

	wt	<i>ASH1*ACE2*</i> mothers	<i>ASH1* ACE2*</i> daughters
Size-independent noise in D	0.79 ± 0.10	0.89 ± 0.16	0.65 ± 0.09
Size-independent noise in gly/eth	0.57 ± 0.08	0.48 ± 0.08	0.45 ± 0.08

Table S5 Size-independent noise is similar in daughters and pseudo-daughters. Size-independent noise was estimated as the error about the binned data as described in Di Talia et al. (2007) Nature, 448, 947-51. Similar analysis cannot be performed for mothers and pseudo-mothers because the interval T_1 is on average so short that the variability is dominated by the measurement error.