	\mathbf{R}	R::84.62(22) H::15.38(4)
P2	413	\mathbf{F}	G	G::85.71(24) K::14.29(4)
P2	414	F	$\overset{\circ}{\mathrm{T}}$	T::100.00(28)
P2	416	F	V	V::67.86(19) R::28.57(8)
P2	417	F		* /
			A	A::100.00(30)
P2	418	F	P	P::100.00(26)
P2	419	F	L	L::100.00(26)
P2	420	F	P	P::100.00(27)
P2	421	F	I	I::100.00(28)
P2	422	\mathbf{F}	Н	H::100.00(28)
P2	423	\mathbf{F}	${ m T}$	T::100.00(28)
P2	424	\mathbf{F}	A	A::92.86(26)
P2	425	\mathbf{F}	\mathbf{E}	E::85.71(24) K::14.29(4)

DO	100	T.	т	I 100 00/00)
P2	426	F	L	L::100.00(28)
P2	427	\mathbf{F}	L	L::100.00(26)
P2	428	\mathbf{F}	A	A::100.00(26)
P2	429	\mathbf{F}	A	A::80.77(21) T::19.23(5)
P2	430	\mathbf{F}	\mathbf{C}	C::96.15(25)
P2	432	\mathbf{F}	A	A::100.00(27)
P2	433	\mathbf{F}	\mathbf{R}	R::100.00(27)
P2	434	\mathbf{F}	\mathbf{S}	S::100.00(27)
P2	435	$ m_F$	$\tilde{\mathrm{R}}$	R::100.00(26)
P2	436	$^{\mathrm{r}}$	S	S::100.00(26)
P2	437	F	$\overset{ ext{S}}{ ext{G}}$	G::100.00(20)
P2	438	$^{ m F}$	A	A::100.00(22)
				` ,
P2	439	F	K	K::61.90(13) N::38.10(8)
P2	440	F	L	L::65.00(13) I::35.00(7)
P2	441	\mathbf{F}	I	I::65.00(13) L::35.00(7)
P2	442	\mathbf{F}	G	G::100.00(20)
P2	443	\mathbf{F}	${ m T}$	T::100.00(19)
P2	444	\mathbf{F}	D	D::100.00(19)
P2	445	${ m F}$	N	N::100.00(17)
P2	446	${ m F}$	\mathbf{S}	S::100.00(17)
P2	447	\mathbf{F}	V	V::100.00(17)
P2	448	$ m_F$	V	V::100.00(17)
P2	449	$^{\mathrm{r}}$	Ĺ	L::100.00(17)
P2	450	F	S	S::100.00(17)
P2				, ,
	451	F	R	R::100.00(17)
P2	452	F	K	K::100.00(17)
P2	453	F	Y	Y::100.00(17)
P2	454	F	\mathbf{T}	T::100.00(17)
P2	455	\mathbf{F}	\mathbf{S}	S::100.00(14)
P2	456	\mathbf{F}	\mathbf{F}	F::92.86(13) Y::7.14(1)
P2	457	\mathbf{F}	P	P::100.00(14)
P2	458	\mathbf{F}	W	W::100.00(8)
P2	459	\mathbf{F}	${ m L}$	L::100.00(8)
P2	460	${ m F}$	${ m L}$	L::100.00(15)
P2	461	\mathbf{F}	\mathbf{G}	G::100.00(15)
P2	462	$ m_F$	Č	C::100.00(15)
P2	463	F	Ä	A::100.00(16)
P2	464	$^{\mathrm{r}}$	A	A::100.00(16)
P2	465	F	N	N::100.00(10)
		F		
P2	466		W	W::53.33(8) *::46.67(7)
P2	467	F	I	I::100.00(15)
P2	468	\mathbf{F}	L	L::100.00(15)
P2	469	\mathbf{F}	${ m R}$	R::100.00(15)
P2	470	\mathbf{F}	G	G::100.00(15)
P2	471	\mathbf{F}	${ m T}$	T::100.00(15)
P2	472	\mathbf{F}	\mathbf{S}	S::100.00(15)
P2	474	\mathbf{F}	V	V::100.00(15)
P2	475	\mathbf{F}	Y	Y::100.00(15)
P2	476	\mathbf{F}	V	V::100.00(15)
P2	477	$ m_F$	P	P::100.00(15)
P2	478	$^{\mathrm{r}}$	S	S::100.00(15)
14	110	1	S	5100.00(10)

P2	479	\mathbf{F}	A	A::100.00(15)
P2	480	\mathbf{F}	${ m L}$	L::100.00(15)
P2	481	\mathbf{F}	N	N::100.00(15)
P2	482	\mathbf{F}	Р	P::100.00(14)
P2	483	F	A	A::100.00(14)
P2	484	F	D	D::100.00(14)
P2	485	\mathbf{F}	D	D::100.00(14)
P2	486	$\overline{\mathrm{F}}$	P	P::100.00(14)
P2	487	$\overline{\mathrm{F}}$	S	S::100.00(14)
P2	488	F	$\overset{\sim}{ m R}$	R::92.86(13) Q::7.14(1)
P2	489	F	G	S::50.00(7) G::50.00(7)
P2	490	F	R	R::53.33(8) H::46.67(7)
P2	491	F	L	L::100.00(15)
P2	492	F	K	K::53.33(8) G::46.67(7)
P2	493	F	L	L::76.47(13) I::23.53(4)
P2	494	F	S	S::80.00(16) Y::20.00(4)
P2	494	F	R	
P2	496	F	n P	R::100.00(22)
		F	L	P::100.00(22)
P2	497	$^{ m F}$	$^{ m L}$	L::100.00(23)
P2	498			L::100.00(22)
P2	499	F	R	R::63.64(14) H::31.82(7)
P2	500	F	L	L::100.00(22)
P2	501	F	P	P::100.00(22)
P2	503	F	R	R::54.55(12) Q::45.45(10)
P2	504	F	P	P::100.00(22)
P2	505	F	T	T::100.00(22)
P2	506	F	$_{\widetilde{\alpha}}$	T::100.00(18)
P2	507	F	G	G::88.89(16) K::11.11(2)
P2	508	F	R	R::100.00(18)
P2	509	F	$_{\tilde{a}}$	T::100.00(22)
P2	510	F	S	S::100.00(23)
P2	511	F	L	L::100.00(23)
P2	512	\mathbf{F}	Y	Y::100.00(23)
P2	513	\mathbf{F}	A	A::100.00(23)
P2	514	\mathbf{F}	D	D::57.14(12) V::42.86(9)
P2	515	\mathbf{F}	\mathbf{S}	S::100.00(21)
P2	516	\mathbf{F}	Р	P::100.00(21)
P2	517	\mathbf{F}	\mathbf{S}	S::100.00(21)
P2	518	\mathbf{F}	V	V::100.00(21)
P2	519	\mathbf{F}	Р	P::100.00(20)
P2	520	\mathbf{F}	\mathbf{S}	S::100.00(20)
P2	521	\mathbf{F}	${ m H}$	H::100.00(20)
P2	522	\mathbf{F}	${ m L}$	L::100.00(20)
P2	523	\mathbf{F}	Р	P::100.00(20)
P2	524	F	D	D::100.00(20)
P2	525	\mathbf{F}	R	R::100.00(20)
P2	526	\mathbf{F}	V	V::100.00(19)
P2	527	\mathbf{F}	${ m H}$	H::100.00(30)
P2	529	\mathbf{F}	A	A::100.00(30)
P2	530	\mathbf{F}	\mathbf{S}	S::100.00(30)
P2	531	F	P	P::100.00(30)
				` '

