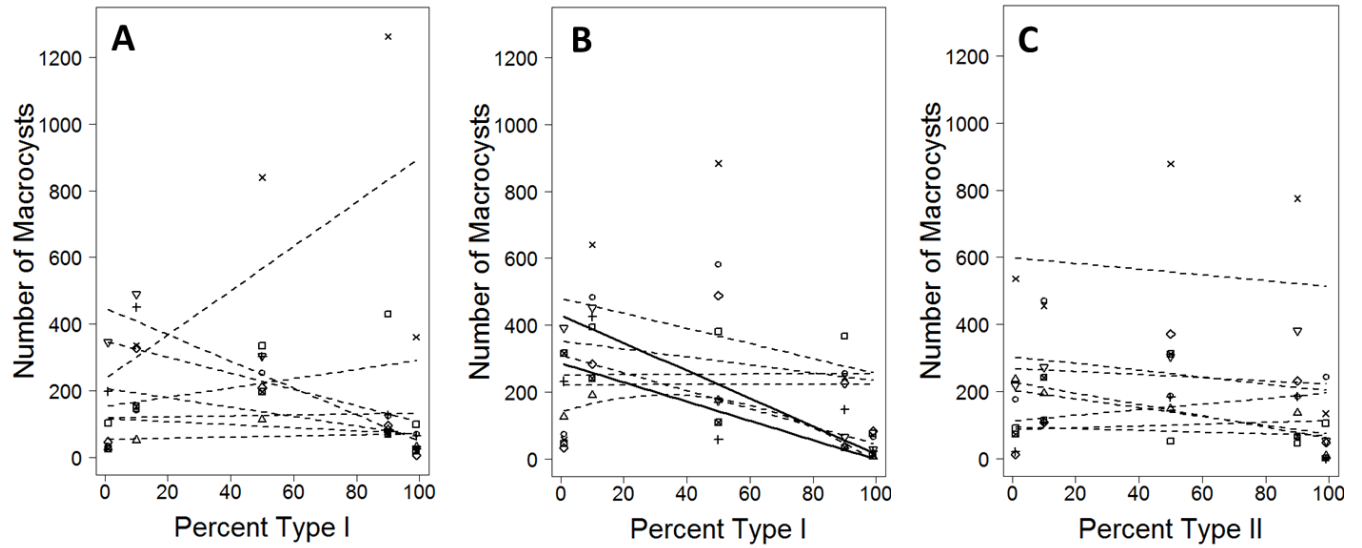


**Figure S1.** Differential investment to macrocyst production is rare. Panels represent macrocyst production between A) Type I and Type II clones, B) Type I and Type III clones, and C) Type II and Type III clones. Symbols represent macrocyst production between individual clone pairs. Lines are best-fit regression curves for individual clone pairs. Dashed lines show nonsignificant relationships, solid lines show significant relationships.



**Table S1.** List of *Dictyostelium discoideum* clones used in the experiments to assay differential contribution to macrocyst production. Dicty Stock Center identification numbers are in parentheses.

Clone Name	Population	Mating Type	Experiment Group
HD13B1	Texas	I	A
HD45C1	Texas	II	A
HD48B1	Texas	III	A
HD35D1	Texas	I	B
HD38C1	Texas	II	B
HD45D1	Texas	III	B
HD48D1	Texas	I	C
HD32C1	Texas	II	C
HD49B1	Texas	III	C
17S 10.1	Virginia	I	D
14S 6.1	Virginia	II	D
19S 8.2	Virginia	III	D
V315B1	Virginia	I	E
V331B1	Virginia	II	E
V341C2	Virginia	III	E
NC59.2	North Carolina	I	F
NC34.1	North Carolina	II	F
NC63.2	North Carolina	III	F
NC60.2	North Carolina	I	G
NC66.2	North Carolina	II	G
NC75.2	North Carolina	III	G
NC105.1	North Carolina	I	H
NC58.1	North Carolina	II	H
NC61.1	North Carolina	III	H
WS205	Wisconsin	I	I
IR1	Wisconsin	II	I
NC4 (DBS0302497)	North Carolina	I	N1
NC4 (DBS0235761)	North Carolina	I	N2
NC4 (DBS0235763)	North Carolina	I	N3
NC4 (DBS0235759)	North Carolina	I	N4
NC4 (DBS0235762)	North Carolina	I	N5
V12 (DBS0302498)	Virginia	II	V1
V12 (DBS0235789)	Virginia	II	V2
V12 (DBS0235788)	Virginia	II	V3
V12 (DBS0235787)	Virginia	II	V4
V12 (DBS0235786)	Virginia	II	V5

