

C x C N _{cross} = 17 N _{total} = 136	0.90 ± 0.02									
C x M N _{cross} = 5 N _{total} = 38	177.91 16.0 <0.0001	0.05 ± 0.01								
M x C N _{cross} = 4 N _{total} = 34	176.49 17.85 <0.0001	1.01 0.02 1.0	0.05 ± 0.01							
M x M N _{cross} = 2 N _{total} = 13	0.55 -1.39 0.90	3.1e-03 -20.16 <0.0001	3.1e-03 -16.92 <0.0001	0.94 ± 0.02						
M x T										
T x M N _{cross} = 4 N _{total} = 26	757.55 15.68 <0.0001	4.26 5.07 <0.0001	4.29 3.06 0.057	1.38e03 20.24 <0.0001		0.01 ± 0				
T x T N _{cross} = 8 N _{total} = 57	2.35 2.45 0.25	0.01 -10.16 <0.0001	0.01 -10.47 <0.0001	4.29 3.04 0.06		3.1e-03 -14.35 <0.0001	0.79 ± 0.05			
T x C N _{cross} = 9 N _{total} = 65	14.69 12.26 <0.0001	12.11 6.40 <0.0001	0.08 -7.98 <0.0001	0.04 -7.35 <0.0001		51.55 10.86 <0.0001	0.16 -6.68 <0.0001	0.38 ± 0.05		
C x T N _{cross} = 5 N _{total} = 29	15.77 9.98 <0.0001	0.09 -6.57 <0.0001	0.09 -6.06 <0.0001	28.80 7.20 <0.001		0.02 -8.46 <0.0001	0.15 -8.53 <0.0001	1.07 0.20 1.0	0.36 ± 0.06	
	C x C	C x M	M x C	M x M	M x T	T x M	T x T	T x C	C x T	

	Wald χ^2	df	p
Maternal Species	376.71	2	< 2.2e-16
Paternal Species	293.33	2	< 2.2e-16
Maternal*Paternal	10162.86	3	< 2.2e-16

Table S14. Pairwise differences in F1 pollen viability assessed using a post-hoc Tukey method. Cross types involved *M. caespitosa* (C), *M. minor* (M), and *M. tilingii* (T), with the maternal parent in each cross listed first. N_{cross} = number of unique maternal family combinations per cross type; N_{total} = total number of flowers scored for viable pollen per cross type. Values on diagonal are lsmeans +/- standard error. In each box below the diagonal, the uppermost value is the model estimate, the middle value is the z-ratio, and the bottom value is the P-value. Upper right corner: GLMM type III ANOVA of F1 pollen viability with Wald χ^2 values for “Maternal Species” and “Paternal Species” (fixed effects) and “Maternal*Paternal” species interaction effect. Shades of light gray denotes a $P < 0.05$, medium gray denotes a $P < 0.01$, and dark gray denotes a $P < 0.001$.