

CAROLYN J. FERGUSON AND ROBERT K. JANSEN. 2002. A chloroplast DNA phylogeny of eastern *Phlox* (Polemoniaceae): implications of congruence and incongruence with the ITS phylogeny. *American Journal of Botany* 89(8): 1324-1335.

APPENDIX 2. Chloroplast DNA restriction site data. Mutation numbers are unique within enzyme. The tobacco cpDNA probe numbers follow Olmstead and Palmer (1992). In listings of fragment length changes, all sizes are estimated in kilobases. Parentheses indicate a small, inferred fragment not visualized, and brackets indicate an intermediate fragment inferred to have existed based upon current fragment sizes. Length variants can be identified in cases where the sum of fragments on the left is unequal to the sum of fragments on the right; each length variant was scored, and is therefore listed, for only one enzyme although they were detected in others. The samples listed (following sample codes in Appendix 1) possess the fragments written to the right of the arrow in the “fragment length change” column, and an asterisk (\*) signifies a phylogenetically informative restriction site change.

Enzyme – mutation number	Tobacco cpDNA probe(s)	Fragment length change	Samples	
Ase I	1	1, 2	2.3 --> 1.0 + 1.3	* P, CC, II, NNN, OOO
Ase I	2	1, 2	2.8 --> 2.3 + 0.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	3	1, 2	2.3 --> 2.0 + (0.3)	RR
Ase I	4	3, 4	1.6 --> 1.4 + (0.2)	X
Ase I	5	3, 4	1.6 --> 1.2 + (0.4)	N
Ase I	6	3, 4	1.6 --> 0.8 + 0.8	PP

Ase I	7	3, 4	1.9 --> 1.6 + 0.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, XXX, YYY, ZZZ, AAAA
Ase I	8	3, 4	1.2 + 1.25 --> [2.45]	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	9	3, 4	[2.45] --> 1.05 + 1.4	* HH, PPP
Ase I	10	5, 6	3.3 --> 2.2 + 1.1	GG
Ase I	11	7, 8	1.4 --> 0.8 + 0.6	C
Ase I	12	7, 8	3.3 --> 2.9 + 0.4	W
Ase I	13	7, 8	3.3 --> 2.0 + 1.3	HH
Ase I	14	9a, 9b	2.0 --> 1.6 + 0.4	* HH, PPP
Ase I	16	10, 11	1.7 --> 1.5 + (0.2)	GG
Ase I	17	10, 11	1.7 --> 1.5	* LL, OO, PP
Ase I	18	12, 13	1.7 --> 1.4 + (0.3)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	19	12, 13	1.5 --> 1.3 + (0.2)	VV
Ase I	20	14, 15	2.2 --> 1.4 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	21	16, 17	1.5 --> 0.7 + (0.8)	* HH, PPP
Ase I	22	16, 17	1.5 --> 1.2 + (0.3)	P
Ase I	23	16, 17	1.5 --> 1.4 + (0.1)	SSS

Ase I	24	18, 19, 20a	4.2 --> 1.5 + 2.7	* A, B, C, D, E, F, G, H, I, J, K, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	25	16, 17	0.6 --> 0.4 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	26	16, 17	1.2 --> 1.0 + (0.2)	JJJ
Ase I	27	18, 19, 20a	2.1 --> 1.9	P, AA
Ase I	28	18, 19, 20a	2.7 --> 1.6 + 1.1	GG
Ase I	29	18, 19, 20a	2.1 --> 1.6 + 0.5	* CC, HH, II, PPP
Ase I	30	18, 19, 20a	2.7 --> 1.6 + 1.2	* LL, OO
Ase I	31	18, 19, 20a	2.7 --> 1.4 + 1.3	HH
Ase I	33	20b, 21	2.9 --> 1.2 + [1.7]	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	34	20b, 21	1.2 --> 1.1 + (0.1)	CCC
Ase I	35	20b, 21	0.6 --> 0.5 + (0.1)	KKK
Ase I	36	20b, 21	2.2 --> 1.5 + 0.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	37	20b, 21	0.9 --> 0.7 + (0.2)	* C?, D, F, H, I, T, W?, Y?, Z?, AA?
Ase I	38	22, 23	1.5 --> 0.7 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, GG, HH, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Ase I	39	22, 23	1.7 --> 0.9 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	40	22, 23	0.9 --> 0.5 + (0.4)	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ
Ase I	41	22, 23	0.8 --> 0.5 + (0.3)	FF
Ase I	42	22, 23	1.7 --> 1.2 + 0.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ
Ase I	43	24, 25	2.3 --> 1.2 + 1.1	* C?, D, E, F, G?, H?, I?, PP, CCC?, DDD, EEE, FFF, GGG, HHH, III
Ase I	44	24, 25	4.8 --> 2.4 + 2.4	* A, B, J, K, L, M, N, O, Q, R, S, U, V, X, Y, Z, AA, BB, DD, EE, FF, HH, JJ, LL, NN-polymorphic, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	45	24, 25	4.8 --> 3.8 + 1.0	* A, CC
Ase I	46	26, 27	4.2 --> 2.1 + 2.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	47	26, 27	1.3 --> 1.0 + (0.3)	* BB, DD, VV, YY, CCC
Ase I	48	26, 27	4.2 --> 3.0 + 1.2	* HH, PPP
Ase I	49	26, 27	2.4 --> 1.3 + 1.1	* HH, PPP
Ase I	50	26, 27	3.7 --> 2.4 + 1.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, MM, NN-polymorphic?, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	51	26, 27	2.4 --> 1.5 + 0.9	TTT
Ase I	52	28, 29a, 29b	4.6 --> 4.0 + 0.6	FFF
Ase I	53	35-36	1.1 --> 1.0 + (0.1)	GG

Ase I	54	37	1.0 --> 0.8 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	55	37	1.3 --> 1.1 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	56	37	1.2 --> 1.0 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ase I	57	38	2.1 --> 1.6 + (0.5)	* CC, II, JJ
Ase I	58	38	2.1 --> 1.4 + 0.7	GG
Ase I	59	38	0.6 --> 0.5	* KK, MM, NN
Ase I	60	38	1.1 --> 1.0 + (0.1)	* PP, III
Ase I	61	38	0.7 --> 0.6 + (0.1)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	1	1, 2	3.8 --> 3.1 + (0.7)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	2	1, 2	2.3 --> 1.6 + 0.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Ava I	3	1, 2	2.7 --> 2.5	F
Ava I	4	3, 4	3.6 --> 3.1 + 0.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, RR, SS, TT, UU, VV, XX, YY, ZZ, AAA, BBB, CCC?, DDD, EEE, FFF, GGG?, HHH, III, JJJ, KKK, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	5	3, 4	3.1 --> 2.3 + 0.8	JJJ
Ava I	6	3, 4	9.7 --> 8.6 + (1.1)	AA
Ava I	7	5, 6	9.7 --> 6.5 + 3.2	* HH, UU, PPP, RRR
Ava I	8	9a, 9b	4.0 --> 2.2 + 1.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	9	9a, 9b	7.8 --> 4.0 + 3.8	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	10	10, 11	3.8 --> 3.3	* A, B-polymorphic, N
Ava I	12	12, 13	3.8 --> 3.5	III
Ava I	13	14, 15	1.1 --> 0.7 + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	14	14, 15	3.1 --> 2.7 + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava I	15	16, 17	8.6 --> 4.3 + 4.3	* HH, PPP
Ava I	16	18, 19, 20a	8.4 --> 6.2 + 2.2	* LL, OO

