Supporting Information

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SI Text

Plant Materials and Growth Conditions. The *Epi-d1* mutant (natural mutant) has been maintained by seeds for >90 years in the plant breeding laboratory of Kyushu University. All nontransgenic plants used in this study were grown under natural field conditions in a research field at Nagoya University, Togo, Aichi, Japan. Seeds were immersed in water for 2 days and sown in a nursery bed. One-month-old seedlings were transplanted to the paddy field with a spacing of 20×35 cm. Transgenic plants were grown in a closed greenhouse.

Primer Sequences Used in This Article. d1–1002-U; 5'- AAAAAAGTAATTCCAATCACAAATCCGAA-3', d1–1002-L; 5'- CC-TCTCCTGATGATGCAGTG-3', d1–1005-U; 5'- GTTGAGTAACCACGTCTTCGACGTCTGC-3', d1–1005-L; 5'- GTG-AAATGGTATTGTTGGAAGAC-3', STS-1-U: 5'- TATGCC-AAGTACAATCTAATAAC-3', STS-1-L: 5'- TTTCCGACG-AGGAGTATTCC-3', STS-2-U: 5'- TGACACCGGCATAAA-AGACG-3', STS-2-L: 5'- TCGGGAGGATGTTTGCATCC-3', d1–8-U; 5'-CCACTATGCACATGTATGATATGA-3', d1–8-L; 5'-TCGCCTCTTGCACGAAAGCG-3', d1–17-U; 5'-TTAGTGTGGAAGCGCGTGGTTTTAAATGCGG-3',

d1-17-L; 5'- ATTTAGGTCCGGCATAAAAA-3', D1exon9-10U: 5'-TATGAGTCATTTTGCAGGAGG-3'. D1-5'-ATTGTACTTACTCGCTAATGGC-3'. exon9–10L: d1-11-U: 5'-AAACAGGAGATATACTAAAACTAAACTC-GG-3', d1-11-L: 5'- AAATTTGACACTAGATCGA-3', d1-12-U: 5'-GATGTCTCATTGCAAGTTTG-3', and d1-12-L: 5'-TTAATTTCACCTCTTATACTTAGGGAGACT-3'. Repeat-probe-U: 5'-GTTTGTCGCAGAAGCACCAG-3', repeatprobe-L: 5'-GATTGAGGATTTCACAACCGG-3', D1-probe-U: 5'-TATGAGTCATTTTGCAGGAGG-3', D1probe-L: 5'-ATTGTACTTACTCGCTAATGGC-3', 5s-rRNAprobe-U: 5'-GGATTAGGCTCACCAACCAA-3', 5s-rRNAprobe-L: 5'-TTATCCAAACGGCAGCTTCT-3', centromerespecific repeat probe-U: 5'-GAGTGTATTGGGTGCGTTCG-3', centromere-specific repeat probe-L: 5'-GTGAGTTTTTC-CCACGAACG-3', D1-Chip-1-U: 5'-TATGTATAACAATGT-GGGTCAGC-3', D1-Chip-1-L: 5'-TGCATACATGAGCAGT-AAGC-3', D1-Chip-2-U: 5'-AAAAGTAAGTTAGCACTCG-GAC-3', D1-Chip-2-L: 5'-GTCTGCAGACTGTTACCAGC-3', D1-Chip-3-U: 5'-CTGTGCATATGAACATGTCTTG-3', D1-Chip-3-L: 5'-CGAGCACAGTCTACAAGGTC-3', D1-Chip-4-U: 5'-TTTACACGTGGACCATTGATTG-3', D1-Chip-4-L: 5'-TAGACAACAGGTAGAGAATCTG-3'.



in d1 background in d1 background in d1 background in d1 background in Epi-dwarf background in d1 background

Fig. S1. Transgenic analysis of the *D1* gene. The gross morphology of transformants. The empty vector and *D1* genes cloned from Nipponbare and *Epi-d1* were transformed into *d1* loss-of-function mutant. The *D1* gene cloned from Nipponbare was also transformed into *Epi-dwarf*. The 33.5-kb candidate region cloned from *Epi-d1* was transformed into *d1* loss-of-function mutant.

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

DNAS

SAN

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

Nipponbare-repeatA -d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC

Nipponbare-repeatA 1286 TACTAGCTGTGG Epi-d1-repeatA Nipponbare-repeatB 1287 1300 Epi-d1-repeatB 1300 Nipponbare-repeatC Epi-d1-repeatC 1300 TA 1300 TA

PACTAGCTGTGGC



GGTGTGCATCCACAACCGTAGCAATGGCTGCTCAGCAGGCCCATGATCTCT GGTGTGCATCCACAACCGTAGCAATGGCTGCTCAGCAGGCCCCATGATCTCT! Fig. S2. Comparison of upstream repeat sequences. Comparison of repeat A, B, C between Nipponbare and Epi-dl.

TACTABCTOTOGCCGCOODTOCATCCACCACCOTASCAATOGCTOCTCABCAGGCCCCATOATCTCTGAAAAAOTTCCTGCAAGCAOTACATATOTATOT TACTABCTOTGGCCGCGOTOTGCATCCACCACCOTASCAATGGCTGCTCABCAGGCCCATOATCTCTGAAAAAOTTCCTGCAAGCAOTACATATOTATGT