P2	532	\mathbf{F}	${ m L}$	L::100.00(30)
P2	533	\mathbf{F}	Η	H::100.00(44)
P2	534	\mathbf{F}	V	V::100.00(74)
P2	535	\mathbf{F}	A	A::100.00(77)
P2	536	\mathbf{F}	\mathbf{W}	W::100.00(79)
P2	537	\mathbf{F}	${ m R}$	R::98.78(81)
P2	538	F	P	P::100.00(82)
S2	1	F	S	S::100.00(12)
S2	2	F	T	T::100.00(12)
S2	3	F	T	T::100.00(12)
S2	5	F	Н	H::100.00(12)
S2	6	F	Q	Q::100.00(12)
S2	7	F	T	T::100.00(12)
S2	8	F	L	L::100.00(12)
S2	9	F	\mathbf{Q}	Q::100.00(16)
S2	10	\mathbf{F}	D	D::100.00(19)
S2	11	\mathbf{F}	P	P::100.00(19)
S2	12	\mathbf{F}	\mathbf{R}	R::100.00(22)
S2	13	\mathbf{F}	V	V::100.00(22)
S2	14	\mathbf{F}	\mathbf{R}	R::90.91(20) K::9.09(2)
S2	15	\mathbf{F}	G	G::100.00(22)
S2	16	\mathbf{F}	${ m L}$	L::100.00(22)
S2	17	\mathbf{F}	Y	Y::100.00(22)
S2	18	\mathbf{F}	${ m L}$	L::90.91(20) F::9.09(2)
S2	19	\mathbf{F}	P	P::100.00(22)
S2	20	\mathbf{F}	\mathbf{A}	A::100.00(22)
S2	21	\mathbf{F}	\mathbf{G}	G::100.00(22)
S2	22	F	\mathbf{G}	G::100.00(22)
$\tilde{S}2$	23	$^{-}$	S	S::100.00(24)
$\tilde{S2}$	$\frac{23}{24}$	F	$\overset{\sim}{ ext{S}}$	S::100.00(24)
S2	25	F	$\overset{\circ}{\mathrm{S}}$	S::100.00(24)
S2	26	F	$\overset{\circ}{ ext{G}}$	G::100.00(24)
S2	27	F	$\overset{\circlearrowleft}{\mathrm{T}}$	T::100.00(24)
S2	28	F	V	V::100.00(24)
S2	29	F	N	N::100.00(21)
S2	30	F	P	P::100.00(20)
S2	31	F	V	V::100.00(22)
S2	$\frac{31}{32}$	F	P P	P::100.00(22)
S2	33	F	T	T::100.00(22)
S2	34	F	T	T::100.00(26)
S2 S2	$\frac{34}{35}$	F	V	V::80.77(21) A::19.23(5)
S2 S2	36		s S	· · · · · · · · · · · · · · · · · · ·
		F		S::100.00(28)
S2	37	F	H	H::80.00(20) L::20.00(5)
S2	38	F	T	T::80.00(20) I::20.00(5)
S2	39	F	S	S::100.00(25)
S2	40	F	S	S::100.00(28)
S2	41	F	I	I::100.00(28)
S2	43	F	S	S::100.00(24)
S2	44	F	\mathbf{R}	R::100.00(26)
S2	45	F	I	I::100.00(26)
S2	46	F	G	G::100.00(26)

CO	47	T.)	D	D 100 00(0c)
S2	47	F	D	D::100.00(26)
S2	48	F	P	P::100.00(23)
S2	49	\mathbf{F}	A	A::100.00(23)
S2	50	F	R	R::73.91(17) P::26.09(6)
S2	51	\mathbf{F}	N	N::91.30(21) S::8.70(2)
S2	52	\mathbf{F}	\mathbf{M}	M::100.00(23)
S2	53	\mathbf{F}	${ m E}$	E::82.61(19) K::17.39(4)
S2	54	\mathbf{F}	N	N::73.91(17) S::26.09(6)
S2	55	\mathbf{F}	I	I::100.00(23)
S2	56	\mathbf{F}	${ m T}$	T::100.00(23)
S2	57	$\overline{\mathrm{F}}$	$\bar{\mathrm{S}}$	S::100.00(23)
$\tilde{S}2$	58	F	$\widetilde{\mathrm{G}}$	G::90.00(18) R::10.00(2)
S2	59	F	L	L::55.56(10) F::44.44(8)
S2	60	F	L	L::100.00(17)
S2	61	F	G	` '
				G::77.78(14) R::22.22(4)
S2	62	F	P	P::100.00(18)
S2	63	F	L	L::100.00(18)
S2	64	F	\mathbf{L}	L::100.00(18)
S2	65	\mathbf{F}	V	V::100.00(24)
S2	66	\mathbf{F}	\mathbf{L}	L::100.00(26)
S2	67	\mathbf{F}	Q	Q::77.78(21) P::22.22(6)
S2	68	F	A	A::100.00(27)
S2	69	\mathbf{F}	G	G::100.00(29)
S2	72	\mathbf{F}	${ m L}$	L::100.00(27)
S2	73	\mathbf{F}	${ m L}$	L::100.00(28)
S2	74	\mathbf{F}	${ m T}$	T::100.00(28)
S2	75	F	${ m R}$	R::50.00(14) K::50.00(14)
S2	76	$\overline{\mathrm{F}}$	I	I::100.00(27)
S2	77	F	L	L::100.00(27)
S2	78	F	T	T::100.00(27)
S2	79	F	Ī	I::100.00(27)
S2	80	F	P	* *
		F		P::100.00(26)
S2	81		Q	Q::100.00(26)
S2	82	F	S	S::100.00(28)
S2	83	F	L	L::100.00(24)
S2	84	F	D	D::100.00(26)
S2	85	F	S	S::100.00(26)
S2	86	F	W	W::100.00(26)
S2	87	\mathbf{F}	\mathbf{W}	W::100.00(26)
S2	88	\mathbf{F}	${ m T}$	T::100.00(26)
S2	89	\mathbf{F}	\mathbf{S}	S::100.00(23)
S2	90	F	${ m L}$	L::100.00(23)
S2	91	\mathbf{F}	N	N::100.00(23)
S2	93	\mathbf{F}	L	L::100.00(24)
S2	94	F	G	G::100.00(32)
S2	95	F	$\overset{\circ}{\mathrm{G}}$	G::100.00(38)
S2	96	F	A	A::52.63(20) T::47.37(18)
S2	97	F	P	P::52.63(20) T::47.37(18)
S2 S2	98	F	V	V::100.00(40)
			v C	` /
S2	99	F		C::100.00(42)
S2	100	\mathbf{F}	R	R::88.10(37) P::9.52(4)

S2	101	\mathbf{F}	G	G::100.00(43)
S2	102	\mathbf{F}	Q	Q::100.00(44)
S2	103	F	N	N::95.56(43)
S2	103	F	S	S::100.00(46)
S2	105	F	Q	Q::100.00(46)
S2	106	\mathbf{F}	\mathbf{S}	S::100.00(46)
S2	107	\mathbf{F}	P	P::100.00(43)
S2	108	\mathbf{F}	${ m T}$	T::100.00(43)
S2	109	\mathbf{F}	\mathbf{S}	S::100.00(41)
S2	110	\mathbf{F}	N	N::56.10(23) S::43.90(18)
S2	111	\mathbf{F}	Н	H::100.00(40)
S2	112	F	$\overline{\mathbf{S}}$	S::100.00(40)
S2	113	F	P	P::90.00(36) L::10.00(4)
S2	114	F	${ m T}$	
				T::100.00(40)
S2	115	F	S	S::100.00(38)
S2	116	F	$^{\mathrm{C}}$	C::100.00(47)
S2	117	\mathbf{F}	P	P::100.00(48)
S2	118	\mathbf{F}	P	P::100.00(46)
S2	119	\mathbf{F}	I	I::56.52(26) T::43.48(20)
S2	120	\mathbf{F}	$^{\mathrm{C}}$	C::100.00(46)
S2	121	\mathbf{F}	P	P::100.00(46)
S2	122	\mathbf{F}	G	G::100.00(45)
S2	123	\mathbf{F}	Y	Y::100.00(49)
S2	124	$\overline{\mathrm{F}}$	R	R::100.00(50)
S2	125	F	W	W::92.00(46) *::8.00(4)
S2	126	F	$^{ m W}$	M::100.00(60)
S2		F	C	
	127			C::68.33(41) *::31.67(19)
S2	128	F	L	L::100.00(61)
S2	129	F	R	R::96.83(61)
S2	130	F	R	R::100.00(62)
S2	132	\mathbf{F}	I	I::100.00(63)
S2	133	\mathbf{F}	I	I::100.00(63)
S2	135	\mathbf{F}	${ m L}$	L::100.00(62)
S2	137	\mathbf{F}	I	I::100.00(67)
S2	138	\mathbf{F}	${ m L}$	L::100.00(67)
S2	139	\mathbf{F}	${ m L}$	L::100.00(66)
S2	140	\mathbf{F}	${ m L}$	L::100.00(65)
S2	141	\mathbf{F}	\mathbf{C}	C::100.00(63)
S2	142	$\overline{\mathrm{F}}$	Ĺ	L::100.00(63)
S2	143	F	I	I::100.00(53)
S2	145	F	L	L::100.00(52)
		F	L	
S2	146			L::100.00(50)
S2	147	F	V	V::100.00(52)
S2	148	F	L	L::98.00(49)
S2	149	F	L	L::100.00(49)
S2	150	F	D	D::100.00(49)
S2	151	\mathbf{F}	Y	Y::100.00(49)
S2	152	F	Q	Q::100.00(46)
S2	153	\mathbf{F}	G	G::100.00(46)
S2	154	\mathbf{F}	${ m M}$	M::100.00(51)
S2	155	\mathbf{F}	${f L}$	L::100.00(51)
				\ /