Ava I	17	18, 19, 20a	17.4 --> 9.0 + 8.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA
Ava I	18	20b, 21	8.4 --> 6.3 + 2.1	MMM
Ava I	19	22, 23	17.4 --> 16.4 + 1.0	* HH, PPP
Ava I	20	26, 27	0.8 --> 0.5 + 0.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA
Ava I	21	26, 27	2.7 --> 2.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA
Ava I	22	28, 29a, 29b	6.6 --> 3.8 + (2.8)	* X, DDD, FFF
Ava I	23	28, 29a, 29b	2.5 --> 1.4 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Z, AA, CC, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, WW, XX, ZZ, AAA, BBB, CCC?, DDD, FFF, GGG, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA
Ava I	24	28, 29a, 29b	6.6 --> 3.1 + (3.5)	* BB, DD
Ava I	25	28, 29a, 29b	1.9 --> 1.4 + (0.5)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA
Ava I	26	28, 29a, 29b	2.3 --> 1.6 + (0.7)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAAA

Ava I	27	38	9.9 --> 8.0 + 1.9	* C, D, E, F, H, I, T, W, KK, LL, MM, NN, OO, PP
Ava I	28	39, 40	8.0 --> 6.2 + 1.8	E
Ava II	1	1, 2	1.7 --> 1.4 + (0.3)	* E, F, T
Ava II	2	1, 2	3.2 --> 1.7 + 1.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	3	1, 2	6.7 --> 5.0 + 1.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	4	3, 4	5.3 --> 4.6 + 0.7	* HH, PPP
Ava II	5	5, 6	2.0 --> 1.1 + 0.9	GG
Ava II	6	7, 8	2.6 --> 2.2 + 0.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	7	7, 8	1.8 --> 1.1 + 0.7	* K, SS, SSS
Ava II	8	7, 8	[3.4] --> 2.7 + 0.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, GG, HH, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	9	7, 8	[3.4] --> 2.0 + 1.4	* CC, II
Ava II	10	7, 8	2.7 --> 1.7 + 1.0	* HH, PPP
Ava II	11	7, 8	0.5 --> 0.3 + (0.2)	* HH, JJJ, PPP
Ava II	12	7, 8	2.7 --> 2.4 + (0.3)	LLL
Ava II	13	9a, 9b	2.1 --> 1.7 + 0.4	* HH, YY, PPP
Ava II	14	10, 11	5.0 --> 4.7 + (0.3)	* A, B-polymorphic, N, GG
Ava II	15	10, 11	0.9 --> 0.8 + (0.1)	E



Ava II	16	12, 13	1.3 --> 0.8 + (0.5)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	17	12, 13	0.8 --> 0.7 + (0.1)	CC
Ava II	18	12, 13	3.5 --> 2.7 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	19	14, 15	4.2 --> 2.5 + 1.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	20	14, 15	1.7 --> 1.1 + (0.6)	GG
Ava II	21	14, 15	1.2 --> 0.8 + (0.4)	* MMM, NNN, OOO
Ava II	25	16, 17	4.3 --> 3.4 + 0.9	I
Ava II	26	16, 17	4.3 --> 2.7 + 1.6	* HH, PPP
Ava II	27	16, 17	[1.6] --> 1.3 + [0.3]	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	28	16, 17	[1.6] --> 0.9 + 0.7	GG
Ava II	29	18, 19, 20a	2.0 --> 1.7 + [0.3]	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Ava II	30	20b, 21	6.9 --> 5.2 + 1.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	31	20b, 21	1.9 --> 1.7 + 0.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	32	20b, 21	1.3 --> 1.0 + 0.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	33	20b, 21	4.9 --> 3.6 + 1.3	* MMM, NNN, OOO
Ava II	34	20b, 21	4.9 --> 4.4 + 0.5	ZZZ
Ava II	35	22, 23	4.4 --> 2.3 + 2.1	* Q, JJ
Ava II	36	22, 23	9.7 --> 8.5 + 1.2	GG
Ava II	37	22, 23	8.7 --> 4.4 + 4.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	38	22, 23	1.2 --> 1.0 + 0.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	39	24, 25	3.1 --> 3.0 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Ava II	40	26, 27	2.8 --> 2.1 + 0.7	GG
Ava II	41	26, 27	7.1 --> 4.3 + 2.8	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	42	28, 29a, 29b	1.0 --> 0.6 + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	43	28, 29a, 29b	0.9 --> 0.5 + 0.4	* JJJ, LLL
Ava II	44	35, 36	3.3 --> 2.4 + (0.9)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, LLL, MMM?, NNN?, OOO?, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	45	35, 36	6.7 --> 5.6 + 1.1	YY
Ava II	46	35, 36	3.7 --> 3.4 + 0.3	* J-polymorphic?, M, R, QQ, MMM, NNN, OOO
Ava II	47	37	[4.9] --> 3.7 + 1.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ava II	48	37	5.5 --> [4.9] + 0.6	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH I	1	1, 2	9.5 --> 6.3 + 3.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

BamH 1	2	1, 2	17.0 --> 6.4 + (10.6)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	3	3, 4	5.6 --> 3.0 + 2.6	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	4	3, 4	8.4 --> 6.8 + 1.6	* HH, PPP
BamH 1	5	7, 8	10.7 --> 8.4 + 2.3	* E, F-polymorphic, H, T, W, X, AA, HH, KK, LL, MM, NN, OO, PP, BBB, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP
BamH 1	6	7, 8	2.3 --> 1.6 + 0.7	PPP
BamH 1	7	9a, 9b	2.8 --> 1.7 + 1.1	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	8	12, 13	2.3 --> 1.8 + 0.5	* A, B, C, D, E, F, H, I, J, K, L, M, N, O, P, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	9	12, 13	2.1 --> 1.8 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, OO, PP, RR, SS, TT, UU, VV, WW, XX, YY, AAA, BBB, CCC, DDD, EEE, FFF, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	10	14, 15	2.5 --> 1.4 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

BamH 1	11	14, 15	11.2 --> 10.0 + 1.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	12	14, 15	1.4 --> 0.8 + 0.6	* C, D, E, F, H, I, T, W
BamH 1	13	20b, 21	20.5 --> 12.5 + 8.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	14	20b, 21	8.0 --> 5.5 + 2.5	* CC, II
BamH 1	15	20b, 21	8.0 --> 4.4 + 3.6	GG
BamH 1	16	20b, 21	8.5 --> 7.4 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, QQQ, RRR, SSS, TTT, UUU, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	17	20b, 21	8.5 --> 5.8 + 2.7	* EEE, GGG, HHH, III
BamH 1	18	20b, 21	1.2 --> 0.8 + 0.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	19	26, 27	18.5 --> 12.0 + 6.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BamH 1	20	39, 40	18.3 --> 15.0 + 3.3	* X, GG, HH, BBB, FFF, III, KKK, LLL, MMM, NNN, OOO, PPP
BamH 1	21	39, 40	18.3 --> 15.0 + 3.3	* AA, EEE, GGG, HHH
BamH 1	22	39, 40	16.0 --> 11.0 + 5.0	GG
BamH 1	23	39, 40	18.3 --> 13.7 + 4.6	* P, PP
BamH 1	24	39, 40	18.3 --> 13.3 + 5.0	YY
BamH 1	25	39, 40	16.0 --> 12.5 + 3.5	MMM