ЭААААААБТТО ЭААААААБТТО

1386

1399

1399

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Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1386 1387 1400 1400 1400 1400	АСАЮТТЮТАСАСАСССТСОССССТАТТСАТССТСТТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТООТТОАТТААААТТТАБААВААСЮТТ АСАЮТТОТАСАСАСССТСОССССТАТТСАТССТСТТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТОАТТААААТТТАБААВАААСЮТТ АСАЮТТОТАСАСАСССТСОССССТАТТСАТССТСТТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТОАТТААААТТТАБААВСААСЮТТ АСАЮТТОТАСАСАСССССОССССТАТТСАТССТСТТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТОАТТААААТТТАБААВСААСЮТТ АСАЮТТОТАСАСАСССССОССССТАТТСАТССТСТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТОАТТАААТТТАБААВСАЮТ АСАЮТТОТАСАСАСССССОССССТАТТСАТССТСТТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТОАТТААААТТТАБААВСАЮТТ АСАЮТТОТАСАСАСССССОССССТАТТСАТССТСТАААВОАОТААБОАОТААТОАСАЮТСОАТАТОРОТТООТТОАТТАААТТАБААВААСЮТТТ АСАЮТТОТАСАСАСССССОССССТАТТСАТССТСТААВОВАТААБОАОТААТОАСАЮТСОАТАТОТОТТООТТОАТТАААТТТАБААВААСЮТТ	1485 1486 1499 1499 1499 1499
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1486 1487 1500 1500 1500 1500	TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTTGTGTATTGCTTTTGTTATGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATAT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTATGCTTTGTTATGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATAT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTATGCTTTGTTATGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATAT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTATGCTTTGTTATGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATATT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTATGCTTTGTTAGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATATT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTGATGCTTTGTTAGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATATT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTGTTTGGTTAGCTTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATATT TTGAATAGAATTGTGAACTTACTCGAATATCGTTCTTTTGTGTATGCTTTGGTTAGCCTCACCTGACTCTATCTCTGTGAAATGGCAGCTAGTATATT	1585 1586 1599 1599 1599 1599
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1586 1587 1600 1600 1600 1600	SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTTGCTACAGTTTGGAGGTACCTGGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTTGCTACAGTTTGGAGGTACCTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT SAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGT GAAGGTTGAAGCTTTGTGGGTATCCAGCAAGTATTTCAATGGCGTGCTACAGTTTGGAGGTACCTTGGCCCCCAAACTTGGGGAAAAACCTCAGCTGTT	1685 1686 1699 1699 1699 1699
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1686 1687 1700 1700 1700 1700	BCCCABGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTCGAAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT BCCCABGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGAAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCABGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGGAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCABGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGGAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCABGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGGAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCAGGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGGAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCAGGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGCGAAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT SCCCAGGTCACCTGCACTTACAAGAGTTATTTATGCTGATCCAAGATTTCTGGTGTGCGAAAGTGGGTATGTGAATGTGTTCTGATCAGTGAGATGTACT	1785 1786 1799 1799 1799 1799
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1786 1787 1800 1800 1800 1800	АБGAATACTAAAATAAAGGACACATTGATATTAAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGTGGAGGCAGG АGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGTGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGTGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGGAGGCAGG AGGAATACTAAAATAAAGGACACATTGATATTATAAAAGGCAAGATTTCTGAGTAAACTGAAGATGATATATCTCTTTTTGTGCAGTAGGGAGGCAGG	1885 1886 1899 1899 1899 1899
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1886 1887 1900 1900 1900 1900	CTPAAACACCTTGTATCACCTACTGCTAGTTTACAATCACGGACATCTTCTCGACTATTTAACCATGCACCATCACCGAGATTTCGCCATCGAAGGAGTT CTTAAACACCTTGTATCACCTACTGCTAGTTTACAATCACGGACATCTTCTCGACTATTTAACCATGCACCACCACCGAGATTTCGCCATCGAAGGAGTT CTTAAACACCTTGTATCACCTACTGCTAGTTTACAATCACGGACATCTTCTCGACTATTAACCATGCACCACCACCAGAGTTCGCCATCGAAGGAGT CTTAAACACCTTGTATCACCTACTGCTAGTTTACAATCGGGACATCTTCTCGACTATTAACCATGCACCACCACCGAGATTTCGCCATCGAAGGAGT CTTAAACACCTTGTATCACCTACTGCCTGGTAGTTTACCATGCGGACATCTTCTCGACTATTAACCATGCACCATCACCGAGATTTCGCCATCGAAGGAGT CTTAAACACCTTGTATCACCTACTGCTGGTAGTTTACAATCACGGACATCTTCTCGACTATTAACCATGCACCACCACCGAGATTTCGCCATCGAAGGAGT CTTAAACACCTTGTATCACCTACTGCTGGTAGTTTACAATCACGGGACATCTCTCGACTATTTAACCATGCACCACCCGAGATTTCGCCATCGAAGGAGT CTTAAACACCTTGTATCACCTACTGCTGGTTTACAATCACGGGACATCTTCTCGACTATTTAACCATGCACCACCCGAGATTTCGCCATCGAAGGAGT	1985 1986 1999 1999 1999 1999
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	1986 1987 2000 2000 2000 2000	CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTTTGCTGGTATTATAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTTGCTGGTATTATAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTTGCTGGTATTATTAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTCTTTGCTGGTATTATTAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTCTTTGCTGGTATTATTAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTCTTTGCTGGTATTATTAGAAAATCCAGTTTCCTGACATGGATTTGATAT CAAGGTTCATTGTCAGAGCTGATGCTGTGAGTTACTTCATTTGCTTTTCTTCTTGCTGGTATTATTAGAAAATCCAGTTTCCTGACATGGATTTGATAT	2085 2086 2099 2099 2099 2099
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2086 2087 2100 2100 2100 2100	TTTAATTTACAGGATTTCTATTCCACACTTGGTGTTTCAAGAAATGCTAGTAAATCTGAAATCAAGAGTGGTAGGTGGTGTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACACTTGGTGTTTCAAGAAATGCTAGTAAATCTGAAATCAAGAGTGGTAGGTGTGGTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACACTTGGTGTTTCAAGAAATGCTAGTAAATCTGAAATCAAGAGTGGTAGGTGGGTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACACTTGGTGTTTCAAGAAATGCTAGTAAATCTGAAATCAAGAGTGGTAGGTGTGGTTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACCTTGGTGTTTCAAGAAATGCTAGTAGATCGAAATCCAAGAGTGGAGGTGGGTTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACCTTGGTGTTTCAAGAAATGCTAGTAGATCTGAAATCAAGAGTGGAGGTGGGTTTTATTTGTCAGTTTAGGG TTTAATTTACAGGATTTCTATTCCACCTTGGTGTTTCAAGAAATGCTAGTAGATCTGAAATCAAGAGTGGTAGGTGTGGTTTTATTTGTCAGTTTAGGG	2185 2186 2199 2199 2199 2199 2199
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2186 2187 2200 2200 2200 2200	CATGCABTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTCTCTCTAGTTTGAGCCTGGTTGTAGGTTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTCTCTAGTTTGAGCCTGGTTGTAGGTTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGTCTCTAGTTTGAGCCTGGTTGTAGGTTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTAGTTTGAGCTGGTTGTAGGTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTCTCTCTAGTTTGAGCTGGTTGTAGGTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTCTCTCTAGTTTGAGCCTGGTTGTAGGTTGTAGGTACCCTATAATT CATGCAGTGATTGGTGCTCCGTACAATCGTAGGAGTATTACCCAGCTTTGCTTGC	2285 2286 2299 2299 2299 2299
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2286 2287 2300 2300 2300 2300	raccaaaccaaaccagactgctttcatgrgggctattagtcgragattactagttttaatcatactgttcacgrgtgaaacaaacaaacaaacaagac taccaaacaaaccagactgctttcatgrgggctattagtcgragattactagttttaaatcatgttcacggtgaaacaaaca	2385 2386 2399 2399 2399 2399 2399
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2386 2387 2400 2400 2400 2400	ACTOTTAAGCTTCCCAGGOAAGATATGAAATATATAACTAGTCTTTTTCAAACTTGGCCATAGTGAGCTTTATGGCCCACTTOTTTGTCTCGAAAGCTT ACTOTTAAGCTTCCCAGGGAAGATATGAAATATATAACTAGTCTTTTTCAAACTTGGCCATAGTGAGCTTATGGCCCACTTGTTGTCTCGAAAGCTT ACTOTTAAGCTTCCCAGGGAAGATAGAAATATATAACTAGTCTTTTTCAAACTTGGCCATAGTGAGCTTTATGGCCCACTTGTTGTTCTCGAAAGCTT ACTOTTAAGCTTCCCAGGGAAGATATATATATAACTAGTCTTTTCAAACTTGGCCATAGTGAGCTTTATGGCCCACTTGTTGTTCTGAAAGCTT ACTOTTAAGCTTCCCAGGGAAGATATGAAATATATAACTAGTCTTTTCAAACTTGGCCATAGTGAGCTTTATGGCCCACTTGTTGTTCCGAAAGCTT ACTGTTAAGCTTCCCAGGGAAGATATGAAATATATAACTAGTCTTTTCAAACTTGGCCATAGTGAGCTTTATGGCCCACTTGTTTGT	2485 2486 2499 2499 2499 2499
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2486 2487 2500 2500 2500 2500	TACTATTCCTACTAGTAACTCAAATATTTGCTATTTCATCTAATTTGAAGGCTATCTCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTC TACTATTCCTACTAGTAACTCAAATATTTGCTATTTCATCTAATTTGAAGGCTATCTCAGCAAAACCCCCTTGAACTAATTCTAAGACAAGCCTATGCTGTC TACTATTCCTACTAGTAACTCAAATATTTGCTATTTCATCTAATTTGAAGGCTATTCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTG TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATCTAATTTGAAGGCTATTCCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTG TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATGTAATTTGAAGGCTATTCCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTG TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATGTAATTTGAAGGCTATCCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTC TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATGTAATTTGAAGGCTATCCAGCAAAACCCCCTTGAACTAATTCTAAGACAAGCCTATGCTGTG TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATCTAATTTGAAGGCTATCCCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGTG TACTATTCCTACTAGTAACTCAAATATTTGCTATTTGATGTAAATTGAAGGCTATCCCAGCAAAACCCCCTTGAACTATTCTAAGACAAGCCTATGCTGGTG	2585 2586 2599 2599 2599 2599
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2586 2587 2600 2600 2600 2600	TTCAGFATCATTTTCTGCAACTGATCATCTTGCGFTCTAGACTCGATACTGFTTATATTTCTGAAAATCTATTGTTGGCAACTTCTCATTGATGACATTGF TTCAGFATCATTTTCTGCAACTGATCATCTTGCGFTCTAGACTCGATACTGFTTATATTTCTGAAAATCTATTGTTGGCAACTTCTCATTGATGATGAT TTCAGFATCATTTTCTGCACTGATCATCTGCGFTCTAGACTCGATACTGFTTATATTTCTGAAAATCTATTGTTGGCAACTTCTCATTGATGATGAT TTCAGFATCATTTTCTGCACTGATCATCTGCGFTCTAGACTCGATACTGFTTATATTTCTGAAAATCTATTGTGGCAACTTCTCCATTGATGCATTGT TTCAGFATCATTTTCTGCAACTGATCATTGCGFTCTAGACTCGATACTGFTTATATTTCTGAAAATCTATTGTGGCAACTTCTCCATTGATGCATTGT TTCAGFATCATTTTCTGCAACTGATCATCTGCGGTTCTAGACTCGATACTGTTTATATTTCTGAAAATCTATTGTGGCAACTTCTCATTGATGCAATTGT TTCAGFATCATTTTCTGCAACTGATCATCTGCGGTTCTAGACTCGATACTGTTTATATTTCTGAAAATCTATTGTGGCAACTTCTCATTGATGCAATTGT TTCAGFATCATTTTCTGCAACTGATCATCTGGCGTCTAGACTCGATACTGTTTATATTTCTGAAAATCTATTGTGGCAACTTCTCATTGATGCAATTGT	2685 2686 2699 2699 2699 2699
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2686 2687 2700 2700 2700 2700 2700	TTETATEGECCTCAATCCCTGCCCTCCACETETETEGEGCAGAAATTTTEGAACAAAAATCCCAACCCACACCCCETAGATAATCTAGGATTTETCCCAATCCA TTETATEGECCTCAATCCCTGCCCTCCACETETETEGEGCAGAAATTTTEGAACAAAAATCCCAACCCACACCCGTAGATAATCTAGGATTTETCCCTATCCA TTETATEGECCTCAATCCCTGCCCTCCCACETETETEGEGCAGAAATTTTTEGACAAAAAATCCCAACCCAA	2785 2786 2799 2799 2799 2799

Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB	2786 2787 2800 2800	ΑΑΤΑΑΤΘΟΟΤΑΑGΘΟΘΑΤΑΤΤΑΤΘΥΤΑΘΑΑΑΤΟΟΤΤΟΑΘΑΘΥΓΟΑΑΤΥΤΤΘΑΤΟΑΑΑΤΑΤΟΥΘΥΑΘΥΤΘΥΤΥΤΑΛΤΟΥΤΟΟΤΥΤΟΑΤΥΤΟΑΤΥΤΟΑΤΥΤΟΑΑΑΤΑ ΑΑΤΑΑΤΘΟΟΤΑΑΘΘΟΘΑΤΑΤΤΑΤΟΥΤΑΘΑΑΑΤΟΟΤΤΟΑΘΑΘΥΓΟΑΤΥΤΥΤΘΑΤΟΑΑΑΤΑΥΟΥΘΥΑΘΥΤΑΘΥΤΥΤΑΛΤΟΥΤΟΟΤΥΤΟΑΤΥΤΟΑΤΥΤΟΑΤΟΥ ΑΑΤΑΑΤΘΟΟΤΑΑΘΘΟΘΑΤΑΤΤΑΤΟΥΤΑΘΑΑΑΤΟΟΤΤΟΑΘΑΘΥΓΟΑΤΥΤΥΤΘΑΤΟΑΑΑΑΤΑΥΘΥΠΑΘΥΤΑΘΥΤΑΤΟΥΤΟΟΤΟΥΤΟΟΤΟΥ ΑΑΤΑΑΤΘΟΟΤΑΘΕΘΟΘΑΤΑΤΤΑΤΟΥΤΑΘΑΑΑΤΟΟΤΤΟΑΘΑΘΥΓΟΑΤΥΤΥΠΟΑΤΟΑΑΑΤΑΥΘΟΠΑΘΥΤΑΘΥΤΑΤΟΥΤΟΟΤΟΥΤΟΟΤΟΥ Α ΑΤΑΑΤΘΟΟΤΑΘΕΘΟΘΑΤΑΤΤΑΤΟΥΤΑΘΑΑΑΤΟΟΤΤΟΑΘΑΘΥΓΟΑΤΥΤΟΑΤΟΥ ΑΘΥΤΩΟΤΟΥΤΟΥΤΑΘΥΤΑΘΥΤΟΑΟΤΟΥ ΑΤΑΘΟΤΑΘΕΘΟΑΤΑΥΤΑΤΟΥΤΑΘΑΘΑΤΑΥΤΑΤΟΥΤΟΥΤΟΥ ΑΘΥΤΩΝΑΥΤΑΘΥΤΑΘΑΤΟΥΠΟΥΤΟΥΠΑΘΥΤΩΑΤΟΥΠΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΟΥΤΑ ΑΤΑΛΤΘΟΟΤΑΘΕΘΟΘΑΤΑΤΤΑΤΟΥΤΑΘΑΔΑΤΟΟΤΟΥΠΟΑΤΟΥΤΑΘΑΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟΥΤΟΥΠΟ	2885 2886 2899 2899
Epi-d1-repeatC	2800	anianious, addough ai faigh agaal se i sagad sani fi ga sadan ai gi gaga ay i fangi i geni geni geni geni geni Aataataccetaagggatattatgttagaaatcetteagageaatttgateataatatgtgtagtagttaatgttgetteette	2899
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2886 2887 2900 2900 2900 2900	ТӨӨТССТТСТТТТССАВССТАТАВӨААВСТТЕСТАВӨАВСТАССАТССТӨАТӨГӨААСААРТААРТАСТААССАТТАТАТБӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨААВСТТЕСТАВӨАВСТАССАТССТӨАТӨГӨААСААРТААВТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨААВСТТВСТАВӨАВСТАССАТССТӨАТӨГӨААСААРТААВТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨААВСТТВСТАВӨӨАВСТАССАТССТӨАТӨГӨААСААРТААВТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨААВСТТВСТАВӨӨАВСТАССАТССТӨАТӨГӨААСААРТААРТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨӨАВСТТВСТАВӨӨАВСТАССАТССТӨАТӨГӨААСААРТААРТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС ТӨӨТССТТСТТТТССАВССТАТАВӨӨАВСТТӨСТАВӨӨАВСТАССАТССТӨАТӨТӨӨААСААРТААВТАСТААССАТТАТАТӨӨӨААТТӨРӨТТСАВСТАС	2985 2986 2999 2999 2999 2999
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	2986 2987 3000 3000 3000 3000	ACTOGATATATTGOTTCTTTTTTCTOCTTTCGATOCATTATAAACCTGAGTACTAGTTGTGTGTGTGCATTACCTTTTTCATAACTACATAAACTAAACAAATAAGCAATT ACTOGATATATTGOTTCTTTTTTCTOCCTTTCGATOCATTATAAACCTGAGTACTAGTTGTGGATTACCTTTTTCATAACTACATAATAAGCAATT ACTOGATATATTGOTTCTTTTTTCTOCCTTCGATOCATTATAAACCTGAGTGGTGGTGGATGACCTTTTTCATAACTACATAATAAGCAATT ACTOGATATATTGCTTCTTTTTCTOCCTTCGATOCATTATAAACCTGAGTGGTGGTGGATGACCTTTTTCATAACTACATAATAAGCAATT ACTOGATATATTGCTTCTTTTTCTCCTTTCGATOCATTATAAACCTGAGTGGTGGTGGTGGATTACCTTTTTCATAACTACATAATAAGCAATT ACTOGATATATTGCTTCTTTTTCTCCTTTCGATOCATTATAAACCTGAGTGGTGGTGGTGGATGACCTTTTTCATAACTACATAATAAGCAATT ACTOGATATATTGCTTCTTTTCTCCTTTCGATOCATTATAAACCTGAGTGATAGCTAGTTGGATGACCTTTTTCATAACTACATAATAAGCAATT	3085 3086 3099 3099 3099 3099
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3086 3087 3100 3100 3100 3100 3100	OTTATGCTTGTGTATTTTCTTTAGAGATCCTGGTGCTGAACAAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTCTTTAGAGATCCTGGTGCTGAACAAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTTCTTTAGAGATCCTGGTGCTGAACAAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTTTTTTGTTAGAGATCCTGGTGCTGAACAAAAGTTCAAGGATATGAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTTCTTTAGAGATCCTGGTGCTGAACAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTCTTTAGAGATCCTGGTGCTGAACAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCATAACCAAAT GTTATGCTTGTGTATTTTCTTTAGAGATCCTGGTGCTGAACAAAAGTTCAAGGATATTAGCAATGCTTATGAGGTTAGTCCAGCTAACCAAAATG	3185 3186 3199 3199 3199 3199
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3186 3187 3200 3200 3200 3200	CCCATTOTTCTTATGACTATGTTGTTGTAGGGTTACAGGTGCTTGCCAGCTAACATAAATAGGATTGCAGGTTTTGTCTGATGATGAGAAGCGATCAAT CCCATTGTTCTTATGACTATGTTGTTGTAGGGTTACAGGTGCTTGCCAGCTAACATAAATAGGATTGCAGGTTTTGTCTGATGAGAAGAAGCGATCAAT CCCATTGTTCTTATGACTATGTTGTTGTGAGGTTACAGGTGCTGCCAGCTAACATAAATAGGATTGCAGGTTTGTCTGATGAGAAGAAGCGATCAAT CCCATTGTTCTTATGACTATGTTGTTGTTGAGGTTACAGGTGCTGCCAGCTAACATAAATAGGATTGCAGGTTTGTCTGATGAGAAGAAGCGATCAAT CCCATTGTTTCTTATGACTATGTTGTTGTGAGGTTACAGGTGCTGCCAGCTAACATAAATAGGATTGCAGGTTTGTCTGATGAGAAGAAGCGATCAAT CCCATTGTTTCTTATGACTATGTTGTTGTAGGGTTACAGGTGCTGCCAGCTAACATAAATAGGATTGCAGGTTTGTCTGATGAGAAGCGATCAAT CCCATTGTTTCTTATGACTATGTTGTTGTAGGGTTACAGGTGCCGCCAGCTAACATAAATAGGATTGCAGGTTTGTCTGATGAAGAAGCGATCAAT	3285 3286 3299 3299 3299 3299
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3286 3287 3300 3300 3300 3300 3300	CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGAATGGGAACAGGAGTGAGTGATCCTAGAATGTTGTCCAATTCTGAAGTATGATCAGCATGA CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGAATGGGAACAGGAGTGAGTGTCCTAGAATGTTGTCCAATTCTGAAGTATGACGACATGA CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGGAACGGGAACAGGAGTGATCCTAGAATGTTGTCCAATTCTGAAGTATGATCAGCATGA CTATGATAATATGGAGAAGCTGG7TTGAAGGGTGCTGGGAATGGGGAACAGGAGTGATCCTAGAATGTTGTCCAATTCTGAAGTATGACGACCACTGA CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGGAATGGGGAACAGGAGTGATCCTAGAATGTTGTCCAATTCTGAAGTATGACGACACAGA CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGGAATGGGAACGGGAGTGAGTGTTCCCTAGAATGTTGTCCAATTCTGAAGTATGATCAGCATGA CTATGATAAATATGGAGAAGCTGG7TTGAAGGGTGCTGGGAATGGGAACAGGAGTGAGTGTTCCCTAGAATGTTGTCCAATTCTGAAGTATGATCAGCATGA	3385 3386 3399 3399 3399 3399
