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	sample	sex	age	reg	ctg	size	moult	exp	prep	flag	type	qual	length
1	C200	M	O		1	P		conc	Luke	FALSE	O	ok	NA
2	C100	M	O		1	P		conc	Luke	FALSE	O	ok	NA
3	C50	M	O		1	P		conc	Luke	FALSE	O	ok	NA
4	C25	M	O		1	P		conc	Luke	FALSE	O	ok	NA
5	C12	M	O		1	P		conc	Luke	FALSE	O	ok	NA
6	C6	M	O		1	P		conc	Luke	FALSE	O	ok	NA
7	CIA	M	O		1	I		conc	Luke	FALSE	O	ok	NA
8	CIB	M	O		1	I		conc	Luke	FALSE	O	ok	NA
9	FYA	F	Y		1	P		OvY	Luke	FALSE	Y	ok	NA
10	FOA	F	O		1	P		OvY	Luke	FALSE	O	ok	NA
11	MYA	M	Y		1	P		OvY	Luke	FALSE	Y	ok	NA
12	MOA	M	O		1	P		OvY	Luke	FALSE	O	ok	NA
13	FYB	F	Y		2	P		OvY	Luke	FALSE	Y	ok	NA
14	FOB	F	O		2	P		OvY	Luke	FALSE	O	ok	NA
15	MYB	M	Y		2	P		OvY	Luke	FALSE	Y	ok	NA
16	MOB	M	O		2	P		OvY	Luke	FALSE	O	ok	NA
17	MOIA	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
18	MOIB	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
19	MOIC	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
20	MOID	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
21	CS1X	M	O		2	I		cut	Luke	FALSE	O	ok	NA
22	CS0.5X	M	O		2	I		cut	Luke	FALSE	O	ok	NA
23	CS0.25XA	M	O		2	I		cut	Luke	TRUE	O	ok	NA
24	CS0.25XB	M	O		2	I		cut	Luke	TRUE	O	ok	NA
25	O1a	F	O		3	P		OvY	Nikos	TRUE	O	bad	NA
26	O2a	F	O		3	P		OvY	Nikos	FALSE	O	ok	NA
27	Y1a	F	Y		3	P		OvY	Nikos	FALSE	Y	ok	NA
28	Y2a	F	Y		3	P		OvY	Nikos	FALSE	Y	ok	NA
29	OR1a	F	O	R	3	P		regen	Nikos	FALSE	OR	ok	NA
30	OR2a	F	O	R	3	P		regen	Nikos	FALSE	OR	ok	NA
31	YR1a	F	Y	R	3	P		regen	Nikos	TRUE	YR	bad	NA
32	YR2a	F	Y	R	3	P		regen	Nikos	TRUE	YR	bad	NA
33	FY5a	F	Y		3	P		OvY	Luke	FALSE	Y	ok	NA
34	FY6a	F	Y		3	P		OvY	Luke	FALSE	Y	ok	NA
35	FO5a	F	O		3	P		OvY	Luke	FALSE	O	ok	NA
36	FO7a	F	O		3	P		OvY	Luke	FALSE	O	ok	NA
37	O1b	F	O		4	P		OvY	Nikos	FALSE	O	ok	NA
38	O2b	F	O		4	P		OvY	Nikos	FALSE	O	ok	NA
39	Y1b	F	Y		4	P		OvY	Nikos	FALSE	Y	ok	NA
40	Y2b	F	Y		4	P		OvY	Nikos	FALSE	Y	ok	NA
41	OR1b	F	O	R	4	P		regen	Nikos	FALSE	OR	ok	NA
42	OR2b	F	O	R	4	P		regen	Nikos	FALSE	OR	ok	NA
43	YR1b	F	Y	R	4	P		regen	Nikos	FALSE	YR	ok	NA
44	YR2b	F	Y	R	4	P		regen	Nikos	FALSE	YR	ok	NA
45	FY7	F	Y		4	P		OvY	Luke	FALSE	Y	ok	NA
46	FY8	F	Y		4	P		OvY	Luke	FALSE	Y	ok	NA
47	FO8	F	O		4	P		OvY	Luke	FALSE	O	ok	NA
48	FO9	F	O		4	P		OvY	Luke	FALSE	O	ok	NA
49	SFPA	F	Y		5	P		OvY	Luke	FALSE	Y	bad	5.3
50	SFPB	F	Y		5	P		OvY	Luke	FALSE	Y	ok	3.9
51	LFPA	F	O		5	P		OvY	Luke	FALSE	O	ok	6.8
52	LFPB	F	O		5	P		OvY	Luke	FALSE	O	ok	7.4

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53 SMPA	M	Y		5 P	OvY	Luke	FALSE	Y	ok	NA	
54 SMPB	M	Y		5 P	OvY	Luke	TRUE	Y	bad	NA	
55 LMPA	M	O		5 P	OvY	Luke	FALSE	O	ok	NA	
56 LMPB	M	O		5 P	OvY	Luke	FALSE	O	ok	NA	
57 LMIA	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
58 LMIB	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
59 LMIC	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
60 LMID	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
61 Abef	F	O		6 P	regen	Luke	FALSE	O	ok		7
62 Aun	F	O		6 P	regen	Luke	FALSE	O	ok		7
63 Areg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		7
64 Bbef	F	O		6 P	regen	Luke	FALSE	O	ok		6.8
65 Bun	F	O		6 P	regen	Luke	FALSE	O	ok		6.8
66 Breg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		6.8
67 Cbef	F	O		6 P	regen	Luke	FALSE	O	bad		7
68 Cun	F	O		6 P	regen	Luke	FALSE	O	ok		7