BamH I	26	39, 40	16.0 --> 12.3 + 3.7	OOO
BamH I	27	39, 40	16.0 --> 14.9 + 1.1	III
Ban II	1	7, 8	2.8 --> 1.8 + 1.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ban II	2	10, 11	3.7 --> 2.8 + 0.9	CC
Ban II	3	12, 13	1.2 --> 1.0	NN
Ban II	4	12, 13	2.7 --> 1.0 + (1.7)	III
Ban II	5	14, 15	3.1 --> 2.0 + 1.1	* EEE, GGG, HHH
Ban II	6	14, 15	3.1 --> 1.9 + 1.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ban II	7	16, 17	2.2 --> 1.9 + (0.3)	* KK, MM, NN
Ban II	8	16, 17	6.0 --> 3.2 + 2.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ban II	10	20b, 21	3.2 --> 1.8 + 1.4	BBB
Ban II	11	20b, 21	3.2 --> 2.0 + 1.2	MMM
Ban II	12	24, 25	4.1 --> 3.0 + 1.1	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO
Ban II	13	24, 25	1.3 --> 1.1 + (0.2)	* MMM, NNN, OOO
Ban II	14	26, 27	6.4 --> 3.7 + 2.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ban II	15	28, 29a, 29b	7.5 --> 4.0 + 3.5	* HH, III, PPP

Ban II	16	26, 27	3.4 --> 1.8 + 1.6	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Ban II	17	35, 36	9.1 --> 4.9 + 4.2	AA
Ban II	18	38	9.5 --> 5.2 + 4.3	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	1	3, 4	2.6 --> 2.5	* X, FFF
Bcl I	2	3, 4	4.8 --> 2.6 + 2.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	3	3, 4	2.5 --> 1.4 + 1.1	WW
Bcl I	4	5, 6	7.8 --> 5.6 + 2.2	* C, D, E, F-polymorphic?, H, I, T, W, X, AA, GG, HH, KK, LL, MM, NN, OO, PP, BBB, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP
Bcl I	5	9a, 9b	7.6 --> 4.7 + 2.9	* B-polymorphic?, C, D, E, F, H, I, L, P, Q, T, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, RRR
Bcl I	6	9a, 9b	4.7 --> 4.1 + 0.6	PPP
Bcl I	8	10, 11	2.4 --> 2.2 + (0.2)	* D, GG
Bcl I	10	12, 13	5.9 --> 5.4	* C, D, E, F, H, I, T, W, KK, LL, MM, NN, OO, PP
Bcl I	11	12, 13	[9.0] --> 5.9 + 3.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	12	12, 13	[10.2] --> 5.4 + 4.8	* HH, PPP?
Bcl I	13	14, 15	7.5 --> 5.6 + 1.9	BB
Bcl I	14	14, 15	7.5 --> 4.9 + 2.6	* HH, KK, MM, NN, PPP

Bcl I	15	12, 13	5.4 --> 2.8 + [2.6]	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	16	18, 19, 20a	7.5 --> 6.0 + 1.5	GG
Bcl I	17	18, 19, 20a	7.5 --> 5.7 + 1.8	* C, D, E, F, H, I, T, W
Bcl I	18	20b, 21	11.4 --> 7.5 + 3.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	19	22, 23	4.1 --> 2.5 + 1.6	* HH, PPP
Bcl I	20	20b, 21	3.9 --> 3.5 + 0.4	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, BB, CC, DD, EE, FF, GG, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	21	22, 23	4.1 --> 2.8 + 1.3	M
Bcl I	22	22, 23	4.1 --> 2.6 + 1.5	DDD
Bcl I	23	22, 23	5.3 --> 3.4 + 1.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	25	24, 25	11.5 --> 6.2 + [5.3]	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	26	24, 25	3.4 --> 2.8 + 0.6	* HH, PPP?
Bcl I	27	24, 25	9.4 --> 6.0 + 3.4	A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA



Bcl I	28	26, 27	3.0 --> 1.2 + 1.8	YY
Bcl I	29	28, 29a, 29b	1.4 --> 1.2 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	30	28, 29a, 29b	3.0 --> 1.8 + 1.2	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO
Bcl I	31	35, 36	10.0 --> 1.8 + (8.2)	N
Bcl I	32	38	1.8 --> 1.4 + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	33	38	5.0 --> 3.6 + 1.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bcl I	34	38	3.6 --> 3.4	PP
Bcl I	35	39, 40	6.5 --> 3.6 + 2.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	1	1, 2	5.4 --> 3.4 + 2.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	2	3, 4	1.4 --> 0.7 + 0.7	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL

Bgl II	3	3, 4	7.9 --> 5.0 + 2.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, GG, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	4	3, 4	[7.9] --> [4.8] + 3.1	* HH, PPP
Bgl II	5	3, 4	[4.8] --> 3.9 + 0.9	* HH, PPP
Bgl II	6	3, 4	[3.9] --> 2.4 + 1.5	PPP
Bgl II	7	3, 4	2.9 --> 1.7 + 1.2	KKK
Bgl II	8	5, 6	4.1 --> 2.5 + 1.6	A, B, C, D, E, F, G, H, I, J, K, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	9	7, 8	3.2 --> 2.6 + 0.6	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, FF, GG, HH, II, KK, LL, MM, NN, OO, PP, QQ, RR?, SS, TT, UU, VV, WW, XX?, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	10	7, 8	0.3 --> 0.2 + (0.1)	GG
Bgl II	11	7, 8	1.6 --> 1.0 + (0.6)	YYY
Bgl II	12	7, 8	3.9 --> 2.2 + 1.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	13	9a, 9b	6.6 --> 4.1 + 2.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	14	9a, 9b	4.3 --> 4.1 + (0.2)	GG

Bgl II	15	10, 11	6.0 --> 4.3 + (1.6)	* B-polymorphic, C, D, E, F, G, H, I, J, K, L, M, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	17	12, 13	[6.8] --> 5.1 + 1.7	W
Bgl II	18	12, 13	8.8 --> 6.8 + 2.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	19	12, 13	2.0 --> 1.2 + (0.2)	JJ
Bgl II	21	12, 13	2.0 --> 1.6 + (0.4)	PPP
Bgl II	22	14, 15	5.0 --> 2.9 + 2.1	* A, B, C, D, E, F, G, H, I, J, L, N, O, P, Q, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	23	14, 15	3.2 --> 2.1 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	24	14, 15	1.3 --> 0.7 + 0.6	* HH, PPP
Bgl II	25	14, 15	2.1 --> 1.1 + 1.1	* HH, PPP
Bgl II	26	14, 15	2.8 --> 2.3 + 0.5	* HH, PPP
Bgl II	27	16, 17	4.6 --> 2.3 + 2.3	* LL, OO
Bgl II	28	18, 19, 20a	6.2 --> 4.6 + 1.6	* B-polymorphic, C, D, E, F, H, I, K, L, O, P, Q, T, V, W, X, Y?, Z, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, RRR, SSS
Bgl II	30	18, 19, 20a	1.6 --> 1.5	MMM
Bgl II	31	18, 19, 20a	6.1 --> 4.5 + 1.6	* RRR, SSS