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3386 3387 3400 3400 3400 3400	CCTTTATATGATATTGATTGTATGAAATTTGTGAATCTGCAGGATTACTCAAACCCATTCGATCCTTTGAATCATTATTCGAAGGCTTTGGTGGAATGG CCTTTATATGATATTGATTGTAATGTAA	3485 3486 3499 3499 3499 3499
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3486 3487 3500 3500 3500 3500	ЭССАЛТССОАССССТСТСТСССААСАСАССАЛТССАСССТСАСАЛТСТВОССТАСАЛТСТССАТТТСАЛССААССССТСТАСАЛТССАСТССАТТТСАЛССАЛС	3585 3586 3599 3599 3599 3599
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3586 3587 3600 3600 3600 3600	ВААЛБАЛАТТОЛОЛТ САССАВАСТОВАЛВОСТОТАЛТАСАТОТОЛТОВАТОВАСТВОТОССАЛОССТОВАЛСВАЛССАЛССАСАТОСАЛАСАТОТОВАЛВА ЭАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАТОВАЛСТВОТОССАЛОССТОВАЛСВАЛССАЛССАСАТОСАЛАСАТОТОВАЛВА ЭАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАТОВАТОВОТОССАЛОССТОВАЛСВАЛССАЛОССАСАТОСАЛАСАТОТОВАЛВА ЗАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАТОВАЛСТВОТОССАЛОССТОВАЛСВАЛССАЛОССАСАТОСАЛАСАТОТОВАЛВО ЭАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАТОВАЛСТВОТОССАЛОССТОВАЛСВАЛАССАЛОСАСАТОСАЛАЛСАТОТОВАЛВО ЗАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАЛСТВОТОССАЛОССТОВАЛСВАЛАССАЛОСАТОСАЛАСАТОТОВАЛВО ЗАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАЛСТВОТОССАЛОССТОВАЛСВАЛАССАЛАССАТОСАЛАЛСАТИОТОВАЛВО ЗАЛАБАЛАТТОЛВАТСАССАВАСТОВАЛВОСТОТАЛТАСАТОТОВАТОВАЛСТВОТОССАЛОССТОВАЛСВАЛАССАЛАССАЛТОСАЛАЛАСАТОТОВАВОА ЗАЛАВАЛАТТОЛВАТСАССАВАСТВОЕЛОСТОТАЛТАСАТОТОВАТОВАЛСТВОТОССАЛОССТВОЛАССАЛАССАЛОСАЛТОСАЛАЛСАТОТОВАВОА	3685 3686 3699 3699 3699 3699
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3686 3687 3700 3700 3700 3700 3700	CASGGACAASTGOTCTCCAACAAGAACGCCACTTGGAATATTCCAGCAGGATCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTCTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTCTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTCTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTCTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTTACCCCGT CASGGACAASTGGTCTCCTCAACAAGAACGCCACTTGGAATATTCCAGCAGGTCTCCACCTGCAATACTTGCGGAGGCACTGGTGAATTCTACCCCGT	3785 3786 3799 3799 3799 3799
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3786 3787 3800 3800 3800 3800	BCAACACTTGTGGGGGTGATGGCCGAGTGCGGGAGACAAAAAGGATCAGTCTAAAGGTTCCTGCTGGTGTTGATTCTGGAAGCAGATTGAGGGTCCGGTC GCAACACTTGTGGGGGTGATGGCCGAAGGCGAAGACAAAAAGGATCAGTCTAAAGGTTCCTGCTGGTGTTGATTCTGGAAGCAGATTGAGGGTCCGGTC GCAACACTTGTGGGGGTGATGGCCGAGGGGGGGGGG	3885 3886 3899 3899 3899 3899
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3886 3887 3900 3900 3900 3900	TBAGGGBAATGCTGGGCGGAGAGGBGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGAGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGAGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCTTTTTAAGCGAGATGGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGAGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGAGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGGACAAACATT TGAGGGGAATGCTGGGCGGAGAGGAGGCCCTCCTGGAGATCTTTATGTGTTTATTGATGTTCTCTCTGATCCTGTTCTTAAGCGAGATGGGACAAACATT	3985 3986 3999 3999 3999 3999
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	3986 3987 4000 4000 4000 4000	CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACAACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACAACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACAACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACGACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACGACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACAACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA CTATACACATGCAAAGTTTCATATATTGACGCAATTCTTGGGACAACCGTCAAGGTTCCCACTGTTGATGGGATGGTTGACCTGAAGATCCCCTCCGGTA	4085 4086 4099 4099 4099 4099
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	4086 4087 4100 4100 4100 4100	CCCASCCASSCACAACSTTASTSATSCCAASAAASSTSTCCCACTCCTGSGAASTCAAATSCTCSTSGASACCASCTASTSCSTSGASACCASCTASTSCSTSGASAASS CCCASSCCASSCACAACSTTASTSATSTCCAASAAASSTSTCCCACTCCTGSGAASTCAAATSCTCSTSGASACCASCTASTSCSTSTSCASSTCSASSTCSASST CCCASCCASSCACACSTTASTSATSTCCAASAAASSTSTCCCACTCCTGSGAASTCAAATSCTCSTSGASACCASCTASTSCSTSTSCASSTCSASST CCCASCCASSCACACSTTASTSATSTCCAASAAASSTSTCCCACTCCTGSGAASTAATSCTCSTSGASACCASCTASTSCSTSTSCASSTCSASST CCCASSCCASS	4185 4186 4199 4199 4199 4199