69 Creg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		7
70 Dbef	F	O		6 P	regen	Luke	FALSE	O	ok		6.9
71 Dun	F	O		6 P	regen	Luke	FALSE	O	ok		6.9
72 Dreg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		6.9
73 SFPC	F	Y		7 P	OvY	Luke	FALSE	Y	ok		4.5
74 SFPD	F	Y		7 P	OvY	Luke	FALSE	Y	ok		4.1
75 LFPC	F	O		7 P	OvY	Luke	FALSE	O	ok		7.2
76 LFPD	F	O		7 P	OvY	Luke	FALSE	O	bad		7.3
77 SMPC	M	Y		7 P	OvY	Luke	FALSE	Y	ok	NA	
78 SMPD	M	Y		7 P	OvY	Luke	TRUE	Y	ok	NA	
79 LMPC	M	O		7 P	OvY	Luke	FALSE	O	ok	NA	
80 LMPD	M	O		7 P	OvY	Luke	FALSE	O	ok	NA	
81 0mPA	F	N		7 P	0 moult	Luke	FALSE	N	ok	NA	
82 0mPB	F	N		7 P	0 moult	Luke	FALSE	N	ok	NA	
83 10mPA	F	N		7 P	10 moult	Luke	FALSE	N	ok	NA	
84 20mPA	F	N		7 P	20 moult	Luke	FALSE	N	ok	NA	
85 Ebef	F	O		8 P	regen	Luke	FALSE	O	ok	NA	
86 Eun	F	O		8 P	regen	Luke	FALSE	O	ok		7
87 Ereg	F	O	R	8 P	regen	Luke	FALSE	OR	ok		7
88 Fbef	F	O		8 I	regen	Luke	FALSE	O	ok	NA	
89 Fun	F	O		8 I	regen	Luke	FALSE	O	ok		6.7
90 Freg	F	O	R	8 I	regen	Luke	TRUE	OR	bad		6.7
91 Gbef	F	O		8 I	regen	Luke	FALSE	O	ok	NA	
92 Gun	F	O		8 I	regen	Luke	FALSE	O	ok		7.1
93 Greg	F	O	R	8 I	regen	Luke	FALSE	OR	ok		7.1
94 LFIA	F	O		8 I	OvY	Luke	FALSE	O	ok	NA	
95 LFIB	F	O		8 I	OvY	Luke	FALSE	O	ok	NA	
96 20mPB	F	N		8 P	20 moult	Luke	FALSE	N	ok	NA	
97 LFIC	F	O		9 I	OvY	Luke	TRUE	O	ok	NA	
98 LFID	F	O		9 I	OvY	Luke	FALSE	O	ok	NA	
99 OmID	F	N		9 I	0 moult	Luke	FALSE	N	ok	NA	
100 10mIA	F	N		9 I	10 moult	Luke	FALSE	N	ok	NA	
101 n	F	N		9 I	moult	Luke	TRUE	N	bad	NA	
102 20mIC	F	N		9 I	20 moult	Luke	FALSE	N	ok	NA	
103 Ibef	F	O		9 I	regen	Luke	FALSE	O	ok	NA	
104 Iun	F	O		9 I	regen	Luke	FALSE	O	bad	NA	
105 Ireg	F	O	R	9 I	regen	Luke	FALSE	OR	ok	NA	

106 Kbef	F	O		9 I	regen	Luke	FALSE	O	ok	NA
107 Kun	F	O		9 I	regen	Luke	FALSE	O	bad	NA
108 Kreg	F	O	R	9 I	regen	Luke	FALSE	OR	ok	NA
109 A	F	O		10 P	Size-age	Luke	FALSE	O	bad	7.25
110 B	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.25
111 C	F	O		10 P	Size-age	Luke	FALSE	O	ok	8.25
112 D	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	5.75
113 E	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.5
114 F	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.75
115 G	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.25
116 H	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.75
117 I	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.5
118 J	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	4.75
119 K	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	5.5
120 L	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.25
121 Xreg	F	O	R	11 I	regen	Luke	FALSE	OR	ok	7.5
122 Xun	F	O		11 I	regen	Luke	FALSE	O	bad	7.5
123 Mreg	F	O	R	11 I	regen	Luke	TRUE	OR	bad	7
124 Mun	F	O		11 I	regen	Luke	FALSE	O	ok	7
125 Nreg	F	O	R	11 I	regen	Luke	FALSE	OR	?	7.5
126 Nun	F	O		11 I	regen	Luke	FALSE	O	?	7.5
127 Oreg	F	O	R	11 I	regen	Luke	FALSE	OR	?	6.5
128 Oun	F	O		11 I	regen	Luke	FALSE	O	?	6.5
129 M	F	M		11 P	Size-age	Luke	FALSE	M	ok	5.6
130 N	F	M		11 P	Size-age	Luke	FALSE	M	ok	5.9
131 O	F	Y		11 P	Size-age	Luke	FALSE	Y	?	5.3
132 P	F	O		11 P	Size-age	Luke	FALSE	O	?	6.4
133 Q	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.3
134 R	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.8
135 S	F	Y		12 P	Size-age	Luke	FALSE	Y	?	4.2
