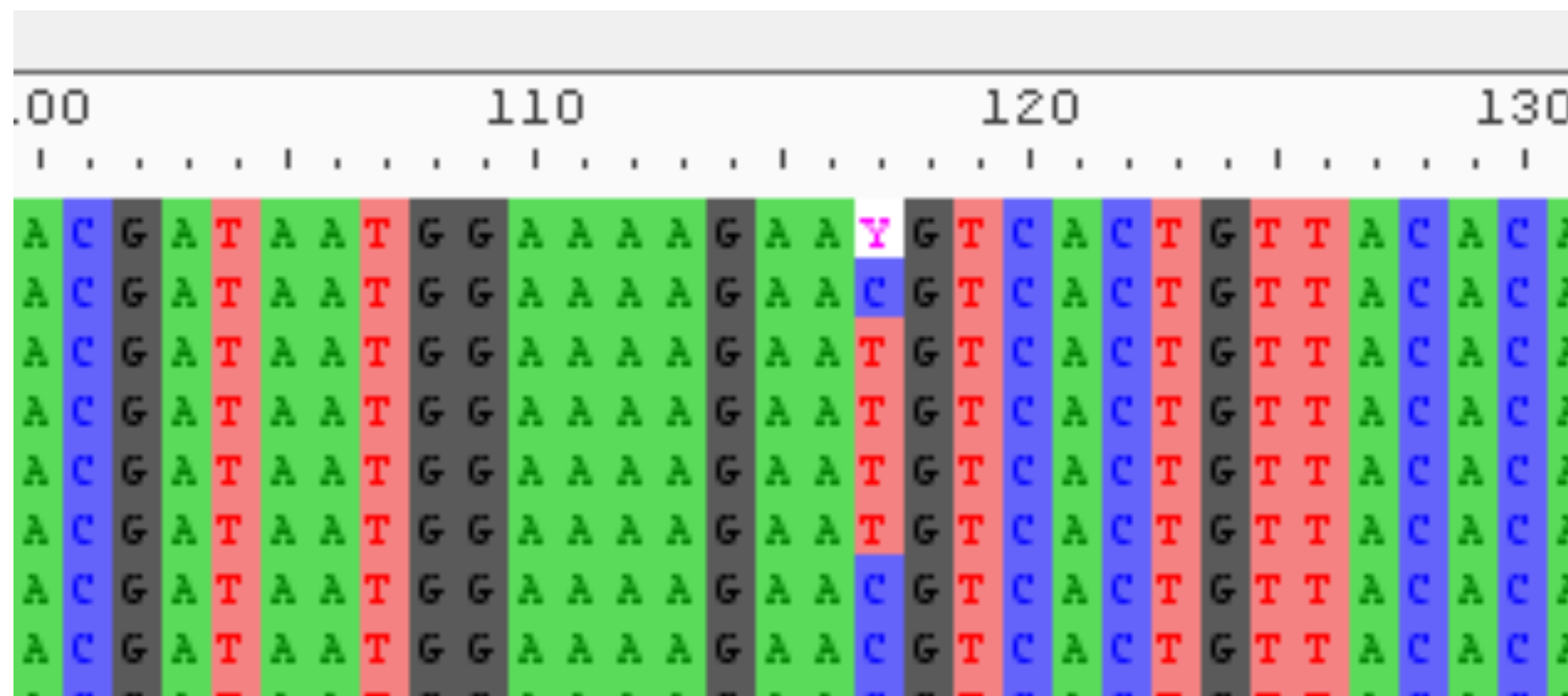


Ambiguous bases can disrupt selection analyses



Ambiguous

- **N** Any nucleotide (A or C or G or T or U)
- **R** Purine (A or G)
- **Y** Pyrimidine (T or C)
- **K** Keto (G or T)
- **M** Amino (A or C)
- **S** Strong interaction (3 H bonds) (G or C)
- **W** Weak interaction (2 H bonds) (A or T)
- **B** Not A (C or G or T)
- **D** Not C (A or G or T)
- **H** Not G (A or C or T)
- **V** Not T or U (A or C or G)

Methods to resolve this: Convert Y to (C or T)

	120	130
lcl consensus	A A A G A A Y G T C A C T G T T A C A C	
gb OQ963804.1 [organism=Ir	A A A G A A C G T C A C T G T T A C A C	
gb OQ958820.1 [organism=Ir	A A A G A A T G T C A C T G T T A C A C	
gb OQ958812.1 [organism=Ir	A A A G A A T G T C A C T G T T A C A C	
gb OQ958804.1 [organism=Ir	A A A G A A T G T C A C T G T T A C A C	
gb OQ961564.1 [organism=Ir	A A A G A A T G T C A C T G T T A C A C	
gb OQ963300.1 [organism=Ir	A A A G A A C G T C A C T G T T A C A C	
gb OQ961548.1 [organism=Ir	A A A G A A C G T C A C T G T T A C A C	
gb OQ961556.1 [organism=Ir	A A A G A A C G T C A C T G T T A C A C	

Id consensus	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ963804.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ958820.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ958812.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ958804.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ961564.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ963300.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T
gb OQ961548.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T

lcl consensus	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ963804.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ958820.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ958812.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ958804.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ961564.1 [organism=Ir	A	A	A	G	A	A	T	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ963300.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ961548.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G
gb OQ961556.1 [organism=Ir	A	A	A	G	A	A	C	G	T	C	A	C	T	G	T	T	A	C	A	C	A	T	G