Bgl II	32	20b, 21	[3.0] --> 2.3 + 0.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	33	20b, 21	4.1 --> [3.0] + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	34	20b, 21	4.7 --> 4.0 + 0.7	KKK
Bgl II	35	22, 23	4.7 --> 3.5 + 1.2	W
Bgl II	36	26, 27	5.4 --> 3.5 + 1.9	* B-polymorphic, C, D, E, F, H, I, J, K, L, M, O, P, Q, R, T, V, W, X, Y, Z, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, RRR, SSS
Bgl II	37	26, 27	4.7 --> 3.5 + (1.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	38	26, 27	1.9 --> 1.5	* KK, MM, NN
Bgl II	39	37	5.3 --> 4.3 + (1.0)	HH
Bgl II	40	37	5.3 --> 3.6 + 1.7	PPP
Bgl II	41	37	1.6 --> 1.3 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Bgl II	42	38	7.2 --> 5.3 + 1.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Bgl II	43	39, 40	5.3 --> 3.4 + 1.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	1	1, 2	4.8 --> 2.4 + 2.4	JJ
BstN I	3	3, 4	4.9 --> 3.1 + 1.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, FFF, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	4	3, 4	2.0 --> 1.8 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	5	5, 6	5.8 --> 3.1 + 2.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	6	7, 8	1.2 --> 1.1 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	7	7, 8	3.3 --> 3.0 + (0.3)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

BstN I	8	7, 8	2.3 --> 1.4 + 0.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	9	9a, 9b	1.1 --> 0.8 + 0.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	10	10, 11	0.7 --> 0.6 + (0.1)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	13	10, 11	3.5 --> 1.8 + 1.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	15	12, 13	2.0 --> 1.9 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	16	14, 15	0.8 --> (?) + (?)	* A, B, G, J, K, M, N, O, R, S, U, V, Y, Z, FF, II?, JJ?, KK?, LL?, MM?, NN?, OO?, PP?, QQ?, RR?, SS?, TT?, UU?, VV?, WW?, XX?, YY?, ZZ?, AAA?, BBB?, CCC?, DDD?, EEE?, FFF?, GGG?, HHH?, III?, JJJ?, KKK?, LLL?, MMM?, NNN?, OOO?, PPP?, QQQ, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

BstN I	17	14, 15	1.3 --> 0.9 + 0.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	18	16, 17	3.3 --> 2.3 + 1.0	* P, CC
BstN I	19	16, 17	3.3 --> 2.8 + 0.5	PP
BstN I	20	16, 17	1.2 --> 1.1 + (0.1)	KKK
BstN I	21	16, 17	3.4 --> [2.5] + 0.9	* HH, PPP
BstN I	22	16, 17	[2.5] --> 1.4 + 1.1	* HH, PPP
BstN I	24	18, 19, 20a	1.0 --> 0.9 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	25	18, 19, 20a	3.4 --> 2.3 + (1.1)	II
BstN I	27	20b, 21	3.3 --> 1.9 + 1.4	GG
BstN I	28	20b, 21	3.3/3.1 --> 2.8 + (0.5/0.3)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	29	22, 23	1.6 --> 1.3 + 0.3	* C, D, E, F, H, I, P, T, W, X, AA, CC, GG, HH, II, KK, LL, MM, NN, OO, PP, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP
BstN I	30	22, 23	[7.4] --> 4.0 + 3.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	31	22, 23	[7.4] --> 5.9 + (1.5)	* KK, MM, NN

BstN I	32	24, 25	4.2 --> 3.4 + 0.8	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	33	24, 25	0.9 --> 0.7 + 0.2	* C, D, E, F, H, I, T, W
BstN I	34	24, 25	3.5 --> 1.5 + 1.0	PPP
BstN I	35	26, 27	5.8 --> 3.5 + 2.3	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, Y, Z, BB, CC, DD, EE, FF, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC?, PPP, QQQ, RRR, SSS, TTT, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	36	26, 27	2.3 --> 1.7 + 1.6	* HH, PPP
BstN I	37	26, 27	5.0 --> 3.8 + 1.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, ZZZ, AAAA
BstN I	39	35, 36	7.5 --> 5.6 + 1.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	40	37	1.9 --> 1.6 + 0.3	* HH, PPP
BstN I	41	37	2.9 --> 2.7 + (0.2)	A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	42	38	3.5 --> 2.6 + 0.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstN I	43	12, 13	3.5 --> 2.8 + (0.7)	PPP
BstX I	1	1, 2	3.4 --> 2.1 + 1.3	GG



BstX I	2	1, 2	5.0 --> 4.4 + 0.6	P
BstX I	3	3, 4	[17.0] --> 12.0 + 5.0	* A, B, E, F-polymorphic, G, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	4	7, 8	[17.0] --> 12.2 + 4.9	* HH, PPP
BstX I	5	9a, 9b	29.0/24.0 --> 12.0 + [17.0]/12.0	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, FFF, GGG, HHH, III, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	6	10, 11	29.0/24.0 --> 25.5/21.5 + 3.5	* C, D, E, F, H, I, T, W
BstX I	7	18, 19, 20a	15.5 --> 13.4 + 2.1	* JJJ, LLL
BstX I	8	20b, 21	3.2 --> 3.1 + (0.1)	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	9	22, 23	2.9 --> 2.1 + 0.8	* GG, XXX, ZZZ
BstX I	10	22, 23	9.7 --> 6.8 + 2.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	11	22, 23	5.8 --> 3.1 + 2.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	12	24, 25	3.7 --> 2.7 + 1.0	* C, D, E, F, H, I, T, W

