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Sommario/riassunto	Most terrestrial plants live in symbiosis with arbuscular mycorrhizal fungi. In this study, a mycorrhizal-induced gene family of <i>Medicago truncatula</i> encoding putative Kunitz protease inhibitors was functionally characterized by means of biomolecular, biochemical, microscopical and in silico methods. Their putative target proteases were identified among a clan of serine carboxypeptidases. Results suggest that both protein families work functionally together to control mycorrhizal establishment.