***S5 Table.*** *Bacterial strains used in this work.*

|  |  |  |
| --- | --- | --- |
| **Strain** | **Description** | **Reference** |
| ***Escherichia coli***  |  |
| DH5α | *endA*1, *hsdR*17(rK-mK+), *supE*44, *recA*1, *gyrA* (Nalr), *relA*1, Δ(*lacIZYA-argF*)U169, *deoR*, Φ80*dlacΔ(lacZ)M15* | Thermo Fisher Scientific |
| ***Pseudomonas fluorescens*** |  |
| SBW25 | Environmental *P. fluorescens* isolate | [1] |
| SBW25∆*rccR* | *rccR* (*PFLU\_6073*) deletion strain | [2] |
| SBW25∆*hexR* | *hexR* (*PFLU\_4840*) deletion strain | [2] |
| SBW25-*lacZ* | WT SBW25 strain expressing *lacZ* | [2] |
| SBW25 ∆*rccR*-*lacZ* | Mutant *rccR* background expressing *lacZ* | This work |
| SBW25 ∆*gabP* | *gabP* (*PFLU\_0315*) deletion strain | This work |
| SBW25 ∆*vanR* | *vanR* (*PFLU\_3295*) deletion strain | This work |
| SBW25 ∆*2583* | *PFLU\_2583* deletion strain | This work |
| SBW25 ∆*5080* | *PFLU\_5080* deletion strain | This work |
| SBW25 ∆*6072* | *PFLU\_6072* deletion strain | This work |
| SBW25 ∆*dctA* | *dctA* (*PFLU\_3500*) deletion strain | This work |
| SBW25 ∆*1533* | *PFLU\_1533* deletion strain | This work |
| SBW25 ∆*2414* | *PFLU\_2414* deletion strain | This work |
| SBW25 ∆*3091* | *PFLU\_3091* deletion strain | This work |
| SBW25 ∆*4463* | *PFLU\_4463* deletion strain | This work |
| Tipple isolates | 120 *Pseudomonas* isolates from the rhizosphere soil of Tipple barley plants | This work |
| Chevallier isolates | 120 *Pseudomonas* isolates from the rhizosphere soil of Chevallier barley plants | This work |
| ***Streptomyces venezuelae***  |  |
| ATCC 10712 | Laboratory strain | [3] |
| ***R. leguminosarum* bv. viciae 3841 *lux* operon fusions (Rlv3841\_*lux*)** |
| LMB483 | Phenylalanine biosensor | [4] |
| LMB590 | Xylose biosensor | [4] |
| LMB592 | *myo-*Inositol biosensor | [4] |
| LMB593 | Sucrose biosensor | [4] |
| LMB608 | Tartrate biosensor | [4] |
| LMB610 | Formate biosensor | [4] |
| LMB613 | Salicylic acid biosensor | [4] |
| LMB614 | C4-dicarboxylates biosensor | [4] |
| LMB617 | Mannitol biosensor | [4] |
| LMB619 | Erythritol biosensor | [4] |
| LMB638 | Malonate biosensor | [4] |
| LMB639 | GABA biosensor | [4] |
| LMB667 | Fructose biosensor | [4] |
| OPS0650 | Proline biosensor | [5] |

Reference

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