BstX I	13	24, 25	13.3 --> 9.6 + 3.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	14	28, 29a, 29b	7.1 --> 4.9 + 2.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
BstX I	15	35, 36	3.0 --> 2.7 + 0.3	* A, B, C, D, E, F, G, H, I, J, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, MM, OO, PP, QQ, RR, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	1	1, 2	1.3 --> 1.0 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, QQQ?, RRR?, SSS?, TTT?, UUU?, VVV?, WWW?, XXX?, YYY?, ZZZ?, AAAA?
Cla I	2	1, 2	6.6 --> 3.7 + 2.9	* KK, MM, NN
Cla I	3	3, 4	9.1 --> 7.8 + 1.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	4	3, 4	10.4 --> 9.0 + 1.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Cla I	5	5, 6	9.0 --> 7.0 + 2.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	6	5, 6	7.0 --> 6.5 + 0.5	J
Cla I	7	5, 6	7.0 --> 4.4 + 2.6	KKK
Cla I	8	7, 8	2.3 --> 1.2 + 1.1	* HH, PPP
Cla I	9	7, 8	2.4 --> 2.3 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	10	7, 8	2.3 --> 1.7 + 0.6	* GG, HH, PPP
Cla I	11	9a, 9b	4.7 --> 2.6 + 2.1	MM
Cla I	13	10, 11	4.2 --> 3.5 + (0.7)	* X, GG, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP
Cla I	14	10, 11	16.5 --> 12.3 + 4.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, AA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	15	12, 13	12.3 --> [6.3] + 6.1	GG
Cla I	16	12, 13	[6.3] --> 5.7 + 0.6	GG
Cla I	17	12, 13	4.3 --> (3.6) + 0.7	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO
Cla I	18	14, 15	4.3 --> 3.8 + (0.5)	* A, N
Cla I	19	14, 15	20.9 --> 12.3 + 8.6	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	20	14, 15	9.3 --> 8.6 + 0.7	* A, B, G, H, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, MM, NN, QQ, RR, SS, TT, UU, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Cla I	21	14, 15	9.4 --> 6.7 + 2.7	F
Cla I	22	16, 17	8.5 --> 4.6 + 3.9	JJJ
Cla I	23	18, 19, 20a	[7.0] --> 6.3 + 0.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	24	18, 19, 20a	[7.0] --> 3.8 + [3.2]	* HH, PPP
Cla I	25	18, 19, 20a	[3.2] --> [2.1] + 1.1	* HH, PPP
Cla I	26	18, 19, 20a	[2.1] --> 1.7 + 0.4	* HH, PPP
Cla I	27	20b, 21	3.3 --> 2.4 + (0.9)	CCC
Cla I	28	22, 23	15.3 --> 11.8 + 3.5	* A, B, C, D, F-polymorphic, G, H, I, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	29	22, 23	3.5 --> 2.7 + (0.8)	YY
Cla I	30	22, 23	11.8 --> 7.4 + 4.4	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	31	24, 25	7.4 --> 5.4 + 2.0	* HH, PPP
Cla I	32	24, 25	8.2 --> 7.4 + (0.8)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	33	24, 25	7.4 --> 4.7 + 2.7	Q
Cla I	34	24, 25	6.9 --> 4.4 + 2.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Cla I	35	26, 27	5.7 --> 4.4 + 1.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	36	26, 27	2.5 --> 1.3 + 1.2	* A, B, E, F-polymorphic?, G, J, K, L, M, N, O, P, Q, R, S, U, V, Y, Z, BB, CC, DD, EE, FF, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	37	26, 27	2.5 --> 1.9 + 0.4	* LL, OO
Cla I	38	28, 29a, 29b	0.9 --> 0.8 + (0.1)	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ
Cla I	40	37	14.4 --> 11.9 + 2.5	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Cla I	41	37	12.7 --> 9.4 + 3.3	* LL, OO
Cla I	42	37	10.2 --> 9.6 + 0.6	GG
Cla I	43	37	11.9 --> 7.2 + [4.7]	* HH, PPP
Cla I	44	37	[4.7] --> 3.6 + 1.1	* HH, PPP
Cla I	45	39, 40	4.3 --> 3.3 + 2.1	* HH, PPP
Cla I	46	38	1.8 --> 1.2 + 0.6	GG
Cla I	47	39, 40	4.4 --> 2.6 + 1.8	* GG?, KK, MM, NN
Dra I	1	1, 2	11.1 --> 9.2 + 1.9	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, III, JJJ, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	2	1, 2	20.3/18.4 --> 11.1/9.2 + 9.2	* A, B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	3	3, 4	1.8 --> 1.3 + 0.5	GG, EEE

Dra I	5	3, 4	2.1 --> 1.8 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	6	7, 8	0.8 --> 0.7 + (0.1)	Q
Dra I	7	7, 8	3.3 --> 2.2 + 1.1	* GG, HH, PPP
Dra I	8	9a, 9b	5.6 --> 3.3 + 2.3	* C, D, E, F, H, I, L, P, T, W, X, AA, CC, GG, II, KK, LL, MM, NN, OO, PP, WW, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, PPP?
Dra I	9	10, 11	3.6 --> 2.6 + 1.0	GG
Dra I	10	10, 11	3.6 --> 3.3 + (0.3)	* L, QQ?, ZZ?, CCC?, DDD?, EEE?, FFF?, GGG?, HHH?, III?
Dra I	11	10, 11	3.6 --> 3.4 + 0.2	* Q, X, QQ?, ZZ?, CCC?, DDD?, EEE?, FFF?, GGG?, HHH?, III?
Dra I	12	10, 11	4.3 --> 3.6 + (0.7)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	13	10, 11	3.6 --> 1.9 + 1.7	DD
Dra I	14	12, 13	4.9 --> 3.4 + 1.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	15	12, 13	3.4 --> 2.7 + (0.7)	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, PP?, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	16	12, 13	3.2 --> 2.7 + (0.5)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	17	12, 13	5.5 --> 4.7 + 0.8	* X, FFF

Dra I	18	12, 13	2.7 --> 2.5 + (0.2)	GG
Dra I	19	12, 13	1.2 --> 1.0 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, XXX, YYY, ZZZ, AAAA
Dra I	20	12, 13	6.5 --> 5.5 + 1.0	A, B, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	21	14, 15	5.5 --> 4.5 + 1.0	X
Dra I	22	14, 15	8.9 --> 5.5 + 3.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	23	14, 15	7.1 --> [5.8] + 1.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	24	14, 15	[5.8] --> 3.4 + 2.4	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	25	14, 15	3.4 --> 2.1 + 1.3	GG
Dra I	26	14, 15	2.4 --> 1.2 + 1.2	GG
Dra I	27	14, 15	5.6 --> 3.5 + 2.1	GG
Dra I	28	16, 17	2.4 --> 1.5 + 0.9	FF
Dra I	29	18, 19, 20a	8.5 --> 5.8 + 2.7	* TT, UU
Dra I	30	18, 19, 20a	8.5 --> 7.0	KKK

Dra I	32	22, 23	1.5 --> 1.1 + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH?, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	33	22, 23	2.3 --> 2.0 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, N, O, P, Q, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	34	22, 23	0.4 --> 0.3 + (0.1)	* D, BB, CC
Dra I	35	22, 23	1.6 --> 1.3 + (0.3)	H
Dra I	36	22, 23	1.5 --> 1.3 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, KKK, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	37	22, 23	1.2 --> 0.7 + 0.5	* KK, MM, NN
Dra I	38	22, 23	1.6 --> 1.5	* KK, MM, NN
Dra I	39	24, 25	2.0 --> 1.2 + 0.8	W
Dra I	40	26, 27	4.3 --> 2.3 + 2.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	41	26, 27	3.4 --> 2.2 + 1.1	* HH, PPP
Dra I	44	26, 27	3.2 --> 2.1 + 1.1	* GGG, HHH, III
Dra I	45	26, 27	2.1 --> 1.3 + 0.8	HHH
Dra I	46	28, 29a, 29b	9.2 --> 5.6 + 3.6	* AA, BBB
Dra I	47	37	2.1 --> 1.5 + (0.6)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC?, FFF, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	49	37	1.9 --> 1.6 + (0.3)	* QQ, KKK



