

Table S2. Summary of TALEN activity in *Arabidopsis*.

TALEN target	Expression method	Number of parental T1 plants with somatic indels (total transgenic)	Somatic NHEJ efficiency	Number of progeny screened	Number of mutant progeny recovered
<i>ADH1</i>	XVE	6 (13)	5 – 42%	133	5
<i>ADH1</i>	35S	6 (8)	10 – 60%	nt	–
<i>TT4</i>	XVE	1 (3) ^a	6 – 7%	134	0
<i>MAPKKK1</i>	XVE	1 (4) ^a	5%	108	0
<i>DSK2Ba</i>	XVE	5 (10)	3 – 9%	386	0
<i>DSK2Bb</i>	XVE	4 (6)	2.5 – 7%	248	0
<i>NATA2a</i>	XVE	10 (13)	2.5 – 28%	99	0
<i>NATA2a</i>	35S	2 (6)	nt	60	0
<i>NATA2b</i>	XVE	6 (9)	4 – 27%	172	0
<i>NATA2b</i>	35S	14 (18)	2 – 73%	189	4

nt = not tested.

^a Consistently low recovery of transgenic plants over three separate transformation experiments.