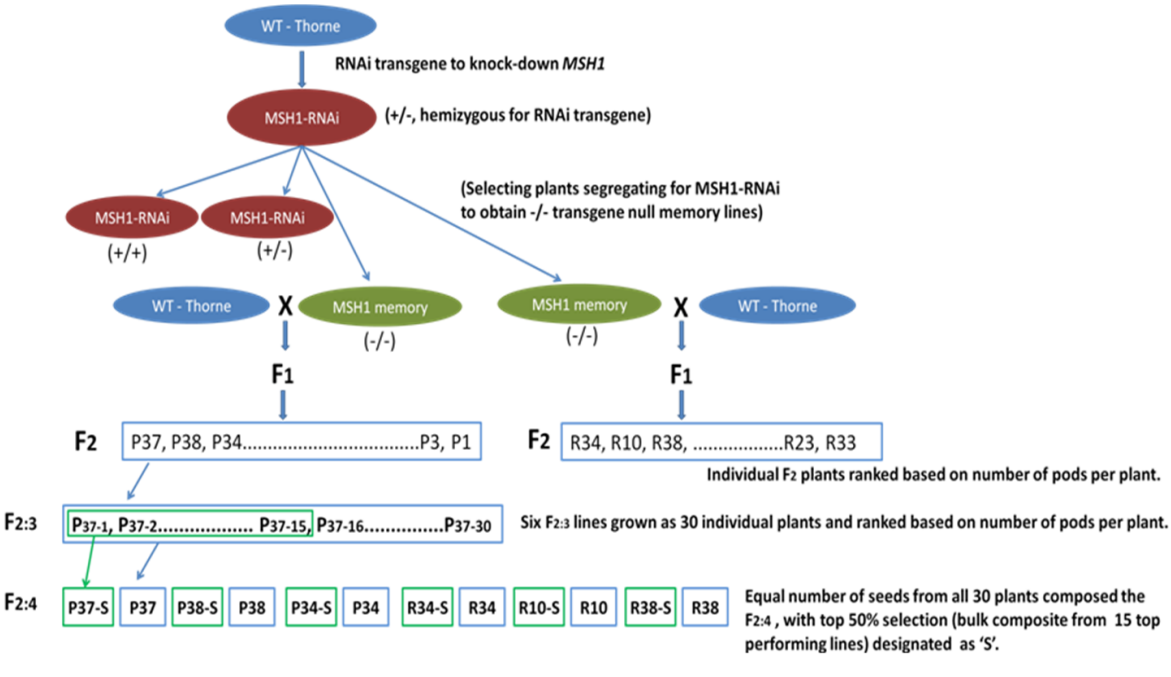
WT - Thorne
RNAi transgene to knock-down MSH1
MSH1-RNAi
(+/-, hemizygous for RNAi transgene)
(Selecting plants segregating for MSH1-RNAi to obtain -/- transgene null memory lines)
MSH1-RNAi
(+/+)
MSH1-RNAi
(+/-)
WT - Thorne
X
MSH1 memory
(-/-)
MSH1 memory
(-/-)
X
WT - Thorne
F1
F1
F2
P37, P38, P34.....P3, P1
F2
R34, R10, R38, ...R23, R33
Individual F2 plants ranked based on number of pods per plant.
F2:3
P37-1, P37-2..... P37-15, P37-16.....P37-30
Six F2:3 lines grown as 30 individual plants and ranked based on number of pods per plant.
F2:4
P37-S
P37
P38-S
P38
P34-S
P34
R34-S
R34
R10-S
R10
R38-S
R38
Equal number of seeds from all 30 plants composed the F2:4 , with top 50% selection (bulk composite from 15 top performing lines) designated as 'S'.