*
*
*
*
NS
*
0.0
−10
−20
−30
Fitness Effect (%)
diploid ancestors
pgm1-T231A
pgm1-G514C
pgm1-T521K
pgm1-R64C
pgm1-D295N
alg9-S230R
evolved (pACT1-sec53-V238M)
reconstructed (pACT1-sec53-V238M)
pACT1-SEC53-WT