136 T	F	Y		12 P	Size-age	Luke	FALSE	Y	?	3.8
137 U	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.35
138 V	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.9
139 W	F	M		12 P	Size-age	Luke	FALSE	M	?	6.8
140 X	F	O		12 P	Size-age	Luke	FALSE	O	?	7.3
141 Y	F	M		12 P	Size-age	Luke	FALSE	M	?	6.2
142 Z	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.8
143 AA	F	M		12 P	Size-age	Luke	FALSE	M	?	6.6
144 AB	F	O		12 P	Size-age	Luke	TRUE	O	?	7.2
145 Preg	F	O	R	13 I	regen	Luke	FALSE	OR	?	6.5
146 Pun	F	O		13 I	regen	Luke	FALSE	O	?	6.5
147 Qreg	F	M	R	13 P	regen	Luke	FALSE	MR	?	6.2
148 Qun	F	M		13 P	regen	Luke	FALSE	M	?	6.2
149 Rreg	F	Y	R	13 P	regen	Luke	FALSE	YR	?	5.6
150 Run	F	Y		13 P	regen	Luke	FALSE	Y	?	5.6
151 Coh1	F	O		13 I	cohorts	Luke	FALSE	O	?	7.6
152 Coh2	F	O		13 I	cohorts	Luke	FALSE	O	?	7
153 Coh3	F	M		13 I	cohorts	Luke	FALSE	M	?	6.2
154 Coh4	F	M		13 I	cohorts	Luke	FALSE	M	?	6.1
155 Coh5	F	Y		13 I	cohorts	Luke	FALSE	Y	?	5.9
156 Coh6	F	Y		13 I	cohorts	Luke	FALSE	Y	?	5.9
157 Coh7	F	Y		14 I	cohorts	Luke	FALSE	Y	?	5.1
158 Coh8	F	Y		14 I	cohorts	Luke	FALSE	Y	?	4.1

159 Coh9	F	O		14 I	cohorts	Luke	FALSE	O	?	9.1
160 Coh10	F	Y		14 I	cohorts	Luke	FALSE	Y	?	4.8
161 Coh11	F	Y		14 I	cohorts	Luke	FALSE	Y	?	4
162 Coh12	F	Y		14 I	cohorts	Luke	FALSE	Y	?	4.1
163 Coh13	F	O		14 I	cohorts	Luke	FALSE	O	?	8.5
164 Coh14	F	O		14 I	cohorts	Luke	FALSE	O	?	8.9
165 Coh15	F	O		14 I	cohorts	Luke	FALSE	O	?	8.5
166 AC	F	Y		14 P	Size-age	Luke	FALSE	Y	?	5.8
167 AD	F	O		14 P	Size-age	Luke	FALSE	O	?	8.5
168 AE	F	O		14 P	Size-age	Luke	FALSE	O	?	7.5
169 AF	F	Y		15 P	Size-age	Luke	FALSE	Y	?	4.5
170 AG	F	O		15 P	Size-age	Luke	FALSE	O	?	8.2
171 AH	F	O		15 P	Size-age	Luke	FALSE	O	?	7.4
172 AI	F	O		15 P	Size-age	Luke	FALSE	O	?	7.4
173 Sreg	F	M	R	15 P	regen	Luke	FALSE	MR	?	6.1
174 Sun	F	M		15 P	regen	Luke	FALSE	M	?	6.1
175 Treg	F	Y	R	15 P	regen	Luke	FALSE	YR	?	5.3
176 Tun	F	Y		15 P	regen	Luke	FALSE	Y	?	5.3
177 PAreg	F	O	R-A	15 I	regen-long	Luke	FALSE	OR-A	?	7.5
178 PAun	F	O		15 I	regen-long	Luke	FALSE	O	?	7.5
179 PBreg	F	O	R-A	15 I	regen-long	Luke	FALSE	OR-A	?	7.5
180 PBun	F	O		15 I	regen-long	Luke	FALSE	O	?	7.5
181 BA	F	O		16 I	Size-age	Luke	FALSE	O	?	8.3
182 BB	F	O		16 I	Size-age	Luke	FALSE	O	?	8.1
183 BC	F	O		16 I	Size-age	Luke	FALSE	O	?	8.5
184 BD	F	O		16 I	Size-age	Luke	FALSE	O	?	9
185 BE	F	O		16 I	Size-age	Luke	FALSE	O	?	8.4
186 BF	F	O		16 I	Size-age	Luke	FALSE	O	?	8.6
187 BG	F	O		16 I	Size-age	Luke	FALSE	O	?	8.3
188 BH	F	O		16 I	Size-age	Luke	FALSE	O	?	8
189 BI	F	O		16 I	Size-age	Luke	FALSE	O	?	8.2
190 BJ	F	O		16 I	Size-age	Luke	FALSE	O	?	8.1
191 BK	F	O		16 I	Size-age	Luke	FALSE	O	?	8.5
192 BL	F	O		16 I	Size-age	Luke	FALSE	O	?	8.7
193 BM	F	O		17	Size-age	Luke	FALSE	O	?	7.9
194 BN	F	O		17	Size-age	Luke	FALSE	O	?	8.3
195 BO	F	O		17	Size-age	Luke	FALSE	O	?	9
196 BP	F	O		17	Size-age	Luke	FALSE	O	?	7.7
197 BR	F	O		17	Size-age	Luke	FALSE	O	?	8.3
198 BS	F	O		17	Size-age	Luke	FALSE	O	?	8.6
199 BT	F	O		17	Size-age	Luke	FALSE	O	?	9.6
201 LAun	F	O		17	regen-long	Luke	FALSE	O	?	7.2
202 LAreg	F	O	R-A	17	regen-long	Luke	FALSE	OR-A	?	7.2
203 LBun	F	O		17	regen-long	Luke	FALSE	O	?	7.2
204 LBreg	F	O	R-A	17	regen-long	Luke	FALSE	OR-A	?	7.2
205 LCun	F	O		18	regen-long	Luke	FALSE	O	?	6.3
206 LCreg	F	O	R-A	18	regen-long	Luke	FALSE	OR-A	?	6.3
