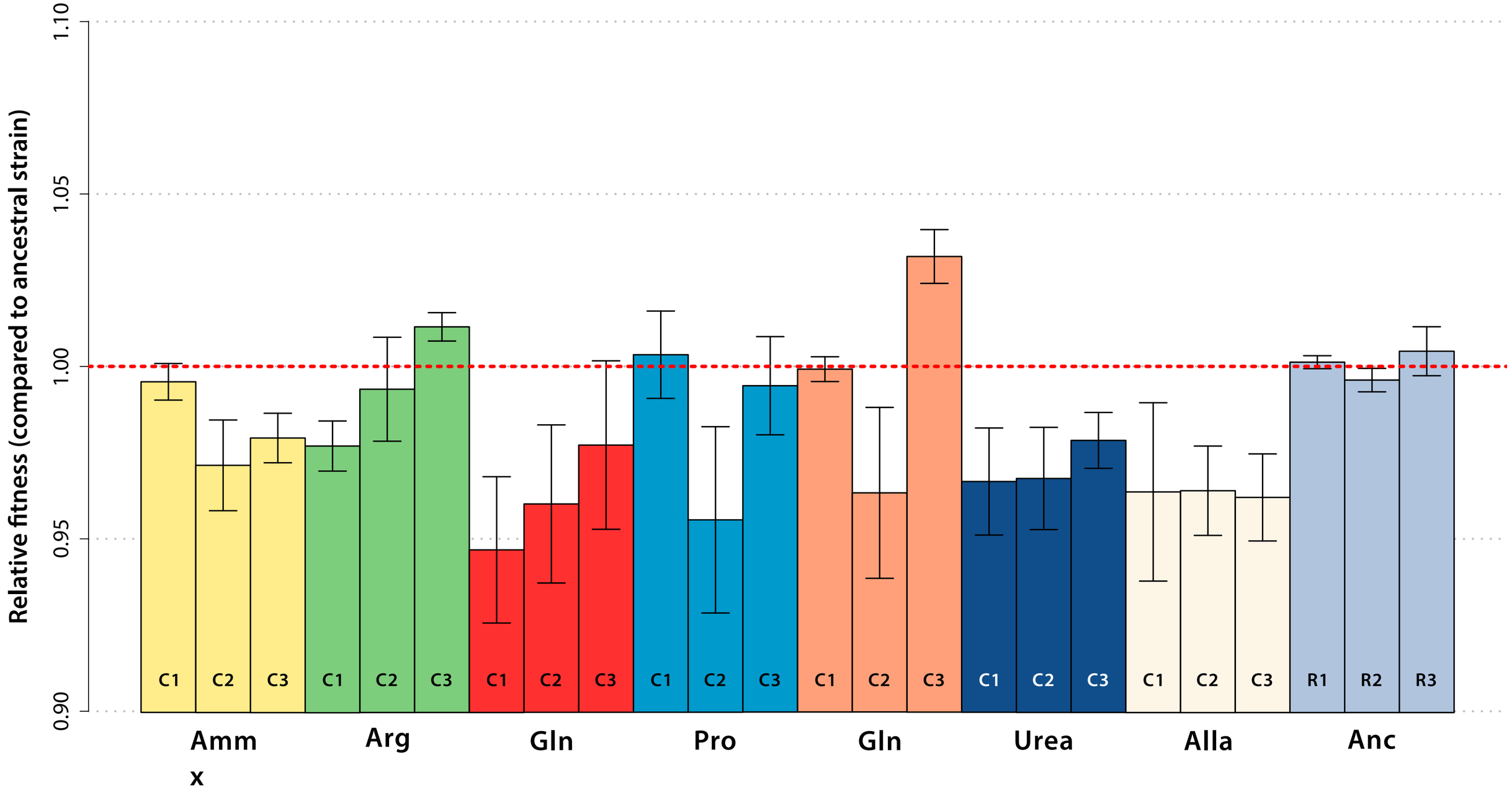
Relative fitness (compared to ancestral strain)
1.10
1.05
1.00
0.95
0.90
C1
C2
C3
C1
C2
C3
C1
C2
C3
C1
C2
C3
C1
C2
C3
C1
C2
C3
C1
C2
C3
R1
R2
R3
Amm
x
Arg
Gln
Pro
Gln
Urea
Alla
Anc