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S2
             156
                          F
                                       Ρ
                                                              P::100.00(51)
S2
                          F
                                       V
             157
                                                              V::100.00(51)
                          F
                                       \mathbf{C}
S2
                                                              C::100.00(50)
             158
S2
                          F
                                       Ρ
             159
                                                              P::100.00(50)
                          \mathbf{F}
S2
             160
                                       \mathbf{L}
                                                              L::58.00(29) P::40.00(20)
                          F
S2
             161
                                       Ι
                                                              I::52.94(27) L::39.22(20) V::7.84(4)
S2
             162
                          F
                                       Ρ
                                                              P::98.15(53)
S2
                          \mathbf{F}
                                       G
             163
                                                              G::100.00(60)
S2
                          F
                                       S
             164
                                                              S::100.00(49)
S2
                          F
                                       S
                                                              S::100.00(50)
             165
                                       \mathbf{T}
S2
                          F
                                                              T::100.00(50)
             166
                                       Τ
S2
             167
                          F
                                                              T::100.00(50)
S2
                          F
                                       \mathbf{S}
             168
                                                              S::100.00(50)
S2
             169
                          \mathbf{F}
                                       \mathbf{T}
                                                              T::100.00(50)
S2
                          \mathbf{F}
             170
                                       G
                                                              G::100.00(50)
S2
                          F
                                       Ρ
             171
                                                              P::100.00(49)
                          \mathbf{F}
                                       С
S2
             172
                                                              C::100.00(46)
S2
             173
                          F
                                       \mathbf{R}
                                                              R::100.00(43)
                          F
S2
                                       \mathbf{T}
                                                              T::100.00(47)
             174
S2
                          F
                                       \mathbf{C}
             175
                                                              C::100.00(47)
                          F
                                       \mathbf{T}
                                                              T::100.00(35)
S2
             176
                          F
                                       Т
S2
            177
                                                             T::100.00(35)
S2
                          F
                                       Ρ
            178
                                                             P::54.29(19) L::45.71(16)
S2
                          F
                                       Α
            179
                                                             A::100.00(36)
S2
                          F
            180
                                       Q
                                                             Q::100.00(40)
S2
                          F
                                       G
                                                             G::100.00(37)
            181
S2
            182
                          F
                                       Τ
                                                             T::100.00(36)
S2
                          F
                                       S
            183
                                                             S::100.00(36)
S2
            184
                          F
                                       Μ
                                                             M::88.89(32) I::11.11(4)
S2
                          F
                                       Y
                                                             Y::45.45(15) F::39.39(13) K::15.15(5)
            185
S2
                          \mathbf{F}
                                       Ρ
                                                             P::84.85(28) H::15.15(5)
            186
S2
                          \mathbf{F}
                                       S
            187
                                                             S::96.88(31)
S2
                          F
                                       \mathbf{C}
                                                             C::100.00(32)
            188
                          \mathbf{F}
                                       С
S2
                                                             C::100.00(33)
            189
S2
                          F
                                       С
            190
                                                             C::100.00(33)
                                       Т
S2
                          \mathbf{F}
                                                             S::47.22(17) T::41.67(15) I::11.11(4)
            191
S2
                          F
            192
                                       K
                                                             K::94.44(34) E::5.56(2)
S2
                          F
                                       Ρ
            193
                                                             P::100.00(38)
S2
            194
                          F
                                       S
                                                             S::100.00(38)
S2
                          F
                                       D
            195
                                                             D::100.00(36)
                          F
                                       G
S2
            196
                                                             G::100.00(36)
S2
                          F
            197
                                       Ν
                                                             N::100.00(35)
S2
                          F
                                       С
            198
                                                             C::100.00(41)
S2
            199
                          F
                                       Τ
                                                             T::100.00(41)
S2
            200
                          F
                                       \mathbf{C}
                                                             C::100.00(43)
S2
            201
                          \mathbf{F}
                                       Ι
                                                             I::100.00(45)
S2
                          F
                                       Р
            202
                                                             P::100.00(44)
S2
            203
                          F
                                       Ι
                                                             I::100.00(42)
S2
                          F
                                       Ρ
            204
                                                             P::100.00(40)
S2
            205
                          F
                                       S
                                                             S::100.00(42)
S2
                          F
                                       S
                                                             S::100.00(43)
            206
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S2	207	\mathbf{F}	W	W::95.35(41)
S2	208	\mathbf{F}	A	A::100.00(44)
S2	210	\mathbf{F}	G	G::95.00(38) K::5.00(2)
S2	211	F	K	K::100.00(40)
S2	213	F	L	L::100.00(38)
S2	214	F	W	
				W::94.74(36) *::5.26(2)
S2	215	F	E	E::94.74(36) K::5.26(2)
S2	216	\mathbf{F}	W	W::94.87(37) *::5.13(2)
S2	217	\mathbf{F}	A	A::100.00(41)
S2	218	\mathbf{F}	S	S::100.00(41)
S2	219	\mathbf{F}	A	A::100.00(53)
S2	220	\mathbf{F}	\mathbf{R}	R::100.00(53)
S2	222	\mathbf{F}	\mathbf{S}	S::100.00(51)
S2	223	F	W	W::91.84(45) *::8.16(4)
$\tilde{S}2$	$\frac{224}{224}$	F	L	L::100.00(49)
S2	$\frac{224}{225}$	F	S	S::100.00(49)
			L	
S2	226	F		L::100.00(49)
S2	227	F	L	L::100.00(49)
S2	228	F	V	V::100.00(56)
S2	229	\mathbf{F}	Р	P::100.00(60)
S2	231	F	V	V::94.12(64) I::5.88(4)
S2	232	\mathbf{F}	Q	Q::100.00(68)
S2	233	\mathbf{F}	W	W::92.65(63) *::5.88(4)
S2	235	\mathbf{F}	V	V::86.57(58) A::13.43(9)
S2	236	\mathbf{F}	G	G::92.75(64) K::5.80(4)
S2	237	F	${f L}$	L::100.00(73)
S2	238	$\overline{\mathrm{F}}$	$\overline{\mathrm{S}}$	S::100.00(73)
S2	239	F	P	P::100.00(72)
S2	240	F	${ m T}$	T::100.00(72)
S2	241	F	V	V::100.00(72)
S2	$\frac{241}{242}$	F	W	
				W::94.12(64) *::5.88(4)
S2	243	F	L	L::89.71(61) P::10.29(7)
S2	244	F	S	S::79.41(54) L::19.12(13)
S2	245	F	V	V::89.71(61) A::10.29(7)
S2	246	F	I	I::91.18(62) T::8.82(6)
S2	247	\mathbf{F}	W	W::96.92(63)
S2	248	\mathbf{F}	${ m M}$	M::96.61(57)
S2	249	\mathbf{F}	${ m M}$	M::96.55(56)
S2	250	\mathbf{F}	W	W::96.49(55)
S2	251	\mathbf{F}	Y	Y::71.93(41) F::28.07(16)
S2	252	F	W	W::96.49(55)
S2	253	F	G	G::96.55(56)
S2	254	F	P	P::90.74(49) R::9.26(5)
S2	255	F	S	S::100.00(52)
S2	$\frac{256}{256}$	F	L	L::100.00(52)
S2	257	F	Y	Y::100.00(52)
S2	258	F	N	N::52.00(26) S::48.00(24)
S2	259	F	I	I::100.00(50)
S2	260	F	L	L::98.00(49)
S2	261	\mathbf{F}	\mathbf{S}	S::100.00(50)
S2	262	\mathbf{F}	Р	P::100.00(45)

CO	2004	T.	т	L. F7 70(96) L. 49 99(10)
S2	264	F	I	I::57.78(26) L::42.22(19)
S2	265	F	P	P::100.00(45)
S2	266	F	${ m L}$	L::100.00(45)
S2	267	\mathbf{F}	${ m L}$	L::100.00(45)
S2	268	\mathbf{F}	P	P::100.00(33)
S2	269	\mathbf{F}	I	I::100.00(43)
S2	272	F	\mathbf{C}	C::100.00(47)
S2	273	$^{-}$	Ĺ	L::97.87(46)
S2	274	F	W	W::100.00(47)
S2	275	F	V	V::61.70(29) A::38.30(18)
				` / /
S2	276	F	Y	Y::100.00(47)
X	1	\mathbf{F}	${ m M}$	M::100.00(8)
X	2	F	A	A::100.00(8)
X	3	F	A	A::100.00(8)
X	4	F	R	R::100.00(15)
X	5	F	L	L::100.00(15)
X	6	F	C	
				C::100.00(13)
X	7	F	C	C::100.00(16)
X	8	F	Q	Q::100.00(13)
X	9	\mathbf{F}	${ m L}$	L::100.00(15)
X	10	\mathbf{F}	D	D::53.33(8) N::46.67(7)
X	11	\mathbf{F}	P	P::100.00(15)
X	12	\mathbf{F}	A	A::100.00(15)
X	13	F	\mathbf{R}	R::100.00(15)
X	14	F	D	D::100.00(15)
X	15	$^{-}$	V	V::100.00(15)
X	16	F	L L	L::100.00(15)
X	17	F	C	C::100.00(15)
X	18	F	L	· ,
				L::100.00(15)
X	19	F	R	R::100.00(15)
X	20	F	P	P::100.00(15)
X	21	F	V	V::100.00(15)
X	22	F	G	G::73.33(11) S::26.67(4)
X	23	F	A	A::93.33(14) T::6.67(1)
X	24	F	\mathbf{E}	E::93.33(14) K::6.67(1)
X	25	\mathbf{F}	\mathbf{S}	S::100.00(14)
X	26	\mathbf{F}	\mathbf{C}	C::100.00(14)
X	27	\mathbf{F}	G	G::92.86(13) R::7.14(1)
X	28	\mathbf{F}	R	R::100.00(14)
X	29	F	P	P::100.00(14)
X	30	\mathbf{F}	\mathbf{F}	F::71.43(10) V::28.57(4)
X	31	F	S	S::100.00(14)
X	32	F	$\overset{\circ}{\mathrm{G}}$	E::50.00(7) G::42.86(6) R::7.14(1)
X	33	F	P	P::73.33(11) S::26.67(4)
X	34	F	L	L::100.00(15)
				· /
X	35	F	E	G::46.67(7) E::46.67(7) K::6.67(1)
X	36	F	$^{\mathrm{T}}$	T::76.47(13) D::17.65(3) N::5.88(1)
X	37	F	L	L::100.00(20)
X	38	F	S	S::100.00(22)
X	39	F	\mathbf{S}	S::100.00(22)
X	40	F	P	P::100.00(23)