Dra I	50	37	1.9 --> 1.8 + (0.1)	MMM
Dra I	51	38	3.6 --> 2.0 + 1.6	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Dra I	52	38	1.5 --> 0.7 + 0.6	* GG, RR, JJJ, LLL
Dra I	53	39, 40	2.0 --> 1.8 + (0.2)	* A, B, E, F-polymorphic, G, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	1	1, 2	9.5 --> 5.2 + 4.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	2	3, 4	5.4 --> 4.5 + 0.9	* W, HH, KKK, PPP
EcoO109 I	3	5, 6	11.9 --> 7.4 + 4.5	* C, D, E, F, H, I, P, T, W, X, AA, CC, GG, HH, II, KK, LL, MM, NN, OO, PP, BBB, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP
EcoO109 I	4	7, 8	11.9 --> 11.1 + 0.8	* K, SSS
EcoO109 I	5	1, 2	10.3 --> 7.4 + 2.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	7	10, 11	6.6 --> 5.6 + 1.0	A, B, C, D, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	8	12, 13	4.6 --> 3.3 + 1.3	* CC, II, BBB

EcoO109 I	9	14, 15	4.4 --> 4.2 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	10	16, 17	2.2 --> 1.8 + 0.4	* MMM, NNN, OOO
EcoO109 I	11	16, 17	5.8 --> 5.4 + (0.4)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	12	18, 19, 20a	2.2 --> 1.9 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	14	20b, 21	3.7 --> 2.4 + 1.3	* MMM, NNN, OOO
EcoO109 I	15	22, 23	4.5 --> 2.3 + 2.2	* Q, JJ
EcoO109 I	16	22, 23	1.0 --> 0.5 + 0.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	17	22, 23	1.1 --> 0.6 + 0.5	GG
EcoO109 I	18	22, 23	11.8 --> 7.4 + 4.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
EcoO109 I	19	24, 25	11.8 --> 8.4 + 3.4	* HH, PPP
EcoO109 I	20	26, 27	6.6 --> 4.3 + 2.3	* HH, PPP
EcoO109 I	22	37	3.4 --> 3.3	* C, D, F-polymorphic, H, I
EcoO109 I	23	38	5.4 --> 4.9 + 0.5	AAA
Eco RI	1	1, 2	3.3 --> 2.8 + (0.5)	* HH, PPP

Eco RI	2	1, 2	5.9 --> 5.5 + (0.4)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	3	1, 2	5.9 --> 5.4 + 0.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	4	3, 4	2.1 --> 1.8 + (0.3)	* CC, II, JJJ
Eco RI	6	3, 4	1.7 --> 1.1 + (0.6)	* A, B, C, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	7	5, 6	0.9 --> 0.6 + (0.3)	GG
Eco RI	8	7, 8	3.0 --> 1.8 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, DD, EE, FF, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	9	7, 8	4.8 --> 3.0 + 1.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	10	9a, 9b	0.8 --> 0.7 + (0.1)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Eco RI	11	10, 11	1.2 --> 1.1 + (0.1)	* A, B, C, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	12	10, 11	1.1 --> 0.9	PP
Eco RI	13	10, 11	1.1 --> 1.0 + (0.1)	LLL
Eco RI	14	10, 11	15.1 --> 14.0 + 1.1	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	15	10, 11	2.1 --> 1.1 + 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	17	12, 13	14.0 --> 8.3 + 6.7	* GGG, KKK
Eco RI	18	14, 15	14.0 --> 11.2 + 2.8	* T, VV
Eco RI	19	14, 15	17.9 --> 14.0 + [3.9]	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	20	16, 17	[3.9] --> 2.7 + 1.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	21	16, 17	2.7 --> 2.1 + 0.6	KKK
Eco RI	22	16, 17	1.2 --> 0.7 + (0.5)	TT
Eco RI	23	16, 17	1.2 --> 0.6 + 0.6	* HH, PPP

Eco RI	24	18, 19, 20a	3.8 --> 2.0 + 1.8	* C, D, E, F, H, I, P, T, W, X, AA, CC, GG, HH, II, KK, LL, MM, NN, OO, PP, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP?
Eco RI	25	18, 19, 20a	1.8 --> 1.7 + (0.1)	* C, D, E, F, H, I, T, W, HH, KK, LL, MM, NN, OO, EEE, PPP?
Eco RI	26	18, 19, 20a	1.7 --> 1.6 + (0.1)	* LL, OO, EEE
Eco RI	27	18, 19, 20a	2.4 --> 1.4 + 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	28	20b, 21	0.9 --> 0.6 + 0.3	* X, AA, GG, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO
Eco RI	30	20b, 21	2.9 --> 2.0 + 0.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	31	20b, 21	2.4 --> 1.4 + 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	32	20b, 21	2.0 --> 1.6 + 0.4	* X, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL
Eco RI	33	20b, 21	1.9 --> 1.7 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	34	22, 23	3.6 --> 3.3 + 0.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC?, KKK, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	35	22, 23	3.3 --> 3.2 + (0.1)	* C, D, E, F, H, I, T, W

Eco RI	36	22, 23	0.4 --> 0.3 + (0.1)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	37	22, 23	1.9 --> 1.3 + (0.6)	* KK, MM, NN
Eco RI	38	22, 23	1.3 --> 0.9 + 0.4	* GG, HH, PPP
Eco RI	39	22, 23	1.6 --> 1.5 + (0.1)	GG
Eco RI	40	22, 23	1.6 --> 1.1	HH, PPP
Eco RI	41	22, 23	1.1 --> 1.0 + (0.1)	* E?, F?, T?, KK, LL, MM, NN, OO, PP
Eco RI	42	24, 25	2.0 --> 1.5 + (0.5)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	43	24, 25	3.3 --> 1.8 + (1.5)	* TT, UU
Eco RI	45	26, 27	2.2 --> 1.8 + (0.4)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	46	26, 27	1.7 --> 1.4 + 0.3	* KK, MM, NN
Eco RI	47	26, 27	0.6 --> 0.5 + (0.1)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	48	26, 27	0.7 --> 0.5 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	49	28, 29a, 29b	1.6 --> 0.8 + 0.8	* KK, LL, MM, NN, OO, PP
Eco RI	50	35, 36	6.3 --> 4.3 + 2.0	* HH, PPP

