chemotaxis (110) 20 -20 **-** AX4 **-** AX4 tgrB1 = tgrC1 = rapgapB = rapgapB = tgrB1 = rapgapB = tgrC1 = AX4 L846F 16 16 hours of AX4 development 12 12 -8 -8 4 -4 -8 12 16 20 8 12 16 20 hours of mutant development