X	41	\mathbf{F}	\mathbf{S}	S::100.00(22)
X	42	\mathbf{F}	P	P::95.45(21)
		F		, ,
X	43		S	S::100.00(22)
X	44	F	A	A::100.00(22)
X	45	\mathbf{F}	V	V::91.67(22) I::8.33(2)
X	46	\mathbf{F}	\mathbf{S}	S::72.73(16) P::27.27(6)
X	47	\mathbf{F}	${ m T}$	T::72.73(16) A::27.27(6)
X	48	\mathbf{F}	D	D::81.82(18) N::18.18(4)
X	49	${ m F}$	H	H::100.00(22)
X	50	F	G	G::88.89(16) E::11.11(2)
X	51	F	A	A::100.00(18)
X	52	F	Н	H::100.00(22)
X	53	\mathbf{F}	${ m L}$	L::100.00(23)
X	54	\mathbf{F}	\mathbf{S}	S::100.00(23)
X	55	\mathbf{F}	${ m L}$	L::100.00(21)
X	56	\mathbf{F}	\mathbf{R}	R::100.00(23)
X	57	\mathbf{F}	G	G::90.48(19) S::9.52(2)
X	58	F	L	L::100.00(21)
		F	P	
X	59			P::100.00(21)
X	60	F	V	V::100.00(21)
X	61	F	\mathbf{C}	C::100.00(21)
X	62	\mathbf{F}	A	A::65.00(13) T::35.00(7)
X	64	\mathbf{F}	\mathbf{S}	S::100.00(20)
X	65	\mathbf{F}	\mathbf{S}	S::100.00(20)
X	66	\mathbf{F}	A	A::100.00(20)
X	67	${ m F}$	G	G::95.00(19) R::5.00(1)
X	68	F	P	P::100.00(20)
				` ,
X	69 70	F	\mathbf{C}	C::100.00(20)
X	70	F	A	A::100.00(30)
X	71	F	${ m L}$	L::100.00(30)
X	72	\mathbf{F}	\mathbf{R}	R::100.00(30)
X	74	\mathbf{F}	${ m T}$	T::100.00(30)
X	75	\mathbf{F}	\mathbf{S}	S::100.00(30)
X	76	\mathbf{F}	A	A::100.00(32)
X	77	${ m F}$	R	R::100.00(72)
X	78	F	R	R::100.00(75)
X	79	F	M	M::100.00(79)
				` '
X	80	F	E	E::100.00(82)
X	81	F	${ m T}$	T::100.00(82)
X	82	\mathbf{F}	${ m T}$	T::100.00(82)
X	83	\mathbf{F}	V	V::100.00(80)
X	84	\mathbf{F}	N	N::100.00(80)
X	85	\mathbf{F}	A	A::98.75(79)
X	86	\mathbf{F}	Н	H::98.67(74)
X	87	F	Q	Q::100.00(74)
X	88	F	I I	I::54.79(40) F::43.84(32)
X	89	F	L	L::100.00(73)
X	90	F	P	P::100.00(75)
X	91	\mathbf{F}	K	K::100.00(75)
X	92	\mathbf{F}	V	V::100.00(75)
X	93	F	${f L}$	L::100.00(75)

```
Χ
             94
                           F
                                        Η
                                                              H::100.00(79)
Х
             95
                           F
                                        Κ
                                                              K::100.00(76)
                           F
Χ
             96
                                        R
                                                              R::100.00(76)
X
                           F
                                        Τ
             97
                                                              T::100.00(76)
                           \mathbf{F}
X
             98
                                        L
                                                              L::98.68(75)
X
                           F
             99
                                        G
                                                              G::100.00(97)
X
             100
                           F
                                        \mathbf{L}
                                                              L::100.00(97)
X
             101
                           \mathbf{F}
                                        S
                                                              S::100.00(95)
X
                           F
             102
                                        Α
                                                              A::53.19(50) V::40.43(38) T::6.38(6)
X
             103
                           F
                                        Μ
                                                              M::100.00(96)
X
                           \mathbf{F}
                                        S
             104
                                                              S::100.00(97)
Χ
             105
                           \mathbf{F}
                                        Τ
                                                              T::100.00(98)
Χ
                           F
                                        Т
             106
                                                              T::100.00(97)
Х
             107
                           \mathbf{F}
                                        D
                                                              D::98.97(96)
Χ
             108
                           \mathbf{F}
                                        \mathbf{L}
                                                              L::100.00(97)
Χ
                           F
                                        Ε
             109
                                                              E::100.00(99)
Χ
                           \mathbf{F}
             110
                                        Α
                                                              A::100.00(100)
Х
             111
                           F
                                        Y
                                                              Y::100.00(108)
                           F
Х
                                        Κ
             113
                                                              K::99.07(107)
X
                           F
             114
                                        D
                                                              D::99.07(107)
X
                           F
             115
                                        \mathbf{C}
                                                              C::94.50(103) Y::5.50(6)
X
                           \mathbf{F}
                                        L
                                                              L::100.00(111)
             116
X
                           F
             118
                                        Κ
                                                              K::100.00(110)
X
                           F
                                        D
             119
                                                              D::54.55(60) E::45.45(50)
X
                           F
                                        W
                                                              W::100.00(102)
             120
X
                           F
                                        Ε
             121
                                                              E::100.00(99)
X
             122
                           F
                                        \mathbf{E}
                                                              E::97.98(97)
X
                           F
             123
                                        \mathbf{L}
                                                              L::53.54(53) S::45.45(45)
Χ
             124
                           F
                                        G
                                                              G::100.00(99)
Х
                           F
                                        Ε
             125
                                                              E::100.00(98)
Х
             126
                           \mathbf{F}
                                        \mathbf{E}
                                                              E::100.00(55)
Χ
                           \mathbf{F}
                                        Ι
             127
                                                              I::93.48(43) T::6.52(3)
Χ
                           F
                                        R
             128
                                                              R::84.78(39) K::15.22(7)
                           \mathbf{F}
Χ
             129
                                        \mathbf{L}
                                                              L::100.00(46)
Х
                           F
             130
                                        \mathbf{R}
                                                              R::55.56(25) M::37.78(17) I::6.67(3)
Х
                           \mathbf{F}
                                                              L::55.56(25) I::44.44(20)
             131
                                        L
X
                           F
                                        V
             133
                                                              V::100.00(47)
X
                           F
             134
                                        L
                                                              L::100.00(47)
X
             135
                           F
                                        G
                                                              G::86.54(45) R::13.46(7)
X
                           F
                                        G
             136
                                                              G::100.00(54)
                           F
                                        С
                                                              C::100.00(54)
X
             137
X
                           F
             138
                                        R
                                                              R::98.15(53)
X
                           F
             139
                                        Η
                                                              H::100.00(61)
X
             140
                           F
                                        K
                                                              K::100.00(62)
X
                           \mathbf{F}
             141
                                        \mathbf{L}
                                                              L::100.00(62)
Χ
             142
                           \mathbf{F}
                                        V
                                                               V::100.00(66)
Х
                           F
                                        С
             143
                                                               C::100.00(66)
Х
             144
                           F
                                        Α
                                                              A::100.00(66)
Χ
                           F
                                        Ρ
             145
                                                              P::96.97(64)
Χ
             146
                           \mathbf{F}
                                        Α
                                                              A::100.00(66)
                           \mathbf{F}
                                        Ρ
Χ
                                                              P::100.00(73)
             147
```

