

Average EC Fitness (per cycle)

Diploid High-fitness Diploid Diploid w/ add'l mutation IRA1 nonsense IRA1 missense IRA2 GPB1 GPB2 PDE2 Other RAS/PKA pathway TOR/SCH9 pathway other adaptive

C

Average Z Score

Subtle

Strong

Relative Fitness

IRA1 nonsense

GPB2

PDE2

Diploid

Batches of the Evolution Condition

Condition

2σ