Eco RI	51	35, 36	0.6 --> 0.5 + (0.1)	* X, GG, DDD, EEE, FFF, GGG, HHH, MMM, NNN, OOO
Eco RI	52	35, 36	0.6 --> (?) + (?)	* HH, PPP
Eco RI	53	35, 36	0.8 --> 0.6 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC?, DDD, EEE, FFF, GGG, HHH, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	54	38	0.9 --> 0.4 + (0.5)	G
Eco RI	55	38	0.5 --> 0.3 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	56	38	1.4 --> 1.2 + 0.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	59	39, 40	2.4 --> 1.9 + 0.5	* A, B, G, J, K, L, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	60	39, 40	2.3 --> 2.1 + (0.2)	BB
Eco RI	61	39, 40	1.0 --> 0.7 + (0.3)	* HH, PPP
Eco RI	62	39, 40	1.2 --> 1.0 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RI	63	39, 40	3.6 --> 2.4 + 1.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Eco RV	1	1, 2	6.3 --> 4.2 + 2.1	* HH, PPP, RRR
Eco RV	2	1, 2	1.4 --> (?) + (?)	* A, B, C, D, H, I, K, L, M, N, O, P, Q, R, T, V, W, X, Z, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, FFF, III, JJJ, MMM, NNN, OOO, PPP, RRR, SSS
Eco RV	3	1, 2	12.6 --> 6.3 + 6.3	A, B, C, D, E, F, G, H, I, J, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	4	3, 4	6.3 --> 4.6 + 1.7	* E, F-polymorphic
Eco RV	5	5, 6	10.4 --> 6.2 + 4.2	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, MM, NN, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	6	9a, 9b	5.4 --> 3.1 + 2.3	* HH, PPP
Eco RV	7	9a, 9b	5.4 --> 4.9 + 0.5	GG
Eco RV	8	10, 11	2.0 --> 1.6 + (0.4)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	10	10, 11	28.0 --> 24.0 + 4.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	11	10, 11	4.0 --> 3.5 + (0.5)	* A, B-polymorphic
Eco RV	12	10, 11	4.0 --> 2.2 + 1.8	* C, D, E, F, H, I, T, W



Eco RV	13	10, 11	5.7 --> 4.0 + 1.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	14	12, 13	24.0 --> 23.4 + 0.6	* C, D, E, F, H, I?, T, W
Eco RV	15	18, 19, 20a	2.7 --> 1.8 + 0.9	* X, DDD, EEE, FFF, GGG, HHH, III, PPP
Eco RV	16	18, 19, 20a	26.0 --> 24.0 + 2.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	17	18, 19, 20a	5.3 --> 2.7 + 2.6	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	18	20b, 21	2.6 --> 1.3 + 1.3	* C, D, E, F, H, I, T, W, KK, LL, MM, NN, OO, PP
Eco RV	19	20b, 21	13.9 --> 11.2 + 2.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	20	22, 23	11.2 --> 8.3 + 2.9	CCC
Eco RV	21	24, 25	17.7 --> 11.2 + 6.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	22	24, 25	6.6 --> 5.3 + 1.3	* E, F-polymorphic, CC, WW

Eco RV	23	28, 29a, 29b	2.4 --> 1.5 + 0.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	24	37	23.3 --> 15.3 + 8.0	* A, B, F-polymorphic, G, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	25	37	8.0 --> 5.8 + 2.2	* P, CC, II
Eco RV	26	37	8.0 --> 6.3 + 1.7	* KK, LL, MM, NN, OO, PP
Eco RV	27	37	8.0 --> 5.0 + 3.0	TT
Eco RV	28	39, 40	15.1 --> 12.2 + 2.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Eco RV	29	39, 40	2.9 --> 1.7 + 1.2	* LL, OO, TT, UU
Eco RV	30	39, 40	2.3 --> 2.0 + (0.3)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, VVV, WWW, XXX, YYY, ZZZ
Eco RV	31	39, 40	2.9 --> 2.7 + (0.2)	W
Hinc II	1	1, 2	7.3 --> 5.8 + 1.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	2	3, 4	6.7 --> 3.6 + 3.1	* Q, FF
Hinc II	3	3, 4	6.7 --> 5.9 + (0.8)	* E, F-polymorphic
Hinc II	4	3, 4	6.7 --> [3.7] + 3.0	* HH, PPP
Hinc II	5	3, 4	[3.7] --> 2.1 + 1.6	* HH, PPP

Hinc II	6	5, 6	4.5 --> 3.8 + 0.7	* P, KKK
Hinc II	7	7, 8	7.3 --> [3.9] + 3.4	* HH, PPP
Hinc II	8	9a, 9b	[3.9] --> 2.1 + 1.8	* HH, PPP
Hinc II	9	9a, 9b	9.3 --> 7.1 + 2.2	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	11	10, 11	5.6 --> 3.3 + 2.3	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	13	12, 13	4.7 --> 4.4 + (0.3)	* HH, PPP
Hinc II	14	12, 13	7.4 --> 4.7 + 2.7	* A, B, C, D, E, F, G, H, I, J, K, L, N, O, P, Q, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	16	12, 13	4.7 --> 2.5 + 2.2	HHH
Hinc II	17	14, 15	3.0 --> 1.7 + 1.3	D
Hinc II	18	14, 15	3.1 --> 2.6 + 0.5	QQ
Hinc II	19	16, 17	4.5 --> 3.0 + 1.5	* A, B, C, D, E, F, G, H, I, J, K, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	20	16, 17	2.1 --> 1.1 + 1.0	* HH, PPP
Hinc II	23	24, 25	2.5 --> 1.3 + 1.2	* HH, PPP
Hinc II	24	26, 27	4.0 --> 3.1 + 0.9	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Hinc II	25	28, 29a, 29b	7.2 --> 5.7 + 1.5	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	26	28, 29a, 29b	10.9 --> 7.9 + 3.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	27	35, 36	1.7 --> 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	28	35, 36	4.2 --> 2.5 + 1.7	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	29	35, 36	3.6 --> 2.6 + 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	30	37	1.8 --> 1.5 + 0.3	GG
Hinc II	31	37	[4.5] --> 2.6 + 1.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP?, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	32	37	[4.5] --> 4.2 + 0.3	* HH, PPP?

Hinc II	34	37	2.0 --> 1.9 + (0.1)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, LL, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, MMM, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	35	38	2.2 --> 1.2 + 1.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	36	38	1.8 --> 1.5 + (0.3)	HH
Hinc II	37	38	0.8 --> 0.4 + (0.4)	PPP
Hinc II	38	39, 40	2.1 --> 1.1 + 1.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hinc II	39	39, 40	6.6 --> 5.6 + 1.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hind III	1	5, 6	2.1 --> 1.6 + 0.5	BB
Hind III	2	5, 6	2.3 --> 2.1 + (0.2)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hind III	3	7, 8	7.4 --> 6.9 + (0.5)	KKK
Hind III	4	10, 11	10.4 --> 6.4 + 4.0	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Hind III	5	10, 11	6.8 --> 6.4 + (0.4)	* B-polymorphic, C, D, E, F, H, I, N, T, W, KK, LL, MM, NN, OO, PP
Hind III	6	14, 15	6.6 --> 5.5 + 1.1	Q
Hind III	7	16, 17	6.6 --> 4.1 + 2.5	* HH, FFF, PPP
Hind III	8	18, 19, 20a	7.4 --> 6.3 + (1.1)	C
Hind III	9	20b, 21	3.5 --> 2.2 + 1.3	E
Hind III	11	20b, 21	10.9 --> 7.2 + 3.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hind III	12	22, 23	3.8 --> 3.5 + (0.3)	* C, D, E, F, H, I, T, W, X, AA, CC, GG, II, KK, LL, MM, NN, OO, PP, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN
Hind III	13	22, 23	7.4 --> 3.8 + 3.6	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hind III	14	24, 25	4.1 --> 3.9 + (0.2)	* C, D, E, F, H, I, T, W
Hind III	15	24, 25	3.6 --> 3.4 + (0.2)	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Hind III	16	26, 27	6.3 --> 3.6 + 2.7	* HH, PPP
Hind III	18	35, 36	3.1 --> 2.6 + (0.5)	PP
Hind III	19	39, 40	14.8 --> 12.5 + 2.3	* P, CC, II
Nci I	18	12, 13	7.0 --> 4.3 + 2.7	II
Nci I	19	12, 13	1.55 --> 0.6 + (0.95)	O
Nci I	1	1, 2	2.7 --> 1.6 + (1.1)	* B, G, S, U, Y, FF, KKK, LLL
Nci I	2	1, 2	2.7 --> 1.7 + (1.0)	* E, J, BBB