X	148	\mathbf{F}	\mathbf{C}	C::100.00(64)
X	149	F	N	N::100.00(49)
X	152	\mathbf{F}	${ m T}$	T::100.00(57)
X	153	F	S	S::100.00(59)
\overline{C}	1	F	M	M::100.00(69)
\mathbf{C}	2	\mathbf{F}	D	D::100.00(69)
\mathbf{C}	3	\mathbf{F}	I	I::98.48(65)
\mathbf{C}	4	\mathbf{F}	D	D::100.00(66)
\mathbf{C}	5	\mathbf{F}	P	P::100.00(66)
\mathbf{C}	6	\mathbf{F}	Y	Y::100.00(62)
\mathbf{C}	7	\mathbf{F}	K	K::100.00(65)
\mathbf{C}	8	\mathbf{F}	\mathbf{E}	E::100.00(66)
\mathbf{C}	10	\mathbf{F}	G	G::100.00(76)
\mathbf{C}	11	\mathbf{F}	A	A::100.00(77)
\mathbf{C}	12	\mathbf{F}	${ m T}$	T::65.33(49) S::34.67(26)
\mathbf{C}	13	\mathbf{F}	V	V::100.00(79)
\mathbf{C}	14	\mathbf{F}	\mathbf{E}	E::100.00(77)
\mathbf{C}	15	\mathbf{F}	\mathbf{L}	L::100.00(75)
\mathbf{C}	16	\mathbf{F}	${ m L}$	L::100.00(76)
\mathbf{C}	17	F	\mathbf{S}	S::100.00(76)
\mathbf{C}	19	F	${ m L}$	L::100.00(80)
\mathbf{C}	20	F	P	P::100.00(77)
\mathbf{C}	21	\mathbf{F}	\mathbf{S}	S::100.00(75)
\mathbf{C}	22	\mathbf{F}	D	D::100.00(75)
\mathbf{C}	25	\mathbf{F}	P	P::100.00(69)
\mathbf{C}	26	\mathbf{F}	\mathbf{S}	S::100.00(67)
\mathbf{C}	27	\mathbf{F}	V	V::100.00(70)
\mathbf{C}	28	\mathbf{F}	${ m R}$	R::100.00(64)
\mathbf{C}	29	\mathbf{F}	D	D::98.44(63)
\mathbf{C}	30	\mathbf{F}	\mathbf{L}	L::100.00(64)
\mathbf{C}	31	\mathbf{F}	\mathbf{L}	L::80.70(46) Q::19.30(11)
\mathbf{C}	32	\mathbf{F}	D	D::100.00(57)
\mathbf{C}	33	\mathbf{F}	${ m T}$	T::100.00(54)
\mathbf{C}	34	\mathbf{F}	\mathbf{A}	A::100.00(56)
\mathbf{C}	35	\mathbf{F}	S	S::100.00(56)
\mathbf{C}	36	\mathbf{F}	\mathbf{A}	A::100.00(57)
\mathbf{C}	37	\mathbf{F}	${ m L}$	L::100.00(56)
\mathbf{C}	38	\mathbf{F}	Y	Y::100.00(51)
\mathbf{C}	39	\mathbf{F}	\mathbf{R}	R::98.04(50)
$^{\mathrm{C}}$	40	\mathbf{F}	\mathbf{E}	E::86.54(45) D::13.46(7)
$^{\mathrm{C}}$	41	\mathbf{F}	A	A::100.00(52)
$^{\mathrm{C}}$	42	\mathbf{F}	L	L::100.00(52)
\mathbf{C}	43	F	\mathbf{E}	E::100.00(53)
$^{\mathrm{C}}$	44	\mathbf{F}	\mathbf{S}	S::98.11(52)
$^{\mathrm{C}}$	45	\mathbf{F}	P	P::100.00(55)
\mathbf{C}	46	F	${ m E}$	E::100.00(51)
\mathbf{C}	47	\mathbf{F}	Н	H::100.00(50)
\mathbf{C}	48	F	$^{\mathrm{C}}$	C::100.00(47)
\mathbf{C}	49	F	${ m T}$	T::82.98(39) S::17.02(8)
\mathbf{C}	50	F	Р	P::100.00(47)
\mathbf{C}	51	\mathbf{F}	H	H::100.00(47)

С	52	\mathbf{F}	${ m H}$	H::100.00(47)
$\overset{\circ}{\mathrm{C}}$	53	F	$^{\mathrm{T}}$	T::100.00(54)
				` ,
\mathbf{C}	54	F	A	A::100.00(54)
$^{\mathrm{C}}$	55	\mathbf{F}	${ m L}$	L::100.00(51)
\mathbf{C}	56	\mathbf{F}	\mathbf{R}	R::100.00(51)
\mathbf{C}	57	\mathbf{F}	Q	Q::100.00(51)
C	58	F	Å	A::100.00(45)
$\stackrel{ ext{C}}{ ext{C}}$	59	F	I	I::100.00(45)
\mathbf{C}	60	F	L	L::94.59(35) F::5.41(2)
\mathbf{C}	61	\mathbf{F}	\mathbf{C}	C::100.00(37)
\mathbf{C}	62	\mathbf{F}	W	W::100.00(34)
\mathbf{C}	63	\mathbf{F}	\mathbf{G}	G::100.00(34)
\mathbf{C}	64	\mathbf{F}	D	D::77.78(28) E::22.22(8)
$\dot{\mathbf{C}}$	65	F	L	L::100.00(34)
$\stackrel{ ext{C}}{ ext{C}}$	66	F	M	
				M::94.44(34) I::5.56(2)
C	67	F	T	T::97.30(36)
\mathbf{C}	68	\mathbf{F}	${ m L}$	L::100.00(33)
\mathbf{C}	69	\mathbf{F}	A	A::93.94(31) T::6.06(2)
С	70	\mathbf{F}	${ m T}$	T::100.00(28)
\mathbf{C}	71	\mathbf{F}	W	W::100.00(28)
\mathbf{C}	72	F	V	V::100.00(31)
$\overset{\circ}{\mathrm{C}}$	73	F	Ġ	G::100.00(30)
C				
	74	F	G	G::63.33(19) V::33.33(10)
\mathbf{C}	75	F	N	N::93.33(28) S::6.67(2)
\mathbf{C}	76	\mathbf{F}	${ m L}$	L::100.00(28)
\mathbf{C}	77	\mathbf{F}	\mathbf{E}	E::100.00(28)
\mathbf{C}	78	\mathbf{F}	D	D::100.00(26)
\mathbf{C}	79	\mathbf{F}	P	P::92.31(24) L::7.69(2)
$\overset{\circ}{\mathrm{C}}$	80	F	V	V::59.09(13) A::40.91(9)
$\overset{\circ}{\mathrm{C}}$	81	F	Š	S::100.00(22)
\mathbf{C}	82	F	R	R::100.00(22)
C	83	F	D	D::100.00(31)
\mathbf{C}	84	\mathbf{F}	${ m L}$	L::100.00(31)
\mathbf{C}	85	\mathbf{F}	V	V::93.55(29) I::6.45(2)
\mathbf{C}	86	\mathbf{F}	V	V::100.00(27)
\mathbf{C}	87	\mathbf{F}	\mathbf{S}	S::96.55(28)
\mathbf{C}	88	F	Y	Y::100.00(32)
$\overset{\circ}{\mathrm{C}}$	89	F	V	V::100.00(34)
C		F		
	90		N	N::96.97(32)
C	91	F	T	T::100.00(33)
\mathbf{C}	92	\mathbf{F}	N	N::96.88(31)
\mathbf{C}	93	\mathbf{F}	${ m M}$	M::96.43(27)
\mathbf{C}	94	\mathbf{F}	G	G::92.86(26) A::7.14(2)
\mathbf{C}	95	\mathbf{F}	${ m L}$	L::100.00(28)
\mathbf{C}	96	\mathbf{F}	K	K::100.00(32)
$\overset{\circ}{\mathrm{C}}$	98	F	R	R::100.00(33)
C				
	99	F	Q	Q::100.00(33)
\mathbf{C}	100	F	L	L::100.00(33)
\mathbf{C}	101	F	L	L::100.00(36)
\mathbf{C}	102	\mathbf{F}	W	W::100.00(37)
\mathbf{C}	104	\mathbf{F}	Н	H::100.00(35)
				• /

