

Table S1. Primers used for the molecular characterization of generated transgenic rice lines.

Target gene	Gene reference	Primer name	Primer sequence (5'-3')
<i>AtPDX1.1</i> (construct)	At2g38230	AtPDX1.1-CDS-F AtPDX1-plasmid-R	GTGAGGAGTGTGAACGGAGC ACAATCAGTAAATTGAACGGAG
<i>AtPDX2</i> (construct)	At5g60540	AtPDX2-CDS-F AtPDX2-plasmid-R	GGCAGACAGAGCAGTTGGTC GGAACTACTCACACATTATTCTGGAG
<i>hptII</i>	-	hptII-F hptII-R	TCTCGATGAGCTGATGCTTTGG AGTACTTCTACACAGCCATCGG

Table S2. Primers used for real-time quantitative PCR analysis.

Target gene	Gene reference	Primer name	Primer sequence (5'-3')
<i>AtPDX1.1</i>	At2g38230	AtPDX1.1t-F AtPDX1.1t-R	GATGATAAGGTTGAGAGGTTCCG GCATATCTCATTAAAGCAGGGC
<i>AtPDX2</i>	At5g60540	AtPDX2t-F AtPDX2t-R	GCTCTACGTGAGTTTGTAAAG ATG CTCTTTCTGACCAACTGCTC
<i>OsPDX1.3a</i>	LOC_Os07g01020	OsPDX1.3a-F OsPDX1.3a-R	GCCTTATCCTTCTTTGCTA CTGGCTGGCTGGTGTCTAATTC
<i>OsPDX1.3b</i>	LOC_Os10g01080	OsPDX1.3a&1.3b-F OsPDX1.3b-R	TTGGCATCAACCTCTCCG AGGAAGGATGGCACTCTACG
<i>OsPDX1.3c</i>	LOC_Os11g48080	OsPDX1.3c-F OsPDX1.3c-R	GTCGGCATCAACCTCAACG AGAGGGAGCAGGAGCAGGA
<i>OsPDX2</i>	LOC_Os02g03740	OsPDX2-F OsPDX2-R	CCCATCTTCGAGTAGCTCATG CTCAACTTTCTCTATTGTCACC
<i>OsUBQ5</i>	LOC_Os01g22490	UBQ5-F UBQ5-R	ACCACTTCGACCGCCACTACT ACGCCTAAGCCTGCTGGTT