

Supplementary Table S1. *Agrobacterium rhizogenes*-mediated transformation efficiency of *Brassica juncea* lines 50# and 89#

First replicate												
Genotype	Explant	Rooting explants	Positive explants	Total number of roots	Number of red roots	Rooting rate	Positive root formation rate	Root segment explants	Number of calli	Number of calli with shoots	Callus induction rate	Shoot regeneration rate
89#	72	53	19	144	32	73.61%	22.22%	38	32	5	84.21%	15.63%
93#	96	82	71	176	65	85.42%	36.93%	40	36	7	90.00%	19.44%
Second replicate												
Genotype	Explant	Rooting explants	Positive explants	Total number of roots	Number of red roots	Rooting rate	Positive root formation rate	Root segment explants	Number of calli	Number of calli with shoots	Callus induction rate	Shoot regeneration rate
89#	32	27	19	157	55	84.38%	35.03%	26	23	7	88.46%	30.43%
93#	29	23	28	135	68	79.31%	50.37%	29	26	6	89.66%	23.08%
Third replicate												
Genotype	Explant	Rooting explants	Positive explants	Total number of roots	Number of red roots	Rooting rate	Positive root formation rate	Root segment explants	Number of calli	Number of calli with shoots	Callus induction rate	Shoot regeneration rate
89#	34	18	20	104	24	52.94%	23.08%	31	30	13	96.77%	43.33%
93#	16	14	13	60	28	87.50%	46.67%	44	42	9	95.45%	21.43%