Fig. S2 continued.

Nipponbare-repeatA			
Pag 44	4186	TCCAAAGCGTCTGAGCABCGACGAGGAGGAAGCTGATTGAAGAACTTGCAAACCAAGGCTCAAACAGCAAACAGCAAGAGAGATAATTCCATGAGGCT	4285
Epi-di-repeata	4187	tccaaagcgtctgagcaacgaggaggaaggaaggaaggaa	4286
Nipponbare-repeatB Eni-d1-repeatB	4200	TCCAAASCHTCTGASCASCGACGASAGGAAGCTGATTGGAAGAACTTGCAAACCAAGGCTCCAAACAGCAACAGCAACAGCAACAGCAACAGCAACAGCAACAGCAACAG TCCAAASCGHTCTGASCASCGACGASGAAGATTCCATGAAGAACTTGCAAACCAAGGCTCAAACAACAGCAACAGCAAGAAGAATAATTCCATGAGGCT	4299
Nipponbare-repeatC	4200	TCCAAAGCGTCTGAGCAGCGACGAGAGGAAGCTGATTGAAGAACTTGCAAACCTAAACAAGGCTCAAACAGCAGGAGATAATTCCATGAGGCT	4299
Epi-d1-repeatC	4200	TCCAAASCOTCTGAGCASCGACGAGAGGAAGCTGATTGAAGAACTTGCAAACCTAAACAAGGCTCAAACAGCAAAACAGCAGGAGATAATTCCATGAGGAC	4299
Nipponbare-repeatA	4286	TCATTGGACAAAATGCTTTGGCAATATGCAATTTTAACGCAAATTGCAGTGACTAAGTGAGCATGAACTGGTAAATCACTTCACAAACTGTACGCTCATG	4385
Epi-d1-repeatA	4287	TCATT6GACAAAATGCTTT6GCAATAT6CAATTTTAAC6CAAATT6CA6T6ACTAA6T6A6CAAGAACT66TAAATCACT7CACAAAACT6FTAC6CTCAT6	4386
Nipponbare-repeatB	4300	ТСАТТБОАСААААТОСТТТОССААТАТОСААТТТТААСОСАААТТОСАОТОАСТААОТОАОСАТОААСТООРАААТСАСТТСАСАААСТОРАСОСТСАТО ОТТООТОСО ОТТООСТТООСААТАТОСААТТТТААСОСАААТТОСАОТОАСТААОТОАОСТАОТОААСТООРАААТСАСТТСАСАААСТОРАСОСТСАТО ОТТООТОСО ОТТООСТООТОСАСТАТО	4399
Ninnonhare-reneatC	4300	ICATTOSACAAAATOCITIGGCAATATOCAATITIAACUCAAATTOCAGIGACIAAGIGAGCATGAACIGGTAAATCACITIACUCITACUCICAT TCATTOSACAAAATGCITTOGCAATATTCCAATTTTAACCCAAATTOCAGIGACIAAGIGAGCATGAAAATCACTCCCACACAATGAACGCCAATGAAA	4399
Epi-d1-repeatC	4300	TCATTGGACAAAATGCTTTGGCAATATGCAATTTTAACGCAAATTGCAGTGACTAAGTGAGCATGAACTGGTAAATCACTTCACAAAACTGTACGCTCATG	4399
Tinnenheve veneet»	4204	ФРО-ССОЛ 3 Л. 10 ССПОСТ 3 3 ЛИСИС 3 В ПИЛИ 2 В ПОЛИТИ В 3 ЛИПИ 3 В ЛОГО 3 В 3 ЛИСИ 3 В 3 ЛИСИ 3 В 3 ЛИСИ 3 В 3 ЛОСО 3 В	4405
Epi-d1-repeatA	4387	CTGCGCCCFTACCATCGGFTGGGAACTGTGAACTCCATGTCTGTAACTTCATTTTTTAAGCCATAGAAATCTAGTTCCATCCA	4486
Nipponbare-repeatB	4400	CTGCGCCCGTACCATCGGTGGGAACTGTGAATTCTCATGTCTGTAACTTCATTTTTAAGCCATAGAAATCTAGTTCCATCCA	4499
Epi-d1-repeatB	4400	CTGCGCCGTACCATCGGTGGGAACTGTGAATTCTCATGTCTGTATACTTCATTTTTAGGCCATAGAATCTAGTTCCATCCA	4499
Epi-d1-repeatC	4400	CTGCGCCCBTACCATCGGTGGGAACTGTGAATTCTCATGTCTGTAACTTCATTTTTTAAGCCATAGAAATCTAGTTCCATCCA	4499
·····	4404		4505
Mippondare-repeata Epi-d1-repeata	4485	STITTAA MSTMOOTIGTA TA TOOTITTA MGOGMOOTTATTA ATTACTATTATAA TAOTITTTA AASTMOOTIGTA TAATAGOOTIGTA AA MAGOOTIGTA STITTAA ABTMAOTIGTA TA TAAGOOTIGTA AA GOOGMOOTMATTATAA TATTTTAA AA AA AA AA AA AA AA AA	4585
Nipponbare-repeatB	4500	ottttacagtagcttgtcatatgcttttaggcgagcttattagtctatttttcataatacttttttcacaatttttgaaaggcctagggagaaatatttaat	4599
Epi-d1-repeatB	4500	BTTTTACABTASCTTBTCATATGCTTTTAGGCGASCTATTASTCTATTTTCCATAATACTTTTTCACAATTTTGAAASGCCTAGGGAGAAAAATATTTAAT	4599
Mippondare-repeatu Epi-d1-repeatu	4500 4500	STITTA ABTAGSTOTCATARGSTTTTAGGGAGATTATTASTCIATITTTCATAATACITTTCACAATTITGAAAGGCTAGGGAGAAATATTTAAT STITTACAGTAGCTGATAGGATTTTAGGGAGCTATTAGGCAATTITCACAATTIGAAAGGCTAGGGGAGAAATATTTAAT	4599
Nipponbare-repeatA	4586 4597	SETECAAAAGEGACGAETTTEAAACATTTETTECCAEAAGCACCAEACCAE	4685
Nipponbare-repeatB	4600	GGTGCAAAAGGGACGAGTTTTGAAACATTTGTTTGTCGCAGAAGCACCAGACCATTCTGATTGTTATGTAAGCTGTAACATCAAAGTTTTGGCAGCAGG	4699
Epi-d1-repeatB	4600	BGTGCAAAABGGAACGAGTTTTGAAAACATTTGTTTGTCGCAGAAGCACCAGACCATTCTGATTGTTATTGTAAGCTGTAACATCAAABTTTTGGCAGCAGG	4699
Nipponbare-repeatC	4600	ЭСРБСААЛАСБОАССВОРТТТБАЛАСАТТГСТТСГССАВАЛАСССССАВССАТТСТБАТРСТАТТСТАЛССТСРАСТАТСАЛАСТСТАЛСАЛСАЛСАЛСАЛСТАТСАЛАС СОЛОСА И АСБОАССВОРТТБАЛАСАТТГСТТСГССАВАЛАССАСССАВССАТТСТБАТРСТАТТСТАЛСТАЛАСТСАЛСАЛСАЛСАЛАСТТАТБАСАВСАВС СОЛОСА И А ПОСЛЕТЕТБАЛАСТТРБАТЕТСТСССАВАЛАСТАТСТВАТРСТВАТРСТАЛТСТВАТРСТАЛСТВА И СОЛОСАИ САЛАСТТАТСАЛОСТАССАВС	4699
spi-di-repeace	4000	001004888800000001111088804111011101000008880040040040041101081101181101880010188041048801111000800480	4077
Nipponbare-repeatA	4686	TTTTCATGTGCTCTTAAGCGTTGGGGGTTTGTTCCGTTTGGTTTCAACTGTATGCTAGCTA	4785
Epi-d1-repeatA Winnonbare-repeatB	4687	TTTTCATGTGCTTTAAGGGTTGGGGGTTTGTTCGGTTTGGTTTCAACTGTATGCTASCTTTCTCTATTAGCCAATGTAATGGCASTTGCAAAATCTST TTTTTCATGTGCTCTTAAGGGTTGGGGGTTTGTTCCGTTTGGGTTTTCAACTGTATGCTASCTTTCTCTATTAGCCAATGTAATGGCASTTGCAATGTTGT	4786
Epi-d1-repeatB	4700	TTTTCATGTGCTCTTAAGCGTTGGGGGTTTGTTCCGTTTGGTTTTCAACTGTATGCTAGCTA	4799
Nipponbare-repeatC	4700	TTTTCATGTGCTCTTAAGCGTTGGGGGTTTGTTCCGTTTGGTTTTCAACTGTATGCTAGCTTTCTCTATTAGCCAATGTAATGGCAGTTGCAAAATCTGT	4799
Epi-d1-repeatC	4700	TTTTCATGTGCTCTTAAGCGTTGGGGGGTTTGTTCCGTTTGGTTTTCAACTGTATGCTAGCTTTCTCTATTAGCCAATGTAATGGCAGTTGCAAAATCTGT	4799
Nipponbare-repeatA	4786	TGTAGTGCAGGCGTGCAGCTAAATGCAGTATAGCTGACTGTTAACTTTAAGCTGATTGTTCCATGCATG	4885
Epi-d1-repeatA	4787	ТОТАВАТСОВОСОГОСОВСТВААТОСАВСТАТАВСТОВАСТОТТААСТТТАВСТВАТТОТТССАТОСАТОССОВТАВАВАОССАЮТСОВОВАТОВОСТО ТОТАВОТОСАВОСОГОСОВСТВААТОСАВСТАТАВСТВОАСТОГТААСТТТАВСТВАТТОТТССАТОСАТОСАТОВСОВОТО СОВОТОВОВАТОВОТО ТОТА СПОЛНОСОВСТВОАТОВАТИИ ПО СПОЛНОТОВИ А СПИНИИ ОТОСНОТОВСТВОАТОВСТВОЕ СПОЛНОТОВОТОВОТОВОТОВОТОВОТОВОТОВОТОВО	4886
Nipponbare-repeatB Eni-d1-repeatB	4800	ngtabite absolute abstratabile abstratabile activita activitate stability ti to cativity to constratabile casi to absarbabile absolute abstratabile absolute a Testabile absolute	4899
Nipponbare-repeatC	4800	TGTAGTGCAGGCGTGCAGCTAAATGCAGTATAGCTGACTGTTAACTTTAAGCTGATTGTTCCATGCATG	4899
Epi-d1-repeatC	4800	TGTAGTGCAGGCGTGCAGCTAAATGCAGTATAGCTGACTGTTAAGCTGATTGTTCCATGCATG	4899
