

**Table S2.** Reference genes and proteins involved in plant growth promotion factors.

Type of Factor	Factor	Gen Name	Function	Protein Accession N°	Reference
Phytohormones biosynthesis	Indol-3-acetic acid	<i>trpE</i>	anthranilate synthase	CAL26225.1	[1]
		<i>trpD</i>	anthranilate phosphoribosyltransferase	CAL26226.1	
		<i>trpC</i>	indole-3-glycerol-phosphate synthase	WP_012117859.1	
		<i>trpF</i>	N-(5'-phosphoribosyl)anthranilate isomerase	WP_012117858.1	
		<i>trpB</i>	tryptophan synthase subunit beta	WP_012117857.1	
		<i>trpA</i>	tryptophan synthase subunit alpha	WP_012117856.1	
		<i>ysnE</i>	Putative IAA-acetyl-transferase	WP_012118742.1	
	Cytokinin	<i>yhcX</i>	Nitrilase	CAL26199.1	[2]
		<i>miaA</i>	tRNA dimethylallyltransferase	NP_389615	
		<i>miaB</i>	tRNA-2-methylthio-N(6)-dimethylallyladenosine synthase	NP_389583	
		<i>yvdD</i>	cytokinin riboside 5'-monofosfato fosforibohidrolase	NP_391344.1	
Polyamines biosynthesis	Putrescine	<i>speA</i>	Arginine decarboxylase	NP_389346.1	[2]
		<i>speB</i>	Agmatinase	NP_391629.1	
	Spermidine	<i>speD</i>	S-adenosylmethionine decarboxylase	NP_390779.2	
		<i>speE</i>	Polyamine aminopropyltransferase	NP_391630.1	
Plant growth promotor volatil compound	Acetoin and 2,3-butanediol	<i>alsS</i>	Acetolactate synthase	ILVX_BACSU	[3]
		<i>alsD</i>	Alpha-acetolactate decarboxylase	ALDC_BACSU	
		<i>bdhA</i>	(R,R)-butanediol dehydrogenase	BDHA_BACSU	
		<i>alsR</i>	HTH-type transcriptional regulator AlsR	ALSR_BACSU	
	Acetoin and 2,3-butanediol	<i>acuA</i>	Acetoin utilization protein AcuA	ACUA_BACSU	
		<i>acuB</i>	Acetoin utilization protein AcuB	ACUB_BACSU	
		<i>acuC</i>	Acetoin utilization protein AcuC	ACUC_BACSU	
		<i>acoA</i>	2,6-dichlorophenolindophenol oxidoreductase subunit alpha	ACOA_BACSU	
		<i>acoB</i>	2,6-dichlorophenolindophenol oxidoreductase subunit beta	ACOB_BACSU	
		<i>acoC</i>	Acetoin dehydrogenase E2 component	ACOC_BACSU	

GABA	<i>bdhA</i>	(R,R)-butanediol dehydrogenase	BDHA_BACSU	[4]
	<i>gadP</i>	GABA permease	BSU06310	
	<i>gadD</i>	Succinate-semialdehyde dehydrogenase	BSU03910	
	<i>gadT</i>	4-aminobutyrate aminotransferase	BSU03900	
Phosphate solubilization	<i>phoR</i>	Alkaline phosphatase synthesis	PHOR_BACSU	[5]
	<i>phoP</i>	Alkaline phosphatase synthesis transcriptional regulatory protein	PHOP_BACSU	
	<i>phoA</i>	Alkaline phosphatase	PPB4_BACSU	
	<i>gdh</i>	Glucose 1-dehydrogenase	DHG_BACSU	
	<i>yvcT</i>	2-ketogluconate reductase	TKRA_BACSU	
Nitrogen metabolims	<i>ureA</i>	Urea amidohydrolase subunit gamma	URE3_BACSU	[6]
	<i>ureB</i>	Urease subunit beta	URE2_BACSU	
	<i>ureC</i>	Urease subunit alpha	URE1_BACSU	
	<i>nasD</i>	Nitrite reductase	NASD_BACSU	
	<i>nasE</i>	Assimilatory nitrite reductase [NAD(P)H] small subunit	NASE_BACSU	
	<i>narG</i>	Nitrate reductase alpha chain	NARG_BACSU	
	<i>narI</i>	Nitrate reductase gamma chain	NARI_BACSU	
	<i>narH</i>	Nitrate reductase beta chain	NARH_BACSU	

## References

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