Nci I	4	1, 2	2.5 --> 2.0 + 0.3	* A, B, C, D, E, F, G, H, I, J, K, L, N, O, P, Q, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	5	1, 2	1.5 --> 1.0 + (0.5)	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, FFF, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	6	3, 4	6.9 --> 3.5 + 3.4	A, B, C, D, E, F, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	7	3, 4	5.9 --> 3.5 + 2.4	* A, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	8	3, 4	3.4 --> 1.8 + 1.6	* KK, MM, NN
Nci I	9	5, 6	2.7 --> 2.3 + 0.4	* HH, PPP
Nci I	10	5, 6	3.6 --> 2.2 + 1.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	11	5, 6	3.5 --> 2.9 + 0.6	RRR
Nci I	12	7, 8	3.5 --> 1.4 + 2.1	* HH, PPP
Nci I	13	9a, 9b	2.4 --> (?) + (?)	A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

Nci I	14	9a, 9b	4.6 --> 3.6 + 1.0	PPP
Nci I	15	9a, 9b	3.3 --> 1.8 + 1.5	RRR
Nci I	16	10, 11	7.0 --> 4.3 + 2.7	* B-polymorphic, P, CC, II
Nci I	17	12, 13	2.25 --> 1.55 + 0.7	* A, B, G, J-polymorphic, K, M, N, O, P, Q, R, S, U, V, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, QQ, RR, SS, TT, UU, VV, WW, XX, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	20	14, 15	2.3 --> 1.8 + 0.5	* C, D, E, F, H, I, L, P, Q, T, W, X, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, RRR
Nci I	21	18, 19, 20a	0.6 --> 0.5 + (0.1)	L
Nci I	23	18, 19, 20a	3.4 --> 2.8 + 0.6	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	25	18, 19, 20a	3.4 --> 2.7 + 0.7	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	26	18, 19, 20a	[6.4] --> 21. + 0.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	27	18, 19, 20a	[6.4] --> 5.4 + 1.0	* HH, PPP
Nci I	28	20b, 21	1.7 --> 1.5	* C, D, E, F, H, I, T, W, AA, KK, LL, MM, NN, OO, PP
Nci I	29	22, 23	3.9 --> 2.5 + 1.4	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, SS, TT, UU, VV, WW, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA



Nci I	30	24, 25	2.8 --> 2.5 + 0.3	LLL
Nci I	31	26, 27	1.4 --> 0.9 + 0.5	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	32	26, 27	1.8 --> 0.9 + 0.9	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	33	28, 29a, 29b	3.5 --> 2.7 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	34	28, 29a, 29b	3.5 --> 2.3 + (1.2)	* HH, PPP
Nci I	35	28, 29a, 29b	2.7 --> (?) + (?)	* EEE, GGG, HHH, III
Nci I	36	28, 29a, 29b	3.5 --> 3.3 + 0.2	III
Nci I	37	35, 36	6.2 --> 5.4 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	38	35, 36	4.9 --> 2.7 + 2.2	HH
Nci I	39	37	3.3 --> 2.7 + 0.6	* C, D, E, F, H, I, T, W
Nci I	40	37	6.1 --> 5.3 + 0.8	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, BB, CC, DD, EE, FF, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, LLL, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nci I	41	37	5.3 --> 3.4 + 1.9	HH
Nci I	42	37	0.8 --> 0.7 + (0.1)	BBB
Nci I	43	39, 40	7.2 --> 5.8 + 1.4	RR
Nsi I	1	1, 2	7.4 --> 7.1 + [0.3]	* GG?, HH, PPP

Nsi I	2	1, 2	2.2 --> 1.9 + [0.3]	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	3	3, 4	7.6 --> 5.9 + 1.7	III
Nsi I	4	7, 8	5.9 --> 5.1 + 0.8	GG
Nsi I	5	10, 11	9.8 --> 6.5 + 3.3	PP
Nsi I	6	16, 17	8.1 --> 5.5 + 2.6	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	8	18, 19, 20a	3.1 --> 2.9	PP
Nsi I	9	20b, 21	6.6 --> 3.5 + 3.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	10	22, 23	5.6 --> 4.3 + 1.3	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, HH, II, JJ, LL, OO, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	11	22, 23	1.3 --> 1.2 + (0.1)	E
Nsi I	12	24, 25	1.0 --> 0.7 + (0.3)	* C, D, E, F, H, I, P, R?, S?, T?, V, W, X, Y?, AA, CC, GG, BBB, CCC?, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO
Nsi I	13	24, 25	1.0 --> 0.9 + (0.1)	PPP
Nsi I	14	26, 27	8.5 --> 7.5 + 1.0	* HH, PPP
Nsi I	16	35, 36	3.3 --> 2.1 + 1.2	MMM
Nsi I	17	37	5.2 --> 3.0 + 2.2	* A, B, E, F-polymorphic, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, TTT, WWW, XXX, YYY, ZZZ
Nsi I	18	37	2.2 --> 1.3 + 0.9	JJJ

Nsi I	19	37	8.6 --> 5.6 + 3.0	A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	20	37	2.2 --> 2.1 + (0.1)	* II, JJ, KK?, LL, MM, NN, OO, PP, MMM
Nsi I	21	38	5.6 --> 5.0 + 0.6	* JJJ, LLL
Nsi I	22	39, 40	1.8 --> 1.1 + 0.7	* A, B, E, F, G, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, HH, II, JJ, KK, LL, MM, NN, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA
Nsi I	23	39, 40	1.1 --> 0.8 + (0.3)	GG
Nsi I	24	39, 40	0.7 --> 0.5 + (0.2)	* X, AA, GG, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO
Nsi I	25	39, 40	5.5 --> 4.4 + 1.1	* A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, BB, CC, DD, EE, FF, GG, II, JJ, KK, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, ZZ, AAA, BBB, CCC, DDD, EEE, FFF, GGG, HHH, III, JJJ, KKK, LLL, MMM, NNN, OOO, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, XXX, YYY, ZZZ, AAAA

#### Literature Cited

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