

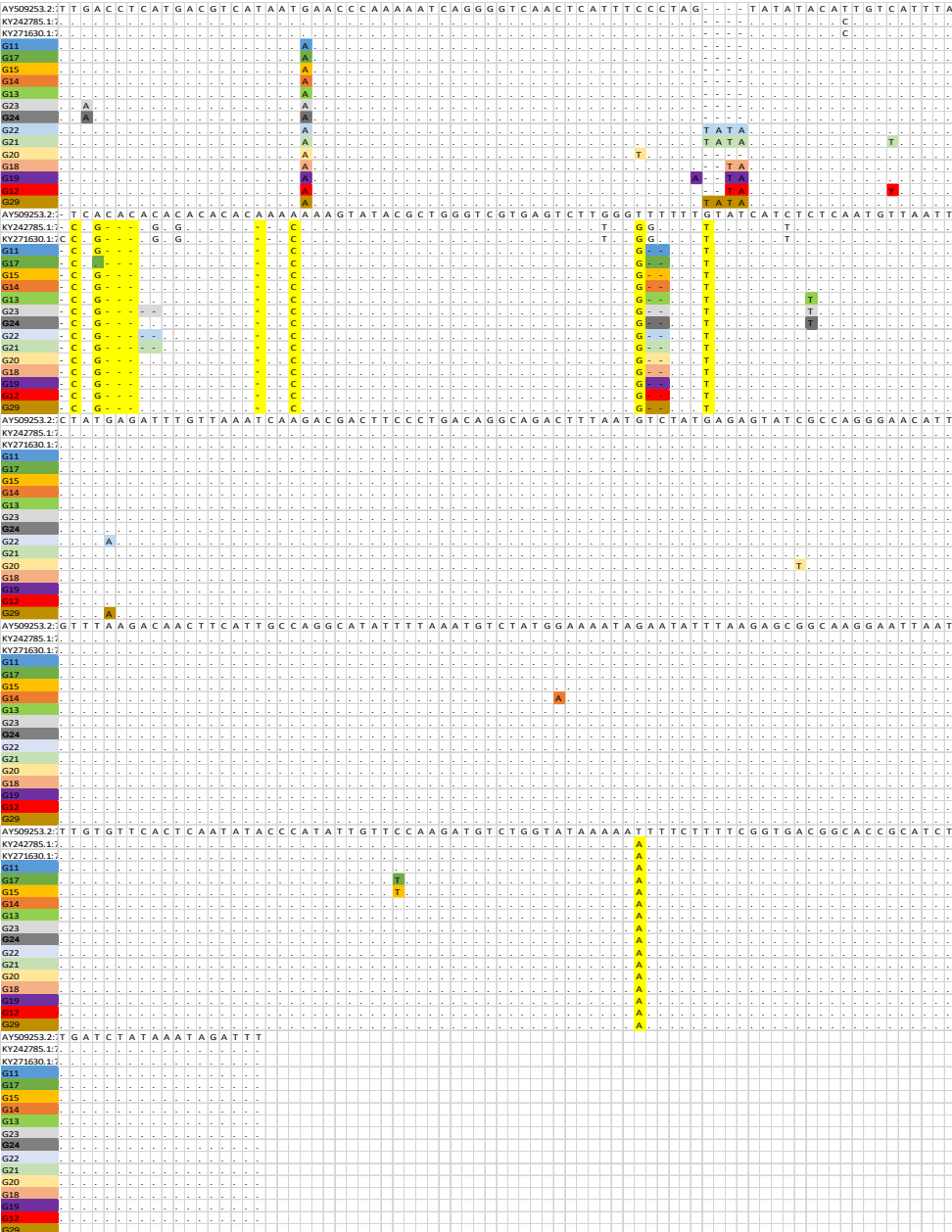
Table 1. Variants by genomic region. Not all samples yielded sequence for each region. Variants unique to a river are shown in red font highlighted in yellow.

¹ Total number of samples

² Total number of available sequences from GR-HWY-TAS

DNA or protein sequence	Georges River (n=60) ¹	Hawkesbury River (n=38)	Tasmania (n=2)
R1 (50-36-1) ²	G1 G2 G4 G7	G7	G6
R2 (38-37-2)	G9	G8 G9	G9
R3 (56-38-2)	G10	G10	G10
R4 (50-37-0)	G11 G12 G13 G14 G15 G17 G18 G19 G20 G21 G22 G23 G24 G29	G11	na
R5 (12-29-1)	G32 G33 G34	G31	G34
R6 (51-38-2)	G35 G36 G37	G36 G37	G37
Concatenated R1-R2-R4- R6 (27-34-0)	V2 V3 V4 V5 V7 V8 V9 V10 V11 V12	V1 V6	na
Protein prediction R1- R2-R6 (27-34-0)	ADH	ACH	na

