으아리와 사위질빵 판별을 위한 PCR 기반의 마커 개발

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Development of PCR based Genetic Marker for Discrimination of Manchurian Clematis, *Clematis terniflora* var. *mandshurica* and Three-leaf clematis, *Clematis apiifolia*

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To distinguish manchurian clematis, *Clematis terniflora* var. *mandshurica* and three-leaf clematis, *C. apiifolia*, we collected 9 nuclear ITS sequences and two sequences of trnQ-trnH intergenic spacer and trnH region in GenBank database. Those sequences were aligned to find differences between those of *C. terniflora* var. *mandshurica* and *C. apiifolia*. Two primer pairs were newly designed base on the differences between two species and conducted multiplex PCR. The size of amplified fragments using generated primers were 380 base pairs (only three-leaf clematis) and 189 base pairs (both species). This genetic marker based on PCR is useful to discrimination of *C. terniflora* var. *mandshurica* and *C. apiifolia*

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