Characterisation of PUL-deficient mutants of rice (*Oryza sativa* L.) and the function of PUL on the starch biosynthesis in the developing rice endosperm

Naoko Fujita[1,2,7], Yoshiko Toyosawa[2,3], Yoshinori Utsumi[1], Toshiyuki Higuchi[4], Isao Hanashiro[4], Jun Ikegami[5], Sayuri Akuzawa[5], Mayumi Yoshida[1], Akiko Mori[1], Kotaro Inomata[1], Rumiko Itoh[1], Akio Miyao[6], Hirohiko Hirochika[6], Hikaru Satoh[3], Yasunori Nakamura[1]

Supplementary Material

Table S1. Primer list for sequencing analysis of *Os* PUL gene.

primer name		sequence	
pul-1 F	5'-	TTGTCTCTTGCACCAAAAACG	-3'
pul-1 R	5'-	GTTGTTGTTGCTTCGCCATT	-3'
pul-2 F	5'-	GCTTACCCCGAAGCTCCTAC	-3'
pul-2 R	5'-	GCCTGTGGAAACAAGTCCAT	-3'
pul-3 F	5'-	CGCATTGGACCTATATTGGAA	-3'
pul-3 R	5'-	TCACGTGTTGCAAGGGATAA	-3'
pul-4 F	5'-	GGAGATCGTGACATTAACATGC	-3'
pul-4 R	5'-	TTGGAAACGCAAAGTGTGAG	-3'
pul-5 F	5'-	TCTTTGGCTGACTCAAAAAGAA	-3'
pul-5 R	5'-	TTTGAGAGGGTTTGGATTCG	-3'
pul-6 F	5'-	CGAATCCAAACCCTCTCAAA	-3'
pul-6 R	5'-	GGGACGACTTTGCAATACCA	-3'
pul-7 F	5'-	TGGGGTTCTTCTGGTATTGC	-3'
pul-7 R	5'-	CGAACCCCTGAAGTGAAACT	-3'
pul-8 F	5'-	TGTCGTCAGCACAAGAGTGA	-3'
pul-8 R	5'-	ACGAGTACGCACAACAGCAC	-3'
pul-9 F	5'-	GAACTCGAACCAGAACATGC	-3'
pul-9 R	5'-	TGCTTAGTGACGTTCTGCAAG	-3'
pul-10 F	5'-	GGACCACTTGGTGCAGTTTT	-3'
pul-10 R	5'-	GACAATTCATCCCAGGAAGC	-3'
pul-11 F	5'-	TAATTTGGCCAGGCTTTCTG	-3'
pul-11-R	5'-	TTCCAATTGCTTTTGTTGTCA	-3'
pul-12 F	5'-	CTGGCTTGACTCATGTTCATTT	-3'
pul-12 R	5'-	TGAACCTGGAGGGAGTTTTG	-3'
pul-13 F	5'-	TGGGGAAATTCATTTACTCTGG	-3'
pul-13 R	5'-	CCGTTCTGCATAGAGCTGAC	-3'
pul-14 F	5'-	TGTATCTTCCATCCTTGTGCTG	-3'
pul-14 R	5'-	AACCCTGTTATGCTGTACTCACC	-3'
pul-15 F	5'-	ACAAAACAGCCATTGTGCAG	-3'
pul-15 R	5'-	GCCCAATTTAAAAGGTCATCC	-3'
pul-16 F	5'-	CGAAAATAGT GCGGCTATGA	-3'
pul-16 R	5'-	ATGATTGATG GGCGTTCAGT	-3'
pul-17 F	5'-	CTTGATGTAGTAAAAGCACTGAACG	-3'

pul-17 R	5'-	TTTTCAAAAGCGAACAAACTCA	-3'
pul-18 F	5'-	ACTTTGGTACGTCATCCGTGT	-3'
pul-18 R	5'-	GATGGTGTATAAACTCCCACCTTT	-3'
pul-19 F	5'-	CCTGTAAAACTCAGTCTGGAGAA	-3'
pul-19 R	5'-	CCCTCGTAAGGCTTCGAATA	-3'
pul-20 F	5'-	ACTGCATCGCTACTGTGTGC	-3'
pul-20 R	5'-	CGACTGCATGCATTTTAGGA	-3'
pul-21F	5'-	ACTCTTTCCAGCCATAGAAAAAT	-3'
pul-21 R	5'-	CACGTACTGATTGTCATCTCCAG	-3'
pul-22 F	5'-	ACAGCAAGGCTTTTCTACCG	-3'
pul-22 R	5'-	CATCAACGATCACCAACATCA	-3'
pul-23 F	5'-	TGGATATGAAGGTGTCTTTTGG	-3'
pul-23 R	5'-	GGTGACTGGCTGGTTTCAAT	-3'
pul-24 F	5'-	CCCGTTGCTTTCTTCTAGTGA	-3'
pul-24 R	5'-	CCAAAACATGAAATGATCAGCA	-3'
pul-25 F	5'-	CAGGTTGACCACTGGTTGAAT	-3'
pul-25 R	5'-	AACATAAATTTGGGATAGGCAGA	-3'
pul-26 F	5'-	CCTTCAGACAAATGCATTCAA	-3'
pul-26 R	5'-	CCGATCTGGGAAAAGACAAA	-3'
pul-27 F	5'-	TGTGCTTTCTTACCGTGTTTTC	-3'
pul-27 R	5'-	CTTGATGAAAAACATCGTACTAGC	-3'
pul-28 F	5'-	TGAGACTCTGTTTGATATTGTCAGT	-3'
pul-28 R	5'-	GACCTGGGATAATGCGATCA	-3'
pul-29 F	5'-	TGGCCTATCGATTGATGAGAA	-3'
pul-29 R	5'-	TGCCTGAACAACTGAGTCCA	-3'
pul-30 F	5'-	CTTTCTGCGATCTGCTGTTG	-3'
pul-30 R	5'-	CACCCCAATTGTTTGTTTCA	-3'
pul-31 F	5'-	AATTCGATTTGCTTTGAACAG	-3'
pul-31 R	5'-	TGTACTCCATCCATCCCAAA	-3'
pul-32 F	5'-	TTTTGGGACAAATCGTGATG	-3'
pul-32 R	5'-	GCTCCCTGTCTACCATAATGC	-3'
pul-33 F	5'-	CGCAGAATGAAGTTATCGTGA	-3'
pul-33 R	5'-	CATACCAGGCATTGCAGTCT	-3'
pul-34 F	5'-	AAGCATAATTTTGCATGAGCTG	-3'
pul-34 R	5'-	CCGATGAATTCACCTGAACC	-3'
pul-35 F	5'-	GTTGAGAGGCGATTCGATGT	-3'
pul-35 R	5'-	TGAAACAAAGGGAGCATTTTT	-3'