\mathbf{C}	105	\mathbf{F}	I	I::100.00(35)
\mathbf{C}	106	\mathbf{F}	\mathbf{S}	S::100.00(35)
\mathbf{C}	107	\mathbf{F}	\mathbf{C}	C::100.00(36)
$\dot{ ext{C}}$	108	${ m F}$	Ĺ	L::100.00(36)
$\overset{\circ}{\mathrm{C}}$	109	F	T	T::100.00(36)
				` ,
C	111	F	G	G::97.14(34)
\mathbf{C}	112	F	\mathbf{R}	R::100.00(34)
\mathbf{C}	113	\mathbf{F}	Q	Q::84.38(27) E::15.62(5)
\mathbf{C}	114	\mathbf{F}	${ m T}$	T::100.00(30)
\mathbf{C}	115	\mathbf{F}	V	V::100.00(30)
\mathbf{C}	116	F	I	I::76.67(23) V::23.33(7)
$\dot{ ext{C}}$	117	${ m F}$	E	E::100.00(31)
$\overset{\circ}{\mathrm{C}}$	118	F	Y	Y::100.00(32)
C		F		` ,
	119		L	L::100.00(32)
C	120	F	V	V::100.00(29)
\mathbf{C}	121	F	\mathbf{S}	S::100.00(31)
\mathbf{C}	123	\mathbf{F}	G	G::100.00(37)
\mathbf{C}	124	\mathbf{F}	V	V::100.00(37)
\mathbf{C}	125	\mathbf{F}	\mathbf{W}	W::100.00(36)
\mathbf{C}	126	\mathbf{F}	I	I::100.00(37)
\mathbf{C}	127	\mathbf{F}	${ m R}$	R::97.30(36)
Č	128	F	T	T::100.00(34)
$\stackrel{ ext{C}}{ ext{C}}$	129	F	P	P::100.00(34)
C				
	130	F	P	P::90.91(30) Q::9.09(3)
C	131	F	A	A::100.00(32)
\mathbf{C}	132	F	Y	Y::100.00(30)
\mathbf{C}	133	\mathbf{F}	\mathbf{R}	R::100.00(30)
\mathbf{C}	134	\mathbf{F}	P	P::100.00(32)
\mathbf{C}	135	\mathbf{F}	P	P::100.00(36)
\mathbf{C}	136	\mathbf{F}	N	N::100.00(36)
\mathbf{C}	137	\mathbf{F}	A	A::100.00(31)
\mathbf{C}	138	\mathbf{F}	Р	P::100.00(29)
Č	139	F	I	I::100.00(29)
$\stackrel{ ext{C}}{ ext{C}}$	140	F	L	L::100.00(29)
C		F		
	141		S	S::100.00(29)
С	142	F	T	T::100.00(32)
C	143	F	L	L::90.00(27) T::10.00(3)
\mathbf{C}	144	F,	Р	P::100.00(30)
\mathbf{C}	145	\mathbf{F}	${ m E}$	E::100.00(34)
\mathbf{C}	146	\mathbf{F}	${ m T}$	T::57.58(19) N::42.42(14)
\mathbf{C}	147	\mathbf{F}	${ m T}$	T::100.00(38)
\mathbf{C}	148	\mathbf{F}	V	V::100.00(43)
\mathbf{C}	149	\mathbf{F}	V	V::88.37(38) I::11.63(5)
Č	150	F	R	R::100.00(41)
$\stackrel{ ext{C}}{ ext{C}}$	151	F	R	R::87.18(34) G::12.82(5)
C		F		
	152		R	R::100.00(44)
С	153	F	G	G::89.80(44) C::10.20(5)
С	154	F	R	R::100.00(51)
C	155	F	\mathbf{S}	S::100.00(51)
\mathbf{C}	156	F	P	P::100.00(51)
\mathbf{C}	157	F	\mathbf{R}	R::100.00(50)

\sim	450	-	ъ.	D 00 00(40)
\mathbf{C}	158	\mathbf{F}	\mathbf{R}	R::98.00(49)
\mathbf{C}	159	\mathbf{F}	\mathbf{R}	R::100.00(51)
\mathbf{C}	160	\mathbf{F}	${ m T}$	T::100.00(61)
С	161	\mathbf{F}	P	P::100.00(65)
$\overset{\circ}{\mathrm{C}}$	162	F	S	S::96.92(63)
				· · ·
C	163	F	P	P::100.00(67)
$^{\mathrm{C}}$	164	F	\mathbf{R}	R::100.00(68)
\mathbf{C}	165	\mathbf{F}	R	R::98.53(67)
\mathbf{C}	166	\mathbf{F}	\mathbf{R}	R::100.00(67)
\mathbf{C}	167	\mathbf{F}	R	R::100.00(65)
$\overset{\circ}{\mathrm{C}}$	168	F	S	S::98.46(64)
				· · ·
$\stackrel{ ext{C}}{\sim}$	169	F	Q	Q::82.81(53) K::17.19(11)
\mathbf{C}	170	\mathbf{F}	S	S::100.00(66)
С	171	\mathbf{F}	P	P::100.00(69)
\mathbf{C}	172	\mathbf{F}	\mathbf{R}	R::97.06(66)
\mathbf{C}	173	\mathbf{F}	\mathbf{R}	R::100.00(68)
C	174	\mathbf{F}	R	R::95.52(64)
C		F	R	· · ·
	175			R::100.00(73)
C	176	F	S	S::100.00(73)
$^{\mathrm{C}}$	177	F	Q	Q::100.00(71)
\mathbf{C}	178	\mathbf{F}	\mathbf{S}	S::95.77(68)
\mathbf{C}	179	\mathbf{F}	${ m R}$	R::67.16(45) P::32.84(22)
С	180	\mathbf{F}	${f E}$	E::67.16(45) A::32.84(22)
Č	181	$\overline{\mathrm{F}}$	$\overline{\mathrm{S}}$	S::100.00(67)
$\overset{\circ}{\mathrm{C}}$	182	F	$\overset{\circ}{\mathrm{Q}}$	Q::100.00(69)
	102	Т'	Q	Q100.00(09)
P1	1	\mathbf{F}	3.1	3.f. 100.00/00\
1 1	1	Г	M	M::100.00(36)
		F	M P	, ,
P1	2	F	P	P::100.00(31)
P1 P1	2 3	$_{ m F}$	P L	P::100.00(31) L::100.00(29)
P1 P1 P1	$\begin{matrix} 2\\ 3\\ 4\end{matrix}$	F F F	P L S	P::100.00(31) L::100.00(29) S::100.00(29)
P1 P1 P1 P1	2 3 4 5	F F F	P L S Y	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29)
P1 P1 P1 P1 P1	2 3 4 5 6	F F F F	P L S Y Q	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3)
P1 P1 P1 P1 P1 P1	2 3 4 5 6 7	F F F F	P L S Y Q H	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3)
P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8	F F F F F	P L S Y Q H F	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3)
P1 P1 P1 P1 P1 P1	2 3 4 5 6 7	F F F F	P L S Y Q H	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3)
P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8	F F F F F	P L S Y Q H F	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30)
P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10	F F F F F F	P L S Y Q H F R	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34)
P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11	F F F F F F	P L S Y Q H F R L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14)
P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12	F F F F F F F	P L S Y Q H F R L L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13	F F F F F F F F	P L S Y Q H F R L L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14	F F F F F F F F F	P L S Y Q H F R L L L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) L::100.00(43)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14 15	F F F F F F F F F F F	P L S Y Q H F R L L L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14 15	F F F F F F F F F F F	P L S Y Q H F R L L L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51)
P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L L C D D E A G	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51)
P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A G	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(51)
P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A G P L	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(38) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50)
P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A G P L E	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50) E::100.00(50)
P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A G P L E E	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50) E::100.00(50) E::98.00(49)
P1 P	2 3 4 5 6 7 8 9 10 11 12 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	P L S Y Q H F R L L L D D E A G P L E E E	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50) E::100.00(50) E::98.00(49) E::100.00(51)
P1 P	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	F F F F F F F F F F F F F F F F F F F	P L S Y Q H F R L L L D D E A G P L E E	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50) E::100.00(50) E::98.00(49)
P1 P	2 3 4 5 6 7 8 9 10 11 12 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	P L S Y Q H F R L L L D D E A G P L E E E	P::100.00(31) L::100.00(29) S::100.00(29) Y::100.00(29) Q::79.31(23) R::10.34(3) L::10.34(3) H::56.25(18) L::34.38(11) Q::9.38(3) F::90.00(27) L::10.00(3) R::100.00(30) R::100.00(34) L::57.58(19) I::42.42(14) L::100.00(43) L::100.00(43) L::100.00(43) D::87.18(34) E::12.82(5) D::61.54(24) E::38.46(15) E::89.36(42) D::10.64(5) A::100.00(51) G::100.00(51) P::100.00(50) E::100.00(50) E::98.00(49) E::100.00(51)

