

Table S2 F58D2.1 and paralogs (*gadr-1* to *-6*) are additive, redundant gastrulation genes

Genes in Pool						n	Gastrulation Defects (%)
F58D2.1	C33A12.12	F47D12.5	W06A11.2	Y71A12B.17A	F47G4.2	55	49
	C33A12.12	F47D12.5	W06A11.2	Y71A12B.17A	F47G4.2	51	14
F58D2.1		F47D12.5	W06A11.2	Y71A12B.17A	F47G4.2	30	23
F58D2.1	C33A12.12		W06A11.2	Y71A12B.17A	F47G4.2	12	25
F58D2.1	C33A12.12	F47D12.5		Y71A12B.17A	F47G4.2	18	33
F58D2.1	C33A12.12	F47D12.5	W06A11.2		F47G4.2	51	16
F58D2.1	C33A12.12	F47D12.5	W06A11.2	Y71A12B.17A		39	36
	C33A12.12	F47D12.5	W06A11.2	Y71A12B.17A		21	10
F58D2.1		F47D12.5	W06A11.2	Y71A12B.17A		38	5
F58D2.1	C33A12.12		W06A11.2	Y71A12B.17A		88	32
F58D2.1	C33A12.12	F47D12.5		Y71A12B.17A		47	11
F58D2.1	C33A12.12	F47D12.5	W06A11.2			43	14
	C33A12.12		W06A11.2	Y71A12B.17A		44	14
F58D2.1			W06A11.2	Y71A12B.17A		68	35
F58D2.1	C33A12.12			Y71A12B.17A		17	6
F58D2.1	C33A12.12		W06A11.2			23	13
			W06A11.2	Y71A12B.17A		19	11
F58D2.1				Y71A12B.17A		45	18
F58D2.1			W06A11.2			17	12

The six genes from Table S1 with the most specific effects on gastrulation were targeted together here by injecting pooled dsRNAs. The sequences of these genes are sufficiently divergent to make cross-hybridization of diced dsRNAs to other targets in the pool unlikely. Sub-pooling followed, injecting all combinations of one less dsRNA than in the previous round, after removing the dsRNA whose removal had the smallest effect on penetrance in the previous round. Genes are color-coded as in Table S1.