

Aquaporins-mediated water availability in substrates for cannabis cultivation in relation to CBD yield.

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Supplementary Table 1. Primer used for measurement of *C. sativa* (CanS) aquaporins expression by RT-qPCR. Columns: assigned name, NCBI ID number, primer sequence: up the forward (F) and below the reverse (R), Amplicon size (bp), % efficiency.

Assigned name ^a	NCBI ID number	Primer Sequence (5'→3') Forward (F)/reverse (R) primers	Amplicon size (bp)	Efficiency (%)
CanS.PIP1;1	XM_030634146.1	F: CAAACCAGATAGAACTCAGC R: CCATTGTTAGATGCTGAAGC	120	97,13
CanS.PIP1;2	XM_030645214.1	F: TTTCTTCAGTACACAGACACC R: CCTAACATCCTCTTCCTTACC	111	97,59
CanS.PIP1;3	XM_030624817.1	F: TCACTCATTTTCAACACAACC R: ACATCTTCTCTTTCCCTTCC	154	96,63
CanS.PIP1;4	XM_030632002.1	F: CACTCTCTCTACTCTGTCTCTC R: CAATCTAACATCCTCTTCTTGC	115	99
CanS.PIP2;1	XM_030634488.1	F: CCTACCTCTTTTCTTCTCTATCC R: CATGGTGATGCTTTAGCTGG	142	97,75
CanS.PIP2;2	XM_030647669.1	F: CTCATCCTCACAACAACACC R: GCTTCGGTTACTTCAACGTC	102	100
CanS.PIP2;3	XM_030638283.1	F: CGACTTGACTATCTCAGTAGC R: ACGTCCTTCACCATTTGTTG	111	98,52
CanS.PIP2;7	XM_030643265.1	F: AAAGAAAAAGGCACAGTACAAA R: CGTAGTCTCTCTCTCTCTC	81	96,55
HK genes*	ID number	Primer Sequence	Amplicon (bp)	Efficiency (%)
CanS.18S	XM_030651156.1	F: GAGAATGGGCATGAGTGGAT R: GCCCCATCAATAAGACCAGA	140	91,22
CanS.EF1	XM_030649893.1	F: GCCCTGTCTTTGAGAGCAAC R: CAATCCACTGCTCAATGTGG	111	95,51
CanS.PP2A	XM_030625838.1	F: GCTTTGATACCCCTCCACAA R: AGTATCCGCGAGCTTGACAT	105	100
CanS.UBE3	XM_030633681.1	F: GCTCCTTACCGTCAGACTCG R: GTTTGCGGCAGATAGGACAT	150	100
CanS.TUB	XM_030654744.1	F: CTCGGCTGAGAAAGCATACC R: CCATGCCTAGGGTCACACTT	102	100

^a Based in phylogenetic analysis of aquaporin family proteins of *Cucumis melo* L., *Arabidopsis thaliana* L. and *Oryza sativa* L.

* Deguchi M, Potlakayala S, Spuhler Z, George H, Sheri V, Agili R, et al. (2021) Selection and validation of reference genes for normalization of qRT-PCR data to study the cannabinoid pathway genes in industrial hemp. PLoS ONE 16(12): e0260660. <https://doi.org/10.1371/journal.pone.0260660>