Nipponbare-repeatA	4886	CATGGATCAATATATGGTGCAGACATGTCAGTAGGATATAGGAGTATTACATTATAGTTTTTTCAGCTTCAATAACGTTCATGTTAGCTTGTACATTGTA	4985
Epi-d1-repeatA	4887	CATGGATCAATATATGGTGCAGACATGTCAGTAGGATATAGGAGTATTACATTATAGTTTTTTCAGCTTCAATAACGTTCATGTTAGCTTGTACATTGTA	4986
Nipponbare-repeatB Eni_d1_repeatB	4900	Ο ΑΤΘΘΑΤΟ ΑΝΤΑΤΑΤΘΟΤΕΟ ΑΘΑ Ο ΑΤΟ ΤΟ ΑΟΤΑΘΟΑΤΑΤΑΘΟΑΕΤΑΤΤΑΟ ΤΑΤΤΑΟΤΤΤΑΤΟ ΤΟ ΑΟΤΟ ΤΟ ΑΛΤΑΑ Ο ΟΤΤΟ ΑΝΤΑΚΟΤΤΟ ΑΤΟ ΤΑ Ο ΑΠΘΘΑΤΟ ΑΝΤΑΤΑΤΘΟΠΟΣ ΑΘΑ Ο ΑΠΟΤΟ ΑΟΤΑΘΟΑΤΑΤΑΘΟΑΕΤΑΤΤΑΟ ΤΑΤΤΑΟΤΤΤΑΤΟ ΤΟ ΑΟΤΟ ΤΟ ΑΑΤΑΑ Ο ΟΤΤΟ ΑΝΤΑΤΟ ΤΟ ΤΟ ΤΟ Ο Ο ΑΠΟΘΑΤΟ ΑΝΤΑΤΑΤΘΟΠΟΣ ΑΘΑ Ο ΑΠΟΤΟ ΑΟ ΤΑ Ο ΕΛΑΤΑΤΑΘΟΑΕΤΑΤΤΑΟ Ο ΑΠΟΙΑΤΑΟΤΤΤΑΤΟ Ο ΑΟΤΟ ΑΛΤΑΑ Ο ΟΤΤΟ ΑΝΤΑΤΟ ΑΟ ΤΟ	4999
Nipponbare-repeatC	4900	CATGGATCAATAATAGGTGCAGACATGTCAGTAGGATATAAGGATATTACATTATAGTTTTTTCAGCTTCAATAACGTTCATGTAGCTTGTACATTGTA	4999
Epi-d1-repeatC	4900	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		Calobal Caalala 10010CabaCalol Cablabbabala 1abbabi al 1acal 1alabi 1111 (CabCil Caalaacol 1 Calol 1abcil 61acal 161a	4999
Nipponbare-repeatA	4986	CHIODRIVARIAINIOJOCADRVAIDIVADIRUDDIAIRDORIAIRDORI INVALIAIRRENTITIVROVITVARIARDORI VALUTIADORI DI NVALUDIRUDIR TEGECARCOCTTOCATACCTTECCTTABCCACAAAADTTCACCATEDTABCTTEGCTTTAGATCAGTTTAAACTETCCTTTAATAGCAAATTAATAATCCAT	4999 5085
Nipponbare-repeatA Epi-d1-repeatA	4986 4987	CRIGGRI CRAININGOTOCRORNALGTAGOTRAGOTRI ROGRITI I ACEITARI FITTE CROCITARACTOTOCOTTA ACTOTRACITOR ACTOTRACIA DA TEGCAACCOTTOCATACTTECETTAGCCACAAAAGTTCACCATEGTTAGCTTEGCTTTAGATCAGTTTAAACTETCCTTTAATAGCAAATTAATAATCACAT TEGCAACCOTTCCATACTTECETTAGCCACAAAAGTTCACCATEGTTAGCTTEGCTTTAGATCAGTTAAACTETCCTTTAATAGCAAATTAATAATCACAT	4999 5085 5086
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Fri-d1-repeatP	4986 4987 5000	CRIODAL CARLELIGO TO CROWNED TO CARLED THE ROOM FILL ROOM FILL ROAL FRIEND FILL CORFT FARACTER CONTRAINED TO TRAIL TO TR TEGCARCCTTC CATACTTE CONTAGOCAC ARABETT CACCATERT TAGCTTEGCTTE AGAT CART TAACCTET CONTAATAGCARATTAATAAT CONT TEGCARCCTTC CATACTTE CONTAGOCAC ARABETT CACCATERT TAGCTEGGCTETABAT CART TAACCTET CONTAATAGCARATTAATAAT CONT TEGCARCCTTC CATACTTE CONTAGOCAC ARABETT CACCATERT TAGCTEGGCTETABAT CART TAAACTET CONTAATAACAAATTAATAAT CONT TEGCARCCTTC CATACTTE CONTAGOCAC ARABETT CACCATERT TAGCTEGGCTETABAT CART TAAACTET CONTAATAACAAATTAATAAT CONT TEGCARCCTTC CATACTTE CONTAGOCAC ARABETT CACCATERT TAGCTEGGCTETABAT CART TAAATAACTET CONTAATAATAACAAATTAATAAT CONT	4999 5085 5086 5099
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC	4986 4987 5000 5000 5000	СПОРЫС ЧАЛ В ИЛОРГСАВИЧАЛОТ ЧАР ВОВЛЕГИ ВОВРЕИ И ВОВРЕИ И ВОЛГИ ВОГЛЕТИИ СВОГЛЕ АВЛЕВССИ САВЛЕВСИ И ВОСЛЕВИИ В ТВОСААССТИССАТАСТИЧСЕТИ ВОСАСАЛАВИТСАССИТЕТИВОТ ПОВОГИТАВИТ САВРТИАЛАСТВОСТИТАЛАВСА АЛТИАЛИЗАТАТА ПОВСААССТИТСАТАСТИЧСЕТИ ВОСАСАЛАЛЯТСАССИТЕТИВОТИВОСТИВОВ САВРТИАЛАСТВОСТИТАЛАВСА АЛТИАЛИЗАТАЛИ ПОВСААССТИТСАТАСТИЧСЕТИВОСАСАЛАЛЯТСАССИТЕТИВОТИВОСТИВОВ САВРТИАЛАСТВОСТИТАЛАВСЯ АЛТИАЛИЗАТАЛИ ПОВСААССТИТСАТАСТИЧСЕТИВОСАСАЛАЛЯТСАССИТЕТИВОТИВОВ СИВРИАЛАСТВОСТИТАЛАВСИ САВРТИАЛАСТВОС СИТИТАЛИВОСАЛИТИАЛИЗАТ ПОВСАЛОСТИССИТАСИТОВИТАВОСАСАЛАЛЯТСАССИТИВОТИВОСТИВОВ САВРТИАЛАСТВОТСТИТАЛИВОСАЛИТИАТАВСАЛИТИАЛИВОСАСИ ПОВСАЛОСТИССИТАСИТИВОСАСАЛАЛЯТСАССИТИВОТИВОСТИВОСТИТАВИТСАРИТИАЛАСТВОССИТИТАЛИВОСАЛИТИАТАВСТСИТ ПОВСАЛОСТИТССИТАСИТИВОТАВССАСАЛИЛЯТИ САВРТИЛИСТИВОСТИВОВИТИВОИ.	4999 5085 5086 5099 5099 5099
Kipponbare-repeatA Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatB Kipponbare-repeatC Epi-d1-repeatC	4986 4987 5000 5000 5000 5000	СПОЧИЦАЛ В ПОЛОЧОСЛОЖАЛОТАЮТНОВО ПО ВОЗВОЛИТИ ВОЗВОЛИТИИ ВОГГОТОВОГО ПАВЛОВОСТОВОСТВАЛОТОВОСТВАЛОТОВОСТОВИИ В ТОБСАЛССТИТО САПАСТИВОЕТТАВОСАС АЛАЛЕЙТСАССИТИТИВОСТИВОСТИ ВАВЛО САБУТИВАЛСТВОСТИ ТАЛАТАВО АЛАТИАЛ ВАЛИТАЛ ТОБСАЛССТИТО САПАСТИВОЕТТАВОСАС АЛАЛЕЙТСАССАТИТИВОСТИВОСТИ ВАВЛО САБУТИВАЛСТВОТСТИТАЛИ ВА САЛАТИАЛ ТАЛИСОМ ТОБСАЛССТИТО САПАСТИВОЕТТАВОСАС АЛАЛЕЙТСАССАТИТИВОСТИВОЕТТИВОВ САБУТИВАЛСТВОТСТИТАЛИ ВА САЛАТИАЛ ТАЛИСОМ ТОБСАЛСОТИТО САПАСТИВОЕТТАВОСАС АЛАЛЕЙТСАССИТИТИВОЕТТИВОЕТТИВОВ САБУТИВАЛСТВОТСТИТАЛИ ВО САЛАТИАЛИ ВА ТО АЛИТАЛ ТОБСАЛСОТИТО САПАСТИВОЕТТАВОСАС АЛАЛЕЙТСКОСИТИВОЕТТИВОЕТТИВОВ САБУТИВАЛСИВОТИТАЛАЛСТВОТСТИВАЛИ ВА СОВУТИВАЛСЯ С ПОВСАЛСОТИТО САПАСТИВОТИВОСАС АЛАЛЕЙТСКОСИТИВОЕТТИВОЕТТИВОЕТТАВАТСАВУТИВАЛСИВОСТИВОТИВОСТИВАЛИ ВАТОСАВИТИВАЛСИВОТИТАЛИ ВА САВИТИВАЛИ В ПОВСАЛСОТИТО САПАСТИВОС САСАЛАЛЕЙТСКОСИТИВИТИВОЕТТИВОЕТТИВОЕТТИВОИ САВУТИВАЛСИВОТИТАЛИ ВО САЛИТИВИТИВИТСЯ ПОВСАЛСОТИТО САПАСИТИВОСАС АЛАЛЕЙТСКОСИТОВИТИВОСТИВОЕТТИВОЕТТАВИТСЯВИТИВАЛСИВОТИТИВАЛСЯ СТИВИТИВАТИВОТСЯ АЛИТИВИТСЯ ПОВСАЛСОСИТОСАТАСИТИВОСАС АЛАЛЕЙТСКОСИТИВИТИВОЕТТИВОЕТТИВОЕТТИВОИТАЛИ В ПОВИТИВАЛСИВОТИТИВАТСЯВИТИВАТИВОТОВОТИВОСТИВОСТИВОИ ПОВИТИВАЛИТИВОТОВОТИВОТИ ВАЛИ ВО ПОВИТИВИ ПОВСАЛСОСИТОСАТАСИТИВОСАС АЛАЛЕЙТСКОСАТИВИТИВОСТИВОЕТТИВОЕТТИВАТСЯВИТИВАЛСЯ ПОВИТИВАЛСЯ ВО СИТИВАТИВОСАЛАТИВАТИССИ	4999 5085 5086 5099 5099 5099 5099
