

Supplementary File 1

Analysis of sequence variability and transcriptional profile of *cannabinoid synthase* genes in *Cannabis sativa* L. chemotypes with a focus on *cannabichromenic acid synthase*

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Supplementary File S1: nucleotide sequence alignment of *CBCAS* genes downloaded from sequenced genomes, AB212830 and a *CBCAS* sequenced from one of the genotypes under study.

CLUSTAL multiple sequence alignment by MUSCLE (3.8)

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AGQN03005496.1:2986-4620
QVPT02000161.1:1531540-1533174
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AGQN03005496.1:2986-4620
QVPT02000161.1:1531540-1533174
MW429551

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QVPT02000161.1:1531540-1533174
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QVPT02000161.1:1531540-1533174
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AGQN03005496.1:2986-4620
QVPT02000161.1:1531540-1533174
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AGQN03005496.1:2986-4620
QVPT02000161.1:1531540-1533174
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[illegible][illegible][illegible]

Input sequences:

((5'3') indicates that the downloaded sequences have been converted into their respective inverse complement to perform the alignment)

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Cannabis.v1_scf2882_q, whole genome shotgun sequence

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006705Cannabis_1597M_SHL, whole genome shotgun sequence (5'3')

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>AGQN03005496.1:2986-4620 Cannabis sativa cultivar Purple Kush 005500F, whole
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>AB212830.1 Cannabis sativa gene for tetrahydrocannabinolic acid synthase, partial cds

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>MW429551

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