

# Supporting Information

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Table S1. Effect of *ddm1-2* mutant on female meicyte recombination

	Seed phenotype					Recombinant (%)
	Both	None	Red	Green	Total	
BC1 male meicyte	Female meicyte (WT × Col3-4/20)					
WT1	25	17	3	4	49	
WT2	30	32	1	4	67	
WT3	13	14	0	1	28	
WT4	5	7	1	1	14	
WT5	109	96	6	11	222	
<i>ddm1-2_1</i>	7	8	1	1	17	
<i>ddm1-2_2</i>	16	14	2	0	32	
<i>ddm1-2_3</i>	18	24	2	3	47	
<i>ddm1-2_4</i>	11	15	0	0	26	
Total	234	227	16	25	502	8.2
BC1 male meicyte	Female meicyte ( <i>ddm1-2</i> × Col3-4/20)					
WT1	15	9	4	3	31	
WT2	11	13	2	2	28	
WT3	18	17	5	2	42	
<i>ddm1-2_1</i>	51	44	13	6	114	
<i>ddm1-2_2</i>	4	8	0	2	14	
<i>ddm1-2_3</i>	12	7	3	4	26	
<i>ddm1-2_4</i>	6	4	1	2	13	
<i>ddm1-2_5</i>	22	22	0	6	50	
<i>ddm1-2_6</i>	10	10	0	0	20	
<i>ddm1-2_7</i>	4	3	2	1	10	
<i>ddm1-2_8</i>	20	20	3	3	46	
<i>ddm1-2_9</i>	38	30	4	9	81	
<i>ddm1-2_10</i>	7	5	1	1	14	
<i>ddm1-2_11</i>	21	16	1	4	42	
<i>ddm1-2_12</i>	2	5	2	0	9	
Total	241	213	41	45	540	16

**Table S2. Effect of *ddm1-2* mutant on male meiocyte recombination**

	Seed phenotype					Recombinant (%)
	Both	None	Red	Green	Total	
BC1 female meiocyte			Male meiocyte (WT × Col3-4/20)			
WT1	4	6	5	1	16	
WT2	23	20	8	7	58	
WT3	4	3	1	1	9	
WT4	7	6	3	0	16	
WT5	15	13	4	1	33	
WT6	18	19	3	5	45	
WT7	14	12	3	3	32	
WT8	7	10	3	2	22	
WT9	12	7	3	5	27	
WT10	15	8	4	5	32	
WT11	9	7	2	1	19	
<i>ddm1-2_1</i>	11	6	3	4	24	
<i>ddm1-2_2</i>	13	10	3	3	29	
<i>ddm1-2_3</i>	13	12	4	4	33	
<i>ddm1-2_4</i>	11	13	2	6	32	
<i>ddm1-2_5</i>	14	16	2	5	37	
Total	190	168	53	53	464	22.8
BC1 female meiocyte			Male meiocyte ( <i>ddm1-2</i> × Col3-4/20)			
WT1	26	18	9	11	64	
WT2	17	10	10	6	43	
WT3	18	13	8	7	46	
WT4	21	22	5	8	56	
WT5	8	9	4	5	26	
WT6	10	11	7	4	32	
WT7	5	6	3	2	16	
<i>ddm1-2_1</i>	6	5	5	3	19	
<i>ddm1-2_2</i>	5	9	3	4	21	
<i>ddm1-2_3</i>	6	5	5	4	20	
<i>ddm1-2_4</i>	16	12	9	8	45	
<i>ddm1-2_5</i>	10	10	3	6	29	
<i>ddm1-2_6</i>	17	24	12	10	63	
<i>ddm1-2_7</i>	12	12	3	7	34	
<i>ddm1-2_8</i>	16	11	3	8	38	
Total	193	177	89	93	552	33

**Table S3. Effect of *met1-3* mutant on female meiocyte recombination**

	Seed phenotype					Recombinant (%)
	Both	None	Red	Green	Total	
BC1 male meiocyte			Female meiocyte (WT × Col3-4/20)			
WT1	114	103	7	12	236	
WT2	30	32	1	4	67	
WT3	25	17	3	4	49	
<i>met1-3_1</i>	20	21	3	2	46	
<i>met1-3_2</i>	10	8	1	2	21	
Total	199	181	15	24	419	9.3
BC1 male meiocyte			Female meiocyte ( <i>met1-3</i> × Col3-4/20)			
WT1	10	12	2	2	26	
WT2	23	37	2	0	62	
WT3	5	4	1	0	10	
<i>met1-3_1</i>	35	29	7	6	77	
<i>met1-3_2</i>	28	19	4	4	55	
<i>met1-3_3</i>	40	30	5	3	78	
<i>met1-3_4</i>	44	47	4	7	102	
<i>met1-3_5</i>	26	22	0	1	49	
Total	211	200	25	23	459	10.5