Wipponbare-repeat& Epi-d1-repeat& Mipponbare-repeat& Epi-d1-repeat& Mipponbare-repeatC Epi-d1-repeatC Mipponbare-repeat&	4986 4987 5000 5000 5000 5000	СПОЧИЦАЛ И ПЛООТОСЛОЖ-ВІОТ-ВОТЛОФИЛИ ВОВОГИ ЛАСОВОТИ ЛАСЛИВИ И ПОТИТ ТОВОГЛИ ВОСЛАВЛОВИ В СОЛОВИИ В СОЛОВИИ В С ТОБОЛАСССТИ САЛАСТИВСОВИТАВСАСАЛАЛАВИТСА. САПОТИВСИТИВСИТИ ЛАВИТ САВИТИЛАЛОГОИ СИТИЛАТАВСАЛАНИ АЛТОЛИ П ПОСАЛССИТИ САЛАСТИВСИТИВСАСАЛАЛАВИТСА. САПОТИВСИТИВСИТИ В СОЛОВИТИЛАЛСИ СТОИТИЛАЛИ В САЛАНИ АЛТОЛИ В ТОБО СЛАССИТИСИ ТИВСИТИВСИ САСЛАЛАВИТСА. САПОТИВСИТИВСИТИ В СЛОИТИВСИ С В СОЛОВИТИВСИ ПО В САЛАТИЛИ В САЛАТИЛИ Т ПОСАЛССИТИСИ ПО СОЛОВИТАВСИ САСЛАЛАВИТСА. СОПОТИВСИТИВСИ С АВИТИЛАЛСИ В СОПОТИВСИ ПО В СОЛОВИИ В САЛАТИЛИ ТАЛ ПОСАЛССИТИ САПОСТИВСИ ПО В СОЛОВИИ В СОСЛОВИИ В СОПОТИВСИ С АВИТИВСКИ. ПО СОЛОВИИ В СОПОТИВСИ С САСЛАЛАВИТСА СО ПО В СОПОТИВСИТИ В САВИТИВАЛСИ В СОПОТИВСИ В САЛИТИЛИ В САЛИТИВСИ В ПО САЛИСИИ В СОПОТИСИ В СОСЛАЛАВИТСА. СОПОТИВСИ ТИВСИТИВСИ САВИТИВЛИ В СОПИТИВАТИВИ. ПО САЛИСИТИ САПИСИТИВСИ В СОПОСИЛАЛИ В СОПОТИВСИ В САВИТИВСИ В САВИТИВСИ В СОПИТИВАТИВИ. ПО САЛИСИТИ САПИСИТИВСИ В СОПОСИВИИ В СОПОТИВСИ В САВИТИВИИ В СОПИТИВАТИВИ. ПО САЛИСИТИ С АПИСИТИВИ В СОЛАВИТАТИВСИ В СОПИТИВСИ В САВИТИВИИ В СОПИТИВАТИВИ. ПО САЛИСИТИ С АПИСИТИВИ В СОПОСИВЛИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПОСИВАНИЕМИ В СОПИТИВИИ В СОПИТИВИ ПО САЛИСИТИ С АПИСИТИВИИ В СОПИСИВИИ В СОПИТИВСИТИВОИ В СОПИТИВАТИВИ В СОПИТИВАТИВИ В СОПИТИВИИ В СОПИТИВИИ В С ПО С В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПИТИВИИ В СОПИСИВИИ ПО С В СОПИСИВИИ В СОПИСИВИ ПО С В СОПИСИВИИ В СОПИСИВИ ПО В СОПИСИВИИ В СОПИСИВИИ ПО В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ В СОПИСИВИИ ПО В СОПИСИВИИ В СОПИСИВИИ ПО В СОПИСИВИИ В ПО В О ПО В СОПИВИИ В СОПИСИВИИ В	4999 5085 5086 5099 5099 5099 5099 5099
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC Nipponbare-repeatA Epi-d1-repeatA	4986 4987 5000 5000 5000 5000 5086 5086	CRIGGRIC MAIN INFO OCTOR SECTION AND TRADED IN ROOM OF INTRODUCTION CALL AND THE CONTENT AND T	4999 5085 5086 5099 5099 5099 5099 5099 5185 5185
Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatC Epi-d1-repeatC Mipponbare-repeatA Kipponbare-repeatB	4986 4987 5000 5000 5000 5000 5086 5087 5100	СИТОФЫ СИЛТИТО ПООТОСНОВСНИКОТОВОТ А СОВЫТИ ВООВЛЕГИ ВООВЛЕГИ ВООВЛЕГИ ВОЛГТИ СВОГТИ САВСОВОГОВОС ВО ВО ВО ВО В ТОБСАВССТТССАТА СТРОСОТТАВОСА САВАВОТ САССАТОТТАВОТТОВОСТТВАВАТ СВОТТИАВАТ СОГОТОТТАВИАСТИ СИТОВА ВАВАТТАВИТАВИ ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТАВОСТОВОСТТВАВИТСЯ ОТ ТАВАВАСТОР ССТТИВАТАВО АВАТТАВИТСЯ ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТИВОСТТВООТТАВАВ САВОТТАВИАТСЯ СТИТИВИТАВО ВАВИТАВИТАВИТСЯ ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТИВОСТВООТТАВАВ САВОТТВАВАТОВОСТТВАВИТОВОСТИТАВИТАВО ВАВИТАВИТАВИТ ОВСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТИВОСТВООТТАВАВ САВОТТВАВАТОВОСТВИАЛОТОВОСТВИВАТОВОСТВИВАТОВОСТВИВА ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТИВОСТВООТТВАВИТСАВОТТВАВИТОВОСТВИВАТОВОСТВИТАВИТОВИТОСТВИТАВИТСЯ ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТ САССАТОРТАВОСТВООТТВАВИТСАВОТТВАВИТОВОСТВИВАТОВОСТВИВАТОВОТОВОТОВОТАТАВИТОВОТОВОСАТИВАВИТОВИТОВОС ТОБСАВССТТССАТА СТВОСОТАВОСА САВАВОТТА ССАТОРТИВОСТВООТТВАВИТСАВОТТВАВИТОВОСТВИТАВИ. ТОБСАВССТВОСАТАСТВОСОТВАВСКА САВАВОТОВОСТВООТОВОТОВИТОВИТОВИТОВИТОВОТОВОТОВИТОВОТОВО	4999 5085 5086 5099 5099 5099 5099 5185 5186 5186
Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatC Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatB Epi-d1-repeatB Epi-d1-repeatB	4986 4987 5000 5000 5000 5000 5086 5087 5100 5100 5100	Си тобы с мал и полотосновсяются то с которовани новодоти и коли ти новоти и тобо с лассовате с малоти ности то како и ности то како и полотося и и по полотося и полотося и по полотося и полотося по полотося и полотося по полотося и полотося по полотося и полотося по полотося и полотося и полотося и полотося и п	4999 5085 5086 5099 5099 5099 5099 5185 5186 5199 5199 5199
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Kipponbare-repeatA Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatB Kipponbare-repeatC Epi-d1-repeatA Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatC Miponbare-repeatC Epi-d1-repeatC	4986 4987 5000 5000 5000 5086 5087 5100 5100 5100 5100	CRIGHICARIAIIINOTOCARAWARDINASI ROBINI RAGORDINI RAGORDINI RAGI I RIGJI III CORDI III CARCI INALIACOTI NALTAROTI ROTI DI REALIDIR TGGCAACCOTTOCATACTEOGTTAGOCACAAAAGTICACCATETTAGOTTGGCTTAGAT CAGTITAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTTAGOCACAAAAGTICACCATETTAGOTTGGCTTAGATCAGTTAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTTAGOCACAAAAGTICACCATEGTTGGCTTAGATCAGTTAAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTTAGOCACAAAAGTICACCATEGTTGGCTTAGATCAGTTAAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTTAGOCACAAAAGTICACCATEGTTGGCTTAGATCAGTTAAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTAGOCACAAAAGTICACCATEGTTGGCTTAGATCAGTTAAAACTGTOCTTTAATAGOAAATTAATAATOCAT TGGCAACCOTTOCATACTEOGTAGOCACAAAAGTICACCATEGTTGTGGCTTAGATCAGTTAAACTGTOCTTTAATAGCAAATTAATAATOCAT TGGCAACCOTTCCATACTEGTTAGOCACAAAAGTICACCATEGTTGTGCTCAGOCTAGAACGAGAGAACGTGAGGAGTOCAGCAAAATTAATAATOCAT TGGCAACCOTTCCATACTEGTTAGOCACGAAAGTACTGTTCTACCACCAGGGTTCAACAGCTGAGAAACGTGAGGAGTOCAGCAGAGAAGTACCAT AAATGAAATTTTACTTCCACTEGTTAGOCAGCACATACTGTTCTACCTOCAGCGTTCAACAGCTGAGAAACGTGAGGAGTOCAGCACCAGCGAGACGATACCAT AAATGAAATTTTACTTCCACTGTTTACCAGTGCTACTACTGTTCTACCTCCAGCGTTCAACAGCTGAGAAACGTGAGGAGTCCAGCACGACGAGAACGATACCAT AAATGAAATTTTACTTCCACTGTTTACCAGTGCTACTACTGTTCTACCTCCAGCGTTCAACAGCTGAGAAACGTGAGGAGTCCAGCACGACGAGAACGATACCAT AAATGAAATTTTACTTCCACTGTTTACCAGTGCTACTACTGTTCTACCTCCAGCGTTCAACAGCTGAGAAACGTGAGGAGTCCAGCCAG	4999 5085 5099 5099 5099 5099 5185 5186 5199 5199 5199 5199
