## Structural comparison of poplar CCoAOMT gene with alfalfa CCoAOMT

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## Abstract

Caffeoyl CoA 3-O-methyltransferase (CCoAOMT) catalyze identical reactions in phenylpropanoid pathways, concerning in the formation of lignin precursors. Poplar CCoAOMT gene was isolated by RT-PCR with primer designed from the sequence of Populus balsamifera CCoAOMT. The amplified CCoAOMT was highly similar (87%) at the amino acid sequence level to alfalfa CCoAOMT. Here, we report the structural comparison of poplar CCoAOMT gene with alfalfa CCoAOMT and homology modeling based on alfalfa 1SUI structure.

## Reference

 Ferrer JL, Zubieta C, Dixon RA, Noel JP. Crystal structures of alfalfa caffeoyl coenzyme A 3-O-methyltransferase. (2005) Plant Physiol. 137, 1009-17.