D1	07	П	D	D 07.01/05)
P1	27	F	R	R::97.01(65)
P1	28	F	L	L::100.00(67)
P1	29	F	A	A::100.00(68)
P1	30	F	D	D::98.53(67)
P1	31	F	E	E::100.00(67)
P1	32	\mathbf{F}	D	D::56.92(37) G::43.08(28)
P1	33	\mathbf{F}	L	L::98.46(64)
P1	34	\mathbf{F}	N	N::100.00(66)
P1	35	\mathbf{F}	R	R::100.00(69)
P1	36	\mathbf{F}	R	R::100.00(68)
P1	37	\mathbf{F}	V	V::100.00(70)
P1	38	F	A	A::100.00(67)
P1	39	F	E	E::95.52(64)
P1	40	\mathbf{F}	D	D::100.00(73)
P1	41	F	L	L::100.00(73)
P1	42	F	N	N::100.00(71)
P1	43	F	L	L::95.77(68)
P1	44	F	G	G::65.67(44) Q::32.84(22)
P1	45	F	N	N::67.16(45) L::32.84(22)
P1	46	F	L	L::67.65(46) P::32.35(22)
P1	47	F	N	N::100.00(69)
P1		F	V	` ,
	48	F		V::100.00(67)
P1	49		S	S::95.31(61)
P1	50	F	I	I::100.00(83)
P1	51	F	P	P::100.00(83)
P1	52	F	W	W::100.00(83)
P1	53	F	T	T::100.00(83)
P1	54	F	H	H::100.00(85)
P1	55	F	K	K::100.00(85)
P1	56	F	V	V::100.00(86)
P1	57	F	G	G::100.00(86)
P1	58	F	N	N::100.00(81)
P1	60	F	Τ	T::100.00(84)
P1	61	\mathbf{F}	G	G::100.00(82)
P1	62	\mathbf{F}	L	L::100.00(82)
P1	63	\mathbf{F}	Y	Y::100.00(78)
P1	64	\mathbf{F}	S	S::100.00(78)
P1	65	F	S	S::100.00(80)
P1	66	\mathbf{F}	T	T::100.00(74)
P1	67	\mathbf{F}	V	V::54.41(37) I::45.59(31)
P1	68	\mathbf{F}	P	P::100.00(76)
P1	69	F	V	V::100.00(76)
P1	71	F	N	N::100.00(69)
P1	72	F	P	P::100.00(70)
P1	73	\mathbf{F}	H	H::53.03(35) N::46.97(31)
P1	74	\mathbf{F}	W	W::100.00(66)
P1	75	F	K	K::100.00(65)
P1	76	F	T	T::100.00(66)
P1	77	F	P	P::100.00(63)
P1	78	F	S	S::100.00(68)
P1	80	F	P	P::100.00(70)
		-		()

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Ρ1
            81
                         F
                                      Ν
                                                           N::50.00(34) D::50.00(34)
Ρ1
            82
                         F
                                      Ι
                                                           I::100.00(71)
                         F
Ρ1
            83
                                      Η
                                                           H::100.00(71)
Ρ1
                         F
            84
                                      L
                                                           L::100.00(72)
                         \mathbf{F}
Ρ1
            85
                                      Η
                                                           H::100.00(69)
                         F
Ρ1
            86
                                      Q
                                                           Q::100.00(64)
Ρ1
            87
                         F
                                      D
                                                           D::98.44(63)
                         \mathbf{F}
Ρ1
            88
                                      T
                                                           I::100.00(67)
                         F
                                      Ι
Ρ1
            89
                                                           I::100.00(64)
Ρ1
            90
                         F
                                      Ν
                                                           N::50.75(34) K::49.25(33)
Ρ1
                         \mathbf{F}
                                      K
            91
                                                           K::100.00(67)
                                                           C::100.00(69)
Ρ1
            92
                         \mathbf{F}
                                      \mathbf{C}
Ρ1
            93
                         F
                                      Е
                                                           E::100.00(67)
Ρ1
                         F
                                      Q
                                                           Q::100.00(68)
            94
                         \mathbf{F}
                                      V
Ρ1
            96
                                                           V::100.00(68)
Ρ1
            97
                         F
                                      G
                                                           G::100.00(68)
                         \mathbf{F}
                                      Ρ
P1
            98
                                                           P::100.00(48)
Ρ1
            99
                         F
                                      L
                                                           L::100.00(48)
                         F
Ρ1
                                      \mathbf{T}
                                                           T::100.00(51)
            100
                         F
                                      V
Ρ1
            101
                                                           V::100.00(50)
                         F
Ρ1
            102
                                      Ν
                                                           N::100.00(55)
                         F
Ρ1
            103
                                      Ε
                                                           E::100.00(54)
                         F
Ρ1
            104
                                      Κ
                                                           K::100.00(52)
Ρ1
                         F
                                      R
            105
                                                           R::100.00(52)
                         \mathbf{F}
Ρ1
            106
                                      R
                                                           R::100.00(53)
Ρ1
                         F
            107
                                      \mathbf{L}
                                                           L::100.00(46)
Ρ1
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                         F
                                      Q
                                                           Q::82.22(37) N::17.78(8)
                         F
                                      Ĺ
Ρ1
            109
                                                           L::100.00(44)
Ρ1
            110
                         F
                                      Ι
                                                           I::82.98(39) V::17.02(8)
Ρ1
                         F
            111
                                      Μ
                                                           M::100.00(47)
Ρ1
            112
                         \mathbf{F}
                                      Р
                                                           P::97.78(44)
                         F
                                                           A::100.00(46)
Ρ1
            113
                                      Α
Ρ1
                         F
                                      R
            114
                                                           R::100.00(45)
                         \mathbf{F}
Ρ1
                                      Y
                                                           Y::89.74(35) F::10.26(4)
            116
                         F
                                      Ρ
Ρ1
            117
                                                           P::100.00(40)
Ρ1
                         F
                                      Κ
                                                           K::85.00(34) I::10.00(4) N::5.00(2)
            118
                         F
                                      V
                                                           V::90.00(36) S::10.00(4)
Ρ1
            119
                         F
                                      Т
Ρ1
            120
                                                           T::100.00(40)
Ρ1
            121
                         F
                                      K
                                                           K::100.00(41)
Ρ1
                         F
                                      Y
            122
                                                           Y::100.00(41)
                         F
Ρ1
            123
                                      L
                                                           L::100.00(41)
                         \mathbf{F}
                                      Р
Ρ1
            124
                                                           P::100.00(41)
                         F
Ρ1
            125
                                      \mathbf{L}
                                                           L::100.00(38)
Ρ1
            126
                         F
                                      D
                                                           D::81.58(31) E::18.42(7)
Ρ1
            127
                         F
                                      K
                                                           K::100.00(38)
Ρ1
            128
                         F
                                      G
                                                           G::100.00(40)
                         F
                                      Ι
Ρ1
            129
                                                           I::100.00(42)
Ρ1
            130
                         F
                                      Κ
                                                           K::100.00(41)
                         F
                                      Ρ
Ρ1
            131
                                                           P::100.00(41)
Ρ1
            132
                         \mathbf{F}
                                      Y
                                                           Y::100.00(39)
                         F
                                      Y
P1
                                                           Y::100.00(38)
            133
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Ρ1
                                    Ρ
           134
                        F
                                                        P::100.00(40)
Ρ1
                        F
                                    Е
                                                        E::81.08(30) D::18.92(7)
           135
                        F
Ρ1
           136
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Ρ1
                        F
                                                        L::83.78(31) V::16.22(6)
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                        \mathbf{F}
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Ρ1
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                                                        V::86.84(33) I::13.16(5)
Ρ1
                        F
           139
                                    Ν
                                                        N::100.00(34)
Ρ1
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                                                        H::100.00(33)
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Ρ1
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                                                        Y::100.00(32)
                        F
                                    Q
Ρ1
           143
                                                        Q::100.00(31)
Ρ1
                        F
                                    Τ
                                                        T::100.00(30)
           144
Ρ1
                        F
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                                                        R::100.00(32)
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Ρ1
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Ρ1
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                                                        L::100.00(32)
                                    L
                        F
Ρ1
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                        F
P1
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P1
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                        F
                                    W
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Ρ1
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Ρ1
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Ρ1
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                        F
Ρ1
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Ρ1
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Ρ1
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                        F
                                    Κ
Ρ1
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Ρ1
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                                    Т
Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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P1
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                                    Η
                                                        H::100.00(25)
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Ρ1
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Ρ1
                         F
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Ρ1
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                         F
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Ρ1
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Ρ1
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Ρ1
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                                      Ρ
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Ρ1
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                                      V
Ρ1
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Ρ1
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                                      G
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                                                           G::100.00(30)
P1
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                         \mathbf{F}
                                                           S::100.00(30)
            201
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                                      S
Ρ1
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Ρ1
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P1
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Ρ1
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                                                           S::100.00(27)
                         F
Ρ1
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                                                           K::100.00(29)
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Ρ1
            207
                                      Η
                                                           H::100.00(29)
                         F
Ρ1
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                                      R
                                                           R::70.97(22) Q::29.03(9)
                         F
Ρ1
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                                                           K::100.00(33)
                         F
Ρ1
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Ρ1
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Ρ1
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Ρ1
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                                                           L::70.59(24) P::29.41(10)
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Ρ1
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                                                           Q::100.00(43)
Ρ1
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                                                           S::100.00(43)
Ρ1
                         F
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                                                           Q::97.87(46)
Ρ1
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P1
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                                                           L::100.00(43)
                         F
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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Ρ1
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                         F
                                      W
Ρ1
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Ρ1
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                                      Ι
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Ρ1
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                                      R
                                                           R::100.00(44)
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Ρ1
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                                      G
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                         F
Ρ1
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                                                           I::62.79(27) V::27.91(12) G::9.30(4)
Ρ1
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                                      Η
                                                           H::100.00(42)
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                                                           P::61.90(26) S::38.10(16)
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P1	239	F	T	T::60.98(25) P::39.02(16)
P1	240	F	A	A::58.54(24) T::41.46(17)
P1	241	F	R	R::100.00(40)
P1	242	F	R	R::100.00(38)
P1	243	F	P	P::100.00(38)
P1	245	F	G	G::100.00(42)
P1	246	F	V	V::100.00(41)
P1	247	F	E	E::100.00(40)
P1	248	F	P	P::100.00(40)
P1	249	F	S	S::100.00(40)
P1	250	F	$_{\widetilde{\mathbf{G}}}$	G::100.00(40)
P1	251	F	S	S::100.00(40)
P1	252	F	G	G::58.33(21) R::41.67(15)
P1	253	\mathbf{F}	Η	H::100.00(36)
P1	254	\mathbf{F}	${ m T}$	T::64.52(20) A::35.48(11)
P1	255	\mathbf{F}	${f T}$	T::64.52(20) K::35.48(11)
P1	256	\mathbf{F}	N	N::100.00(34)
P1	257	\mathbf{F}	${ m L}$	I::39.39(13) L::33.33(11) Q::27.27(9)
P1	258	\mathbf{F}	A	A::100.00(35)
P1	259	\mathbf{F}	\mathbf{S}	S::97.22(35)
P1	260	\mathbf{F}	K	K::57.14(20) R::37.14(13) N::5.71(2)
P1	261	\mathbf{F}	\mathbf{S}	S::100.00(36)
P1	262	\mathbf{F}	A	A::100.00(30)
P1	263	\mathbf{F}	\mathbf{S}	S::100.00(30)
P1	264	\mathbf{F}	$^{\mathrm{C}}$	C::100.00(27)
P1	265	\mathbf{F}	${ m L}$	L::95.83(23)
P1	266	\mathbf{F}	Y	Y::58.33(14) H::37.50(9)
P1	267	\mathbf{F}	Q	Q::100.00(23)
P1	268	\mathbf{F}	\mathbf{S}	S::100.00(23)
P1	269	\mathbf{F}	Р	P::63.64(14) A::36.36(8)
P1	270	\mathbf{F}	V	V::100.00(22)
P1	271	\mathbf{F}	R	R::100.00(22)
P1	272	\mathbf{F}	K	K::100.00(17)
P1	273	\mathbf{F}	A	A::100.00(17)
P1	274	\mathbf{F}	A	A::100.00(17)
P1	275	\mathbf{F}	Y	Y::100.00(17)
P1	276	\mathbf{F}	\mathbf{S}	S::58.82(10) P::41.18(7)
P1	277	\mathbf{F}	A	A::58.82(10) N::41.18(7)
P1	278	\mathbf{F}	V	V::58.82(10) H::41.18(7)
P1	279	\mathbf{F}	\mathbf{S}	S::100.00(17)
P1	280	\mathbf{F}	${ m T}$	T::100.00(14)
P1	282	\mathbf{F}	\mathbf{E}	E::100.00(14)
P1	283	\mathbf{F}	${ m R}$	R::100.00(13)
P1	284	\mathbf{F}	H	H::100.00(13)
P1	285	\mathbf{F}	\mathbf{S}	S::53.85(7) T::46.15(6)
P1	286	\mathbf{F}	S	S::100.00(13)
P1	287	\mathbf{F}	\mathbf{S}	S::100.00(13)
P1	288	\mathbf{F}	G	G::100.00(13)
P1	289	\mathbf{F}	Н	H::100.00(13)
P1	290	$ m_F$	A	A::100.00(13)
P1	291	${f F}$	V	V::100.00(13)
				(- /