207 LDun	F	O		18	regen-long	Luke	FALSE	O	?	7
208 LDreg	F	O	R-A	18	regen-long	Luke	FALSE	OR-A	?	7
209 LEun	F	M		18	regen-long	Luke	FALSE	M	?	6.1
210 LEreg	F	M	R-A	18	regen-long	Luke	FALSE	MR-A	?	6.1
211 LFun	F	O		18	regen-long	Luke	FALSE	O	?	7.1
212 LFreg	F	O	R-A	18	regen-long	Luke	FALSE	OR-A	?	7.1

213	LGun	F	M		18	regen-long	Luke	FALSE	M	?	6.6
214	LGreg	F	M	R-A	18	regen-long	Luke	FALSE	MR-A	?	6.6
215	BAun	F	M		18	regen	Luke	FALSE	M	?	6.9
216	BAreg	F	M	R	18	regen	Luke	FALSE	MR	?	6.9
217	BBun	F	M		19	regen	Luke	FALSE	M	?	6.9
218	BBreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.9
219	BCun	F	M		19	regen	Luke	FALSE	M	?	6.8
220	BCreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.8
221	BDun	F	M		19	regen	Luke	FALSE	M	?	6.6
222	BDreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.6
223	BEun	F	O		19	regen	Luke	FALSE	O	?	7.3
224	BEreg	F	O	R	19	regen	Luke	FALSE	OR	?	7.3
225	BFun	F	O		19	regen	Luke	FALSE	O	?	7.7
226	BFreg	F	O	R	19	regen	Luke	FALSE	OR	?	7.7
227	BGun	F	O		19	regen	Luke	FALSE	O	?	8.2
228	BGreg	F	O	R	19	regen	Luke	FALSE	OR	?	8.2
229	BHun	F	O		20	regen	Luke	FALSE	O	?	8.8
230	BHreg	F	O	R	20	regen	Luke	FALSE	OR	?	8.8
231	BIun	F	O		20	regen	Luke	FALSE	O	?	6.7
232	BIreg	F	O	R	20	regen	Luke	FALSE	OR	?	6.7
233	BJun	F	O		20	regen	Luke	FALSE	O	?	7.8
234	BJreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.8
235	BKun	F	O		20	regen	Luke	FALSE	O	?	7.3
236	BKreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.3
237	BLun	F	M		20	regen	Luke	FALSE	M	?	6.5
238	BLreg	F	M	R	20	regen	Luke	FALSE	MR	?	6.5
239	BMun	F	O		20	regen	Luke	FALSE	O	?	7.4
240	BMreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.4
241	BNun	F	O		21	regen	Luke	FALSE	O	?	7.5
242	BNreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.5
243	BOun	F	O		21	regen	Luke	FALSE	O	?	7.3
244	BOreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.3
245	BPun	F	O		21	regen	Luke	FALSE	O	?	8.2
246	BPreg	F	O	R	21	regen	Luke	FALSE	OR	?	8.2
247	BQun	F	M		21	regen	Luke	FALSE	M	?	6.6
248	BQreg	F	M	R	21	regen	Luke	FALSE	MR	?	6.6
249	BRun	F	O		21	regen	Luke	FALSE	O	?	7.2
250	BRreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.2
251	BSun	F	M		21	regen	Luke	FALSE	M	?	6.3
252	BSreg	F	M	R	21	regen	Luke	FALSE	MR	?	6.3
253	BTun	F	O		22	regen	Luke	FALSE	O	?	7.2
254	BTreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.2
255	BUun	F	O		22	regen	Luke	FALSE	O	?	7.2
256	BUreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.2
257	BVun	F	M		22	regen	Luke	FALSE	M	?	6.9
258	BVreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.9
259	BWun	F	M		22	regen	Luke	FALSE	M	?	6.2
260	BWreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.2
261	BXun	F	M		22	regen	Luke	FALSE	M	?	6.5
262	BXreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.5
263	BYun	F	O		22	regen	Luke	FALSE	O	?	7.5
264	BYreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.5
265	BZun	F	M		23	regen	Luke	FALSE	M	?	6.3

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266	BZreg	F	M	R	23	regen	Luke	FALSE	MR	?	6.3
267	CAun	F	O		23	regen	Luke	FALSE	O	?	7.6
268	CAreg	F	O	R	23	regen	Luke	FALSE	OR	?	7.6
269	CBun	F	O		23	regen	Luke	FALSE	O	?	7.1
270	CBreg	F	O	R	23	regen	Luke	FALSE	OR	?	7.1