Fig 4



DNA alignment

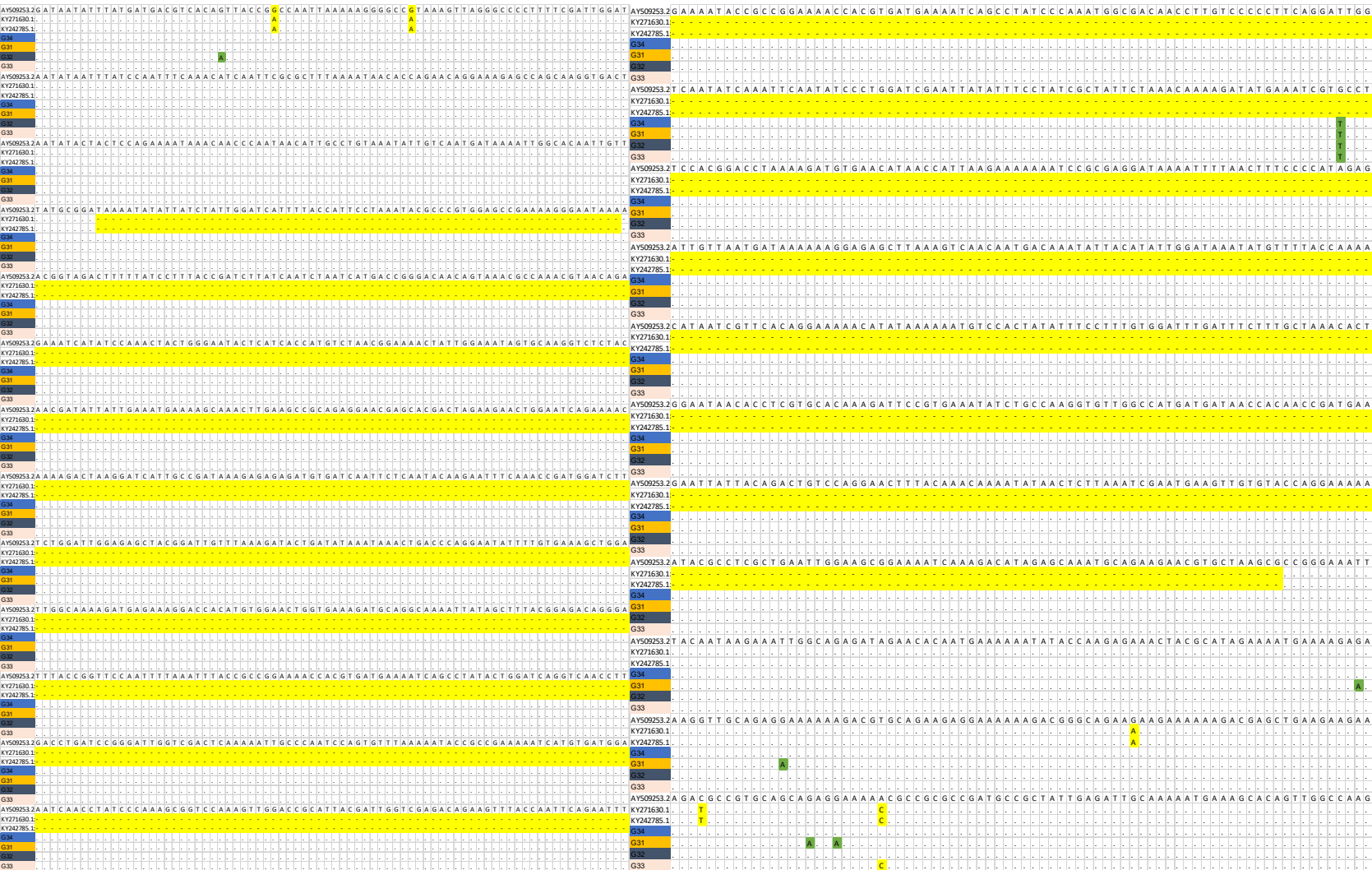
R4 (n=87): 14 groups

In yellow=mutations in common with microvariants

Common substitution A instead of G + 2 deletion on 2T

- G11 (n=56)= only mutations in common with microvariants
- G17 (n=1)= + 1 deletion on A + 1 substitution T instead of C
- G15 (n=2)= substitution T instead of C
- G14 (n=2)= substitution A instead of G
- G13 (n=5)= substitution T instead of C
- G23 (n=2)=substitution A instead of G+ 5 deletion instead of 3 + substitution T instead of C
- G24 (n=1)= substitution A instead of G+ substitution T instead of C
- G22(n=1) = insertion TATA+ 5 deletions instead of 3+ substitution A instead of G
- G21 (n=3)=insertion TATA+ substitution C instead of T+ 5 deletions instead of 3
- G20 (n=4)= subst T instead of C, subst T instead of C
- G18 (n=4)=insertion TA
- G19 (n=1)= subst A instead of G+ insertion TA
- G12 (n=4)= insertion TA + substitution T et C (Y) instead of C
- G29 (n=1)= insertion TATA+ subst A instead of G

Fig 5



DNA alignment

R5 (n=42): 4 groups

In yellow=mutations in common with microvariants

Common Substitution T instead of G

G 34 (n=11): only common mutation

G 31 (n=29): substitution A instead of G+ substitution A instead of G+ substitution A instead of G

G 32 (n=1): substitution A instead of G

G 33 (n=1): substitution C instead of A

