

TABLE S2. Deamidation activity of purified CaGahA<sup>a</sup>

Substrate	Specific activity ( $\mu\text{mol}\cdot\text{min}^{-1}\cdot\text{mg}^{-1}$ )	Relative activity (%)
L-Gln	412.8 $\pm$ 52.6	100
L-Gly-Gln	567.3 $\pm$ 23.7	137
L-Ala-Gln	397.8 $\pm$ 86.3	96
L-Leu-Gly-Gln	407.8 $\pm$ 47.3	99
L-Pro-Leu-Gly-Gln	372.7 $\pm$ 31.7	90
L-Asn	31.1 $\pm$ 1.3	7.5
L-Gly-Asn	11.2 $\pm$ 1.9	2.7
L-Leu-Ala-Asn	1.0 $\pm$ 0.1	0.2
L-Leu-Gly-Asn	6.7 $\pm$ 0.2	1.6
L-Pro-Leu-Gly-Asn	5.2 $\pm$ 1.0	1.4

<sup>a</sup>CaGahA was purified as previously described (Ito *et al.*, Biosci. Biotechnol. Biochem. 75:1317–1324, 2011). The deamidation activity was determined by measuring the ammonia liberated from various substrates. Assays were carried out in triplicate, and the results represent the mean  $\pm$  SD values.