271	CCun	F	M		23	regen	Luke	FALSE	M	?	6.2
272	CCreg	F	M	R	23	regen	Luke	FALSE	MR	?	6.2

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codeset	set
phaw_1	old
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	sample	sex	age	reg	ctg	size	moult	exp	prep	flag	type	qual	length
1	C200	M	O		1	P		conc	Luke	FALSE	O	ok	NA
2	C100	M	O		1	P		conc	Luke	FALSE	O	ok	NA
3	C50	M	O		1	P		conc	Luke	FALSE	O	ok	NA
4	C25	M	O		1	P		conc	Luke	FALSE	O	ok	NA
5	C12	M	O		1	P		conc	Luke	FALSE	O	ok	NA
6	C6	M	O		1	P		conc	Luke	FALSE	O	ok	NA
7	CIA	M	O		1	I		conc	Luke	FALSE	O	ok	NA
8	CIB	M	O		1	I		conc	Luke	FALSE	O	ok	NA
9	FYA	F	Y		1	P		OvY	Luke	FALSE	Y	ok	NA
10	FOA	F	O		1	P		OvY	Luke	FALSE	O	ok	NA
11	MYA	M	Y		1	P		OvY	Luke	FALSE	Y	ok	NA
12	MOA	M	O		1	P		OvY	Luke	FALSE	O	ok	NA
13	FYB	F	Y		2	P		OvY	Luke	FALSE	Y	ok	NA
14	FOB	F	O		2	P		OvY	Luke	FALSE	O	ok	NA
15	MYB	M	Y		2	P		OvY	Luke	FALSE	Y	ok	NA
16	MOB	M	O		2	P		OvY	Luke	FALSE	O	ok	NA
17	MOIA	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
18	MOIB	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
19	MOIC	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
20	MOID	M	O		2	I		OvY	Luke	FALSE	O	ok	NA
21	CS1X	M	O		2	I		cut	Luke	FALSE	O	ok	NA
22	CS0.5X	M	O		2	I		cut	Luke	FALSE	O	ok	NA
23	CS0.25XA	M	O		2	I		cut	Luke	TRUE	O	ok	NA
24	CS0.25XB	M	O		2	I		cut	Luke	TRUE	O	ok	NA
25	O1a	F	O		3	P		OvY	Nikos	TRUE	O	bad	NA
26	O2a	F	O		3	P		OvY	Nikos	FALSE	O	ok	NA
27	Y1a	F	Y		3	P		OvY	Nikos	FALSE	Y	ok	NA
28	Y2a	F	Y		3	P		OvY	Nikos	FALSE	Y	ok	NA
29	OR1a	F	O	R	3	P		regen	Nikos	FALSE	OR	ok	NA
30	OR2a	F	O	R	3	P		regen	Nikos	FALSE	OR	ok	NA
31	YR1a	F	Y	R	3	P		regen	Nikos	TRUE	YR	bad	NA
32	YR2a	F	Y	R	3	P		regen	Nikos	TRUE	YR	bad	NA
33	FY5a	F	Y		3	P		OvY	Luke	FALSE	Y	ok	NA
34	FY6a	F	Y		3	P		OvY	Luke	FALSE	Y	ok	NA
35	FO5a	F	O		3	P		OvY	Luke	FALSE	O	ok	NA
36	FO7a	F	O		3	P		OvY	Luke	FALSE	O	ok	NA
37	O1b	F	O		4	P		OvY	Nikos	FALSE	O	ok	NA
38	O2b	F	O		4	P		OvY	Nikos	FALSE	O	ok	NA
39	Y1b	F	Y		4	P		OvY	Nikos	FALSE	Y	ok	NA
40	Y2b	F	Y		4	P		OvY	Nikos	FALSE	Y	ok	NA
41	OR1b	F	O	R	4	P		regen	Nikos	FALSE	OR	ok	NA
42	OR2b	F	O	R	4	P		regen	Nikos	FALSE	OR	ok	NA
43	YR1b	F	Y	R	4	P		regen	Nikos	FALSE	YR	ok	NA
44	YR2b	F	Y	R	4	P		regen	Nikos	FALSE	YR	ok	NA
45	FY7	F	Y		4	P		OvY	Luke	FALSE	Y	ok	NA
46	FY8	F	Y		4	P		OvY	Luke	FALSE	Y	ok	NA
47	FO8	F	O		4	P		OvY	Luke	FALSE	O	ok	NA
48	FO9	F	O		4	P		OvY	Luke	FALSE	O	ok	NA
49	SFPA	F	Y		5	P		OvY	Luke	FALSE	Y	bad	5.3
50	SFPB	F	Y		5	P		OvY	Luke	FALSE	Y	ok	3.9
51	LFPA	F	O		5	P		OvY	Luke	FALSE	O	ok	6.8
52	LFPB	F	O		5	P		OvY	Luke	FALSE	O	ok	7.4

53 SMPA	M	Y		5 P	OvY	Luke	FALSE	Y	ok	NA	
54 SMPB	M	Y		5 P	OvY	Luke	TRUE	Y	bad	NA	
55 LMPA	M	O		5 P	OvY	Luke	FALSE	O	ok	NA	
56 LMPB	M	O		5 P	OvY	Luke	FALSE	O	ok	NA	
57 LMIA	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
58 LMIB	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
59 LMIC	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
60 LMID	M	O		5 I	OvY	Luke	FALSE	O	ok	NA	
61 Abef	F	O		6 P	regen	Luke	FALSE	O	ok		7
62 Aun	F	O		6 P	regen	Luke	FALSE	O	ok		7
63 Areg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		7
64 Bbef	F	O		6 P	regen	Luke	FALSE	O	ok		6.8
65 Bun	F	O		6 P	regen	Luke	FALSE	O	ok		6.8
66 Breg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		6.8
67 Cbef	F	O		6 P	regen	Luke	FALSE	O	bad		7
