noagg_ripple (541) 20 20 strain AX4 strain rapgapB - tgrB1 tgrB1rapgapB - tgrC1 -AX4 L846F B1L846F tgrC1 rapgapB ⁻ 16 16 hours of AX4 development 12 12 -8 -8 4 -4 + 8 12 16 20 8 12 16 20 4 hours of mutant development