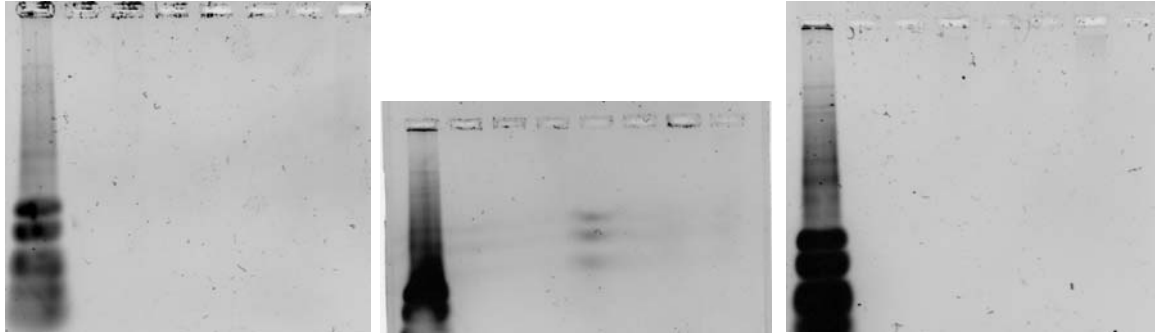


Key to gels

I used 10ul of the amount in each PCR tube. I have not yet run the rest of the F3H-4 primer set or the IFS-7 set. Since we are seeing at best a faint smear in some of the lanes, we are going to try some other optimization before pursuing this.

Note that the first three gels don't have anything useful for analysis (the second one seems to show some PCR marker contamination in lane 5). I have put thumbnails of them here for comparison. The fourth gel is better, a thumbnail is included for discussion purposes and it will be posted.



Gel 1

Gel 2

Gel 3

Gel 1

Lane1	2	3	4	5	6	7	8
PCR ladder	Gp I F3H2 Soy	Gp I F3H2 Phas.	Gp I F3H2 NegCtrl	Gp II F3H2 Soy	Gp II F3H2 Phas.	Gp II F3H2 NegCtrl	Gp III F3H2 Soy

Gel 2

Lane1	2	3	4	5	6	7	8
PCR ladder	Gp III F3H2 Phas.	Gp III F3H2 NegCtrl	Gp IV F3H2 Soy	Gp IV F3H2 Phas	Gp IV F3H2 NegCtrl	Gp V F3H2 Soy	Gp V F3H2 Phas

Gel 3

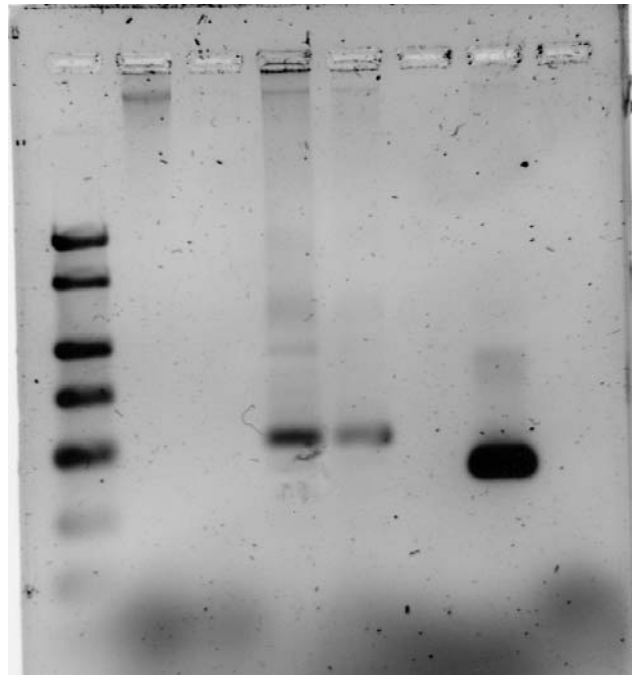
Lane1	2	3	4	5	6	7	8
PCR ladder	Gp V F3H2 NegCtrl	Gp III F3H4 Soy	Gp III F3H4 Phas	Gp III F3H4 NegCtrl	Gp IV F3H4 Soy	Gp IV F3H4 Phas	Gp IV F3H4 NegCtrl

Gel 4

Re-precipitated Tubulin products, using primers designed for a Phaseolus gene, soy was included. The XS/KS group DNA was run on a separate gel (not shown) which did not show products. Note that I did not run the negative controls in the interest of saving space. G.T. is Glycine –tubulin test with phaseolus primers and P.t. is Phaseolus-tubuling test with phaseolus primers. I used 5ul of the amount in each tube.

Note the AL has a very high mw band in the G.t. lane (lane 2) as does TW/JY in lane 4 (also the G.t. lane).

TW/JY have a band in both the Glycine and Phaseolus lanes (but I believe there was sample mixing so this may reflect that event). AB/MB have a band in the Phaseolus lane, and it is slightly lower in size. I wonder if perhaps the labels got flipped. If so their Phaseolus did give a product but it is slight lower in mw than in the TW variety, which is interesting in itself.



PCR size markers: 2000, 1500, 1000, 750, 300, 150, 50.

Initials are on top, sample type on bottom in descriptions.

Lane1	2	3	4	5	6	7	8
PCR ladder	AL G.t.	AL P.t.	TW/JY G.t.	TW/JY P.t.	AB/MB G.t.	AB/MB P.t.	JS/DT P ₂ .t.