68 Cun	F	O		6 P	regen	Luke	FALSE	O	ok		7
69 Creg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		7
70 Dbef	F	O		6 P	regen	Luke	FALSE	O	ok		6.9
71 Dun	F	O		6 P	regen	Luke	FALSE	O	ok		6.9
72 Dreg	F	O	R	6 P	regen	Luke	FALSE	OR	ok		6.9
73 SFPC	F	Y		7 P	OvY	Luke	FALSE	Y	ok		4.5
74 SFPD	F	Y		7 P	OvY	Luke	FALSE	Y	ok		4.1
75 LFPC	F	O		7 P	OvY	Luke	FALSE	O	ok		7.2
76 LFPD	F	O		7 P	OvY	Luke	FALSE	O	bad		7.3
77 SMPC	M	Y		7 P	OvY	Luke	FALSE	Y	ok	NA	
78 SMPD	M	Y		7 P	OvY	Luke	TRUE	Y	ok	NA	
79 LMPC	M	O		7 P	OvY	Luke	FALSE	O	ok	NA	
80 LMPD	M	O		7 P	OvY	Luke	FALSE	O	ok	NA	
81 0mPA	F	N		7 P	0 moult	Luke	FALSE	N	ok	NA	
82 0mPB	F	N		7 P	0 moult	Luke	FALSE	N	ok	NA	
83 10mPA	F	N		7 P	10 moult	Luke	FALSE	N	ok	NA	
84 20mPA	F	N		7 P	20 moult	Luke	FALSE	N	ok	NA	
85 Ebef	F	O		8 P	regen	Luke	FALSE	O	ok	NA	
86 Eun	F	O		8 P	regen	Luke	FALSE	O	ok		7
87 Ereg	F	O	R	8 P	regen	Luke	FALSE	OR	ok		7
88 Fbef	F	O		8 I	regen	Luke	FALSE	O	ok	NA	
89 Fun	F	O		8 I	regen	Luke	FALSE	O	ok		6.7
90 Freg	F	O	R	8 I	regen	Luke	TRUE	OR	bad		6.7
91 Gbef	F	O		8 I	regen	Luke	FALSE	O	ok	NA	
92 Gun	F	O		8 I	regen	Luke	FALSE	O	ok		7.1
93 Greg	F	O	R	8 I	regen	Luke	FALSE	OR	ok		7.1
94 LFIA	F	O		8 I	OvY	Luke	FALSE	O	ok	NA	
95 LFIB	F	O		8 I	OvY	Luke	FALSE	O	ok	NA	
96 20mPB	F	N		8 P	20 moult	Luke	FALSE	N	ok	NA	
97 LFIC	F	O		9 I	OvY	Luke	TRUE	O	ok	NA	
98 LFID	F	O		9 I	OvY	Luke	FALSE	O	ok	NA	
99 OmID	F	N		9 I	0 moult	Luke	FALSE	N	ok	NA	
100 10mIA	F	N		9 I	10 moult	Luke	FALSE	N	ok	NA	
101 n	F	N		9 I	moult	Luke	TRUE	N	bad	NA	
102 20mIC	F	N		9 I	20 moult	Luke	FALSE	N	ok	NA	
103 Ibef	F	O		9 I	regen	Luke	FALSE	O	ok	NA	
104 Iun	F	O		9 I	regen	Luke	FALSE	O	bad	NA	
105 Ireg	F	O	R	9 I	regen	Luke	FALSE	OR	ok	NA	

106 Kbef	F	O		9 I	regen	Luke	FALSE	O	ok	NA
107 Kun	F	O		9 I	regen	Luke	FALSE	O	bad	NA
108 Kreg	F	O	R	9 I	regen	Luke	FALSE	OR	ok	NA
109 A	F	O		10 P	Size-age	Luke	FALSE	O	bad	7.25
110 B	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.25
111 C	F	O		10 P	Size-age	Luke	FALSE	O	ok	8.25
112 D	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	5.75
113 E	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.5
114 F	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.75
115 G	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.25
116 H	F	O		10 P	Size-age	Luke	FALSE	O	ok	7.75
117 I	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.5
118 J	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	4.75
119 K	F	Y		10 P	Size-age	Luke	FALSE	Y	ok	5.5
120 L	F	M		10 P	Size-age	Luke	FALSE	M	ok	6.25
121 Xreg	F	O	R	11 I	regen	Luke	FALSE	OR	ok	7.5
122 Xun	F	O		11 I	regen	Luke	FALSE	O	bad	7.5
123 Mreg	F	O	R	11 I	regen	Luke	TRUE	OR	bad	7
124 Mun	F	O		11 I	regen	Luke	FALSE	O	ok	7
125 Nreg	F	O	R	11 I	regen	Luke	FALSE	OR	?	7.5
126 Nun	F	O		11 I	regen	Luke	FALSE	O	?	7.5
127 Oreg	F	O	R	11 I	regen	Luke	FALSE	OR	?	6.5
128 Oun	F	O		11 I	regen	Luke	FALSE	O	?	6.5
129 M	F	M		11 P	Size-age	Luke	FALSE	M	ok	5.6
130 N	F	M		11 P	Size-age	Luke	FALSE	M	ok	5.9
131 O	F	Y		11 P	Size-age	Luke	FALSE	Y	?	5.3
132 P	F	O		11 P	Size-age	Luke	FALSE	O	?	6.4
133 Q	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.3
134 R	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.8
135 S	F	Y		12 P	Size-age	Luke	FALSE	Y	?	4.2
136 T	F	Y		12 P	Size-age	Luke	FALSE	Y	?	3.8