S1	1	\mathbf{F}	M	M::100.00(22)
S1	2	\mathbf{F}	\mathbf{G}	G::100.00(28)
S1	3	\mathbf{F}	Q	Q::80.77(21) K::19.23(5)
S1	4	\mathbf{F}	Ň	N::100.00(27)
S1	5	F	L	L::81.48(22) H::18.52(5)
S1	6	F	S	S::100.00(27)
S1	7	F	$\overset{\circ}{ m T}$	T::100.00(26)
S1	8	F	S	S::80.77(21) T::19.23(5)
	9	F	N	` '
S1				N::100.00(26)
S1	10	F	P	P::100.00(26)
S1	11	F	L	L::100.00(26)
S1	12	F	G	G::100.00(30)
S1	15	F	P	P::100.00(28)
S1	16	F	D	D::100.00(28)
S1	17	F	${ m H}$	H::100.00(30)
S1	18	\mathbf{F}	Q	Q::100.00(30)
S1	19	\mathbf{F}	${ m L}$	L::100.00(31)
S1	20	\mathbf{F}	D	D::100.00(30)
S1	21	\mathbf{F}	P	P::100.00(29)
S1	22	\mathbf{F}	A	A::100.00(28)
S1	24	\mathbf{F}	${ m R}$	R::100.00(27)
S1	25	\mathbf{F}	A	A::100.00(27)
S1	26	\mathbf{F}	N	N::100.00(29)
S1	27	\mathbf{F}	${ m T}$	T::100.00(29)
S1	28	F	A	A::70.97(22) R::29.03(9)
S1	29	${ m F}$	N	N::100.00(33)
S1	30	F	P	P::100.00(34)
S1	31	F	D	D::100.00(34)
S1	32	F	W	W::100.00(31)
S1	33	F	D	D::100.00(31)
S1	34	F	F	F::70.59(24) H::29.41(10)
S1	$\frac{34}{35}$	F	N	* * *
				N::100.00(43)
S1	36	F	P	P::100.00(46)
S1	37	F	N	N::97.87(46)
S1	38	F	K	K::100.00(43)
S1	39	F	D	D::100.00(43)
S1	40	F	P	T::48.84(21) H::32.56(14) P::18.60(8)
S1	41	F	W	W::100.00(43)
S1	42	F	P	P::67.44(29) T::32.56(14)
S1	43	F	D	D::64.44(29) E::35.56(16)
S1	44	\mathbf{F}	A	A::100.00(45)
S1	45	\mathbf{F}	N	N::100.00(46)
S1	46	\mathbf{F}	K	K::100.00(44)
S1	47	\mathbf{F}	V	V::100.00(44)
S1	48	\mathbf{F}	\mathbf{G}	G::100.00(46)
S1	49	\mathbf{F}	A	A::65.22(30) V::30.43(14)
S1	50	\mathbf{F}	G	G::100.00(45)
S1	51	\mathbf{F}	A	A::100.00(46)
S1	53	\mathbf{F}	G	G::100.00(44)
S1	54	\mathbf{F}	Р	P::100.00(43)
S1	55	F	G	G::100.00(43)

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                                       Τ
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S1
                          F
                                       Ρ
            58
                                                             P::100.00(42)
                          F
                                       Ρ
S1
            59
                                                             P::100.00(41)
S1
                          F
                                       Η
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                                                             H::100.00(41)
S1
            61
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                                       G
                                                             G::100.00(38)
                          F
                                       G
S1
            62
                                                             G::100.00(38)
S1
            63
                          F
                                       L
                                                             L::97.37(37)
                          \mathbf{F}
S1
            64
                                       \mathbf{L}
                                                             L::100.00(42)
S1
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            65
                                                             G::100.00(42)
S1
            66
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                                       W
                                                             W::73.17(30) S::26.83(11)
                          F
                                       \mathbf{S}
S1
            67
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                                       Ρ
S1
            68
                          \mathbf{F}
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S1
            69
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S1
            70
                          \mathbf{F}
                                       Α
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S1
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                          \mathbf{F}
                                       Q
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S1
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            73
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S1
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S1
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S1
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S1
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S1
            81
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S1
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S1
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S1
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S1
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                          \mathbf{F}
                                       Ν
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            88
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S1
            90
                                                             S::100.00(22)
S1
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                                       G
            91
                                                             G::100.00(21)
S1
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                                       \mathbf{R}
            92
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S1
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                                       Q
                                                             Q::100.00(17)
                          F
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S1
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S1
            95
                          F
                                       Τ
                                                             T::100.00(17)
                                       Ρ
                          F
S1
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S1
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S1
            98
                                                             S::58.82(10) T::41.18(7)
                          F
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S1
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S1
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            103
                                       D
                                                             D::100.00(13)
S1
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                          F
                                       \mathbf{T}
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                          F
S1
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                                       Η
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S1
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            107
                                                             Q::100.00(13)
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S1	109	\mathbf{F}	${ m M}$	M::100.00(13)
S1	110	F	Q	Q::100.00(13)

	Meta data
Assembly file: Annotation file: Reference file:	HBV-RYD-50.sam /home3/vatt01s/Work/Project-150-HBV/Data/P150-1/Annotation/HBV.anno KX357637.fa.
User name Hostname Location Date/Time	ales01a Alpha /home2/ales01a/HBV/P150-5/HBV-RYD-50 Mon 25 Mar 12:51:15 GMT 2019