**Table S2a.** Tests for mating compatibility (macrocyt production) between Texas clones.

		Mating Type II		Mating Type III		
		HD5A1	HD13A1	HD48C1	HD50C1	HD41C1
Type I	HD40D1	No	No	No	Yes	No
	HD49C1	No	No	No	No	No
	HD24D1	No	No	No	No	Yes
Type II	HD5A1	-	-	No	No	No
	HD13A1	-	-	No	No	No

**Table S2b.** Additional tests for mating compatibility (macrocyt production) between Texas clones.

		Mating Type II				Mating Type III		
		HD1D1	HD32C1	HD45C1	HD38C1	HD45D1	HD49B1	HD48B1
Type I	HD45B1	No	Yes	Yes	-	Yes	Yes	Yes
	HD31B1	No	Yes	Yes	-	Yes	Yes	Yes
	HD48D1	No	No	No	-	No	No	Yes
	HD13B1	-	-	Yes	-	-	-	Yes
	HD35D1	-	-	-	Yes	-	-	Yes
Type II	HD1D1	-	-	-	-	Yes	No	No
	HD32C1	-	-	-	-	Yes	Yes	Yes
	HD45C1	-	-	-	-	Yes	Yes	Yes
	HD38C1	-	-	-	-	-	-	Yes

**Table S3.** Tests for mating compatibility (macrocyt production) between Virginia clones.

		Mating Type II				Mating Type III				
		V330C	V331B1	V327A2	V55B1	V331D2	V341C2	V335B1	V303C1	V319B1
Type I	V331C1	Yes	No	Yes	No	Yes	Yes	Yes	No	No
	V335C1	No	No	No	No	Yes	Yes	No	No	No
	V315B1	No	Yes	Yes	No	No	Yes	Yes	No	No
	V317D1	No	No	No	No	Yes	Yes	Yes	No	No
Type II	V330C	-	-	-	-	Yes	Yes	No	No	No
	V331B1	-	-	-	-	No	Yes	No	No	No
	V327A2	-	-	-	-	Yes	Yes	No	No	No
	V55B1	-	-	-	-	No	No	No	No	No

**Table S4a.** Tests for mating compatibility (macrocyt production) between North Carolina clones.

		Mating Type II			Mating Type III	
		NC32B1	NC28D1	NC34	NC85.2	NC34.1
Type I	NC29E1	No	No	No	No	No
	NC26L1	No	No	No	No	No
	NC21D1	No	No	No	No	No
	NC98.1	No	No	No	No	No
	NC28E1	No	Yes	No	No	No
	NC22J1	No	No	No	No	No
	NC105.1	No	No	No	No	No
Type II	NC32B1	-	-	-	No	No
	NC28D1	-	-	-	Yes	No
	NC34	-	-	-	Yes	No

**Table S4b.** Additional tests for mating compatibility (macrocyt production) between North Carolina clones.

		Mating Type II			Mating Type III		
		NC66.2	NC34.1	NC58.1	NC75.2	NC63.2	NC61.1
Type I	NC60.2	Yes	Yes	Yes	Yes	Yes	Yes
	NC59.2	Yes	Yes	Yes	Yes	Yes	Yes
	NC105.1	Yes	Yes	Yes	Yes	Yes	Yes
Type II	NC66.2				Yes	Yes	Yes
	NC34.1				Yes	Yes	Yes
	NC58.1				Yes	Yes	Yes

**Table S5.** Tests for mating compatibility (macrocyt production) between different clones of NC4 and V12 and their unique strain ID (beginning with “DBS”).

		Mating Type II						
		V12-M2 DBS0302498	V12 DBS0235789	V12-M2 DBS0235788	V12-H DBS0235787	V12 DBS0235786	V12 DBS0235785	V12 DBS0235784
Mating Type I	NC4 DBS0302497	Yes	Yes	Yes	Yes	Yes	Yes	No
	NC4 DBS0235761	Yes	Yes	Yes	Yes	Yes	Yes	No
	NC4 DBS0235763	Yes	No	Yes	Yes	Yes	Yes	No
	NC4 DBS0235759	Yes	Yes	Yes	Yes	Yes	No	No
	NC4 DBS0235762	Yes	Yes	Yes	Yes	Yes	Yes	No
	NC4 DBS0235760	No	No	No	No	No	No	Yes
	NC4 DBS0235764	No	No	No	No	Yes	No	No
	NC4 DBS0304666	No	No	No	No	No	No	Yes