137 U	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.35
138 V	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.9
139 W	F	M		12 P	Size-age	Luke	FALSE	M	?	6.8
140 X	F	O		12 P	Size-age	Luke	FALSE	O	?	7.3
141 Y	F	M		12 P	Size-age	Luke	FALSE	M	?	6.2
142 Z	F	Y		12 P	Size-age	Luke	FALSE	Y	?	5.8
143 AA	F	M		12 P	Size-age	Luke	FALSE	M	?	6.6
144 AB	F	O		12 P	Size-age	Luke	TRUE	O	?	7.2
145 Preg	F	O	R	13 I	regen	Luke	FALSE	OR	?	6.5
146 Pun	F	O		13 I	regen	Luke	FALSE	O	?	6.5
147 Qreg	F	M	R	13 P	regen	Luke	FALSE	MR	?	6.2
148 Qun	F	M		13 P	regen	Luke	FALSE	M	?	6.2
149 Rreg	F	Y	R	13 P	regen	Luke	FALSE	YR	?	5.6
150 Run	F	Y		13 P	regen	Luke	FALSE	Y	?	5.6
151 Coh1	F	O		13 I	cohorts	Luke	FALSE	O	?	7.6
152 Coh2	F	O		13 I	cohorts	Luke	FALSE	O	?	7
153 Coh3	F	M		13 I	cohorts	Luke	FALSE	M	?	6.2
154 Coh4	F	M		13 I	cohorts	Luke	FALSE	M	?	6.1
155 Coh5	F	Y		13 I	cohorts	Luke	FALSE	Y	?	5.9
156 Coh6	F	Y		13 I	cohorts	Luke	FALSE	Y	?	5.9
157 Coh7	F	Y		14 I	cohorts	Luke	FALSE	Y	?	5.1
158 Coh8	F	Y		14 I	cohorts	Luke	FALSE	Y	?	4.1

159	Coh9	F	O		14	I	cohorts	Luke	FALSE	O	?	9.1
160	Coh10	F	Y		14	I	cohorts	Luke	FALSE	Y	?	4.8
161	Coh11	F	Y		14	I	cohorts	Luke	FALSE	Y	?	4
162	Coh12	F	Y		14	I	cohorts	Luke	FALSE	Y	?	4.1
163	Coh13	F	O		14	I	cohorts	Luke	FALSE	O	?	8.5
164	Coh14	F	O		14	I	cohorts	Luke	FALSE	O	?	8.9
165	Coh15	F	O		14	I	cohorts	Luke	FALSE	O	?	8.5
166	AC	F	Y		14	P	Size-age	Luke	FALSE	Y	?	5.8
167	AD	F	O		14	P	Size-age	Luke	FALSE	O	?	8.5
168	AE	F	O		14	P	Size-age	Luke	FALSE	O	?	7.5
169	AF	F	Y		15	P	Size-age	Luke	FALSE	Y	?	4.5
170	AG	F	O		15	P	Size-age	Luke	FALSE	O	?	8.2
171	AH	F	O		15	P	Size-age	Luke	FALSE	O	?	7.4
172	AI	F	O		15	P	Size-age	Luke	FALSE	O	?	7.4
173	Sreg	F	M	R	15	P	regen	Luke	FALSE	MR	?	6.1
174	Sun	F	M		15	P	regen	Luke	FALSE	M	?	6.1
175	Treg	F	Y	R	15	P	regen	Luke	FALSE	YR	?	5.3
176	Tun	F	Y		15	P	regen	Luke	FALSE	Y	?	5.3
177	PAreg	F	O	R-A	15	I	regen-long	Luke	FALSE	OR-A	?	7.5
178	PAun	F	O		15	I	regen-long	Luke	FALSE	O	?	7.5
179	PBreg	F	O	R-A	15	I	regen-long	Luke	FALSE	OR-A	?	7.5
180	PBun	F	O		15	I	regen-long	Luke	FALSE	O	?	7.5
181	BA	F	O		16	I	Size-age	Luke	FALSE	O	?	8.3
182	BB	F	O		16	I	Size-age	Luke	FALSE	O	?	8.1
183	BC	F	O		16	I	Size-age	Luke	FALSE	O	?	8.5
184	BD	F	O		16	I	Size-age	Luke	FALSE	O	?	9
185	BE	F	O		16	I	Size-age	Luke	FALSE	O	?	8.4
186	BF	F	O		16	I	Size-age	Luke	FALSE	O	?	8.6
187	BG	F	O		16	I	Size-age	Luke	FALSE	O	?	8.3
188	BH	F	O		16	I	Size-age	Luke	FALSE	O	?	8
189	BI	F	O		16	I	Size-age	Luke	FALSE	O	?	8.2
190	BJ	F	O		16	I	Size-age	Luke	FALSE	O	?	8.1
191	BK	F	O		16	I	Size-age	Luke	FALSE	O	?	8.5
192	BL	F	O		16	I	Size-age	Luke	FALSE	O	?	8.7
193	BM	F	O		17		Size-age	Luke	FALSE	O	?	7.9
194	BN	F	O		17		Size-age	Luke	FALSE	O	?	8.3
195	BO	F	O		17		Size-age	Luke	FALSE	O	?	9
196	BP	F	O		17		Size-age	Luke	FALSE	O	?	7.7
197	BR	F	O		17		Size-age	Luke	FALSE	O	?	8.3
198	BS	F	O		17		Size-age	Luke	FALSE	O	?	8.6
199	BT	F	O		17		Size-age	Luke	FALSE	O	?	9.6
200	BU	F	O		17		Size-age	Luke	FALSE	O	?	7.8
201	LAun	F	O		17		regen-long	Luke	FALSE	O	?	7.2
202	LAreg	F	O	R-A	17		regen-long	Luke	FALSE	OR-A	?	7.2
203	LBun	F	O		17		regen-long	Luke	FALSE	O	?	7.2
204	LBreg	F	O	R-A	17		regen-long	Luke	FALSE	OR-A	?	7.2
205	LCun	F	O		18		regen-long	Luke	FALSE	O	?	6.3
