

Supplementary Fig.3 The 6mA quantification data in *P. sojae* and *P. infestans* using UPLC-ESI-MS/MS by three replicates.

Sample	Rep1(p.p.m)	Rep2(p.p.m)	Rep3(p.p.m)	average	% <i>P. sojae</i> WT	STDEV
<i>P. sojae</i>	337.5840607	454.6034864	448.414235	413.5339	100	65.84
<i>P. infestans</i>	550.2369315	648.7194895	308.9952665	502.6521	121.5504	174.78

Supplementary Fig. 4 A brief summarize of the mutations of each *psdamt1*, *psdamt2*, *psdamt3* mutant.

<b>Mutant</b>	<b>Mode of destruction</b>	<b>Sequence change</b>
<i>psdamt1</i> -T21	Frame shift	-139bp(homozygote)
<i>psdamt1</i> -T50	Frame shift	-1bp(homozygote)
<i>psdamt1</i> -T115	Frame shift	-5bp/-1bp
<i>psdamt2</i> -T10	HDR mediated replacement	RFP replace(homozygote)
<i>psdamt2</i> -T18	HDR mediated replacement	RFP replace(homozygote)
<i>psdamt2</i> -T52	Frame shift	-1(homozygote)
<i>psdamt3</i> -T3	Frame shift	-373bp(homozygote)
<i>psdamt3</i> -T9	Frame shift	-374bp(homozygote)
<i>psdamt3</i> -T16	Frame shift	Insertion, +1bp(homozygote)

Supplementary Fig. 5 6mA quantification data in *P. sojae* DAMT mutants using UPLC-ESI-MS/MS by three replicates.

<b>Sample</b>	<b>Rep1(p.p.m)</b>	<b>Rep2(p.p.m)</b>	<b>Rep3(p.p.m)</b>	<b>average</b>	<b>%<i>P. sojae</i> WT</b>	<b>STDEV</b>
<i>psdamt1</i> -T21	10.84669284	49.71184699	40.20488338	33.58781	8.122%	20.25
<i>psdamt2</i> -T52	19.38117836	26.94702479	25.2741907	23.86746	5.771%	3.97
<i>psdamt3</i> -T9	62.84280234	31.04520473	42.37781976	45.42194	10.983%	16.11