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Supplementary material:

Table 1: Subcellular localization of EMB564 protein predicted by five predictors

Predictor	Predicted locations	Selected parameters	Prediction website
Plant-mPLoc	Nucleus	Default	http://www.csbio.sjtu.edu.cn/bioinf/plant-multi
CELLO [a]	Nucl (2.777), Mito (0.874), Cyto (0.689), Extra (0.260), Chlo (0.241), PM (0.051), Pero (0.028), ER (0.021), Vac (0.020), Lyso (0.014), Golgi (0.013), Cytoskeletal (0.012)	Eukaryotes	http://cello.life.nctu.edu.tw
WoLF PSORT [b]	Nucl (9.0), Chlo (2.0), Mito (1.0), plastid (1.0)	Plant option	http://wolfpsort.org
Predotar [c]	Mito (0.01), plastid (0.00), ER (0.00), elsewhere (0.99)	Plant sequences	http://urgi.versailles.inra.fr/predotar
TargetP [d]	cTP (4), mTP (5), SP (5), other (2)	Plant option No cutoff set	http://www.cbs.dtu.dk/services/TargetP

Notes: a, output results in SVM score; b, 14 nearest neighbors are used for the prediction, where 9 indicates nucleus; c, output results is a probability estimated as to whether the sequence contains a mitochondrial, plastid or ER targeting sequence; d, output results in reliability class from 1 to 5, where 5 indicates the weakest prediction. Chlo = chloroplast; Cyto = cytoplasmic; Extra = extracellular; Lyso = lysosomal; Mito = mitochondria; Nucl = Nuclear; Pero = peroxisomal; PM = plasma membrane; SP = secreted proteins; Vac = vacuole.