206	LCreg	F	O	R-A	18		regen-long	Luke	FALSE	OR-A	?	6.3
207	LDun	F	O		18		regen-long	Luke	FALSE	O	?	7
208	LDreg	F	O	R-A	18		regen-long	Luke	FALSE	OR-A	?	7
209	LEun	F	M		18		regen-long	Luke	FALSE	M	?	6.1
210	LEreg	F	M	R-A	18		regen-long	Luke	FALSE	MR-A	?	6.1
211	LFun	F	O		18		regen-long	Luke	FALSE	O	?	7.1

212	LFreg	F	O	R-A	18	regen-long	Luke	FALSE	OR-A	?	7.1
213	LGun	F	M		18	regen-long	Luke	FALSE	M	?	6.6
214	LGreg	F	M	R-A	18	regen-long	Luke	FALSE	MR-A	?	6.6
215	BAun	F	M		18	regen	Luke	FALSE	M	?	6.9
216	BAreg	F	M	R	18	regen	Luke	FALSE	MR	?	6.9
217	BBun	F	M		19	regen	Luke	FALSE	M	?	6.9
218	BBreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.9
219	BCun	F	M		19	regen	Luke	FALSE	M	?	6.8
220	BCreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.8
221	BDun	F	M		19	regen	Luke	FALSE	M	?	6.6
222	BDreg	F	M	R	19	regen	Luke	FALSE	MR	?	6.6
223	BEun	F	O		19	regen	Luke	FALSE	O	?	7.3
224	BEreg	F	O	R	19	regen	Luke	FALSE	OR	?	7.3
225	BFun	F	O		19	regen	Luke	FALSE	O	?	7.7
226	BFreg	F	O	R	19	regen	Luke	FALSE	OR	?	7.7
227	BGun	F	O		19	regen	Luke	FALSE	O	?	8.2
228	BGreg	F	O	R	19	regen	Luke	FALSE	OR	?	8.2
229	BHun	F	O		20	regen	Luke	FALSE	O	?	8.8
230	BHreg	F	O	R	20	regen	Luke	FALSE	OR	?	8.8
231	BIun	F	O		20	regen	Luke	FALSE	O	?	6.7
232	BIreg	F	O	R	20	regen	Luke	FALSE	OR	?	6.7
233	BJun	F	O		20	regen	Luke	FALSE	O	?	7.8
234	BJreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.8
235	BKun	F	O		20	regen	Luke	FALSE	O	?	7.3
236	BKreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.3
237	BLun	F	M		20	regen	Luke	FALSE	M	?	6.5
238	BLreg	F	M	R	20	regen	Luke	FALSE	MR	?	6.5
239	BMun	F	O		20	regen	Luke	FALSE	O	?	7.4
240	BMreg	F	O	R	20	regen	Luke	FALSE	OR	?	7.4
241	BNun	F	O		21	regen	Luke	FALSE	O	?	7.5
242	BNreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.5
243	BOun	F	O		21	regen	Luke	FALSE	O	?	7.3
244	BOreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.3
245	BPun	F	O		21	regen	Luke	FALSE	O	?	8.2
246	BPreg	F	O	R	21	regen	Luke	FALSE	OR	?	8.2
247	BQun	F	M		21	regen	Luke	FALSE	M	?	6.6
248	BQreg	F	M	R	21	regen	Luke	FALSE	MR	?	6.6
249	BRun	F	O		21	regen	Luke	FALSE	O	?	7.2
250	BRreg	F	O	R	21	regen	Luke	FALSE	OR	?	7.2
251	BSun	F	M		21	regen	Luke	FALSE	M	?	6.3
252	BSreg	F	M	R	21	regen	Luke	FALSE	MR	?	6.3
253	BTun	F	O		22	regen	Luke	FALSE	O	?	7.2
254	BTreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.2
255	BUun	F	O		22	regen	Luke	FALSE	O	?	7.2
256	BUreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.2
257	BVun	F	M		22	regen	Luke	FALSE	M	?	6.9
258	BVreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.9
259	BWun	F	M		22	regen	Luke	FALSE	M	?	6.2
260	BWreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.2
261	BXun	F	M		22	regen	Luke	FALSE	M	?	6.5
262	BXreg	F	M	R	22	regen	Luke	FALSE	MR	?	6.5
263	BYun	F	O		22	regen	Luke	FALSE	O	?	7.5
264	BYreg	F	O	R	22	regen	Luke	FALSE	OR	?	7.5

265	BZun	F	M		23	regen	Luke	FALSE	M	?	6.3
266	BZreg	F	M	R	23	regen	Luke	FALSE	MR	?	6.3
267	CAun	F	O		23	regen	Luke	FALSE	O	?	7.6
268	CAreg	F	O	R	23	regen	Luke	FALSE	OR	?	7.6
269	CBun	F	O		23	regen	Luke	FALSE	O	?	7.1
270	CBreg	F	O	R	23	regen	Luke	FALSE	OR	?	7.1
271	CCun	F	M		23	regen	Luke	FALSE	M	?	6.2
272	CCreg	F	M	R	23	regen	Luke	FALSE	MR	?	6.2

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