Kipponbare-repeatA Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatB Kipponbare-repeatC Epi-d1-repeatC Kipponbare-repeatA Kipponbare-repeatB Kipponbare-repeatC Epi-d1-repeatC Kipponbare-repeatC Kipponbare-repeatA Kipponbare-repeatA	4986 4987 5000 5000 5000 5086 5087 5100 5100 5100 5100 5186 5187	CRIGHICARIAIIIIOOTOCABASAIOTASTROOMINIABODDINI ROODTINI ACTIVALIA ILIIONTIIIIIODOTOCABASAIOTASCIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	4999 5085 5099 5099 5099 5099 5185 5186 5199 5199 5199 5199 5199
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Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatC Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatC Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Epi-d1-repeatB Epi-d1-repeatC	4986 4987 5000 5000 5000 5086 5100 5100 5100 5100 5186 5187 5200 5200 5200	CRIGHICARIAIIIIOUTOCARE-ABUTABUTABUTABUTABUTABUTABUTABUTAL INCALIAINA IIIIICADU IIA AUDITABUTABUTABUTABUTABUTABUTABUTABUTABUTABU	4999 5085 5086 5099 5099 5099 5185 5186 5199 5199 5199 5199 5286 5299 52299 52299
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Kipponbare-repeatA Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatB Kipponbare-repeatC Epi-d1-repeatA Kipponbare-repeatA Kipponbare-repeatB Kipponbare-repeatC Kipponbare-repeatA Kipponbare-repeatB Epi-d1-repeatA Kipponbare-repeatB Epi-d1-repeatA Kipponbare-repeatC Epi-d1-repeatC Kipponbare-repeatC Epi-d1-repeatC Kipponbare-repeatC Spi-d1-repeatC	4986 4987 5000 5000 5000 5086 5087 5100 5100 5100 5100 5100 5186 5187 5200 5200 5200 5200 5200	Toge account of the construction of the constr	4999 5085 5086 5099 5099 5099 5199 5185 5186 5199 5199 5199 5199 5286 5299 5229 5229 5229 5385
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Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatC Spi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatB Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA	4986 4987 5000 5000 5000 5000 5000 5100 5100 510	The second secon	4999 5085 5086 5099 5099 5099 5199 5199 5199 5199 5299 5299 5299 52
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Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatC Mipponbare-repeatC Epi-d1-repeatA Mipponbare-repeatA Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatA Mipponbare-repeatB Epi-d1-repeatC Mipponbare-repeatC Epi-d1-repeatC Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatB Mipponbare-repeatC Epi-d1-repeatB	4986 4987 5000 5000 5000 5000 5100 5100 5100 510	The second secon	4999 5085 5099 5099 5099 5185 5199 5199 5199 5285 5299 5299 5299 5299 5299 5386 5399 5399 5399
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Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	6384 6385 6400 6400 6398 6398	CBGGAGTTEGCATETTTCEGCTEGTEGAGAAAATEAGGTTTCTCCCTCGATCGAATATEGATECAAACATCCTCCCGACTTTEGCCCAC CGGGGGGGGGCGGGAGTEGCATETTTCEGCTEGTEGAGAAAATGAGGTTTCTCCCTCGATCGAATATEGATECAAACATCCTCCCGACTTTEGCCCAC GGGGGGGGGCGCGGGAGTEGCATETTTCEGCTEGTEGAGAAAATGAGGTTTCTCCCCTCGATCGAATATEGATECAAACATCCTCCCCGACTTTEGCCCAC GGGGGGGGGG CGGGGGTTEGCATETTCEGCTECTEGAGAAAATGAGETTTCTCCCCTCGATCGAATATEGATECAAACATCCTCCCGACTTTEGCCCAC CGGGGGTTEGCATETTCEGCTECTEGAGAAAATGAGETTTCTCCCCTCGATCGAATATEGATECAAACATCCTCCCGACTTTEGCCCAC CGGGGGTTEGCATETTCEGCTECTEGAGAAAATGAGETTTCTCCCCTCGATCGAATATEGATECAAACATCCTCCCCGACTTTGGCCCAC	6472 6473 6499 6497 6486 6486
Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	6473 6474 6500 6498 6487 6487	9A969A969AA697ATGA9TCACCCT696CTCTT9AC66CT6C9TCAT69A9C59A9A9A59AC6CT6AATC9T696A9A96797D9769769CC56976CCC6 9A969A969AA697976A9TCACCCT696CTCTT9AC69CT6C9TCAT69A9C6AA9A96AC6CT6AATC9T6969A9A89797D9769766CC6975CCC6 9A969A969AA697976A9TCACCCT696CTCTT9AC69CT6C9TCAT69A9C6AA9A96AC6CT6AATC9T696469A96797569766CC6975CCC6 9A969A6967A9697576A9TCACCCT696CTCTT9AC66CT5C9TCAT69A9C6AA9A96AC6CT6AATC9T696A9A96797569769CC6975CCC6 9A969A9697576A9TCACCCT696CTCTT9AC66CT5C9TCAT69A9C6AA9A69AC6CT6AATC9T696A9A96797569769CC6975CCC6 9A969A3697975A9TCACCCT696CTCTT9AC66CT5C9TCAT69A3CC8A78A7C57696A9A96797569795C6675CCC6 9A969A3697976A9TCACCCT696CTCTT9AC66CT5C9TCAT69A3C6AA9A69AC6CT6AATC97696A9A96797569795C6675CCC6 9A969A3697976A9TCACCCT696CTCTT9AC66CT5C9TCAT69A3C6AA9A69AC6CT6AATC97666A9A96797569795C6675CC6	6572 6573 6599 6597 6586 6586
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Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC	6673 6674 6644 6642 6687 6687	9CBCCT6GC6AT6G6GAGAAG6CGAGCABTT6TA9TT6GGACCC6T6CCACACCCCCBCAC6T6CBCAABTCCAT6AC6T6A6CBCCCC667CAT 9CBCCT6GCGAT6G6GAGAAG6CGAGCABTT6TA9TT6GGACCCCF6CCACACCCC6CAC6T6C6CAABTCCAT6AC6T6A6C6T6A6CCC6667CAT 9TT6G6ACCC6T6CCACACCCC6C6CAC6T6C6CAABTCCAT6AC6T6A6C6T6C6CCC667C5 9TT6G6ACCC6T6CCACACCCCC6CCCAC6T6C6CAABTCCAT6AC6T6A6C6T6C6CCC667CAT 9C6CCT69C6AT69675666GA6AAG6CGA6CAGTT67A6TT666ACCC6 9C6CCT69C6AT69676666A6AA66CGA6CAABTT67A6TT666ACCC6 9C6CCT69C6AT69676666A6AA66CGA6CAABTT67A6TT666ACCC6 9C6CCT69C6AT69676666A6AA66CGA6CABTT67A6TT666ACCC6 9C6CCT69C6AT66676A6A5TCCAT6AC676A6C67CCC667CAT	6772 6773 6705 6703 6783 6783
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Nipponbare-repeatA Epi-d1-repeatA Nipponbare-repeatB Epi-d1-repeatB Nipponbare-repeatC Epi-d1-repeatC



Fig. S2 continued.



Fig. S3. Construction and gross morphologies of nearly isogenic line (NIL) of *Epi-d1*. The chromosomes of *Epi-d1* and Kasalath are shown as blue and yellow bars, respectively. (a) NIL carries *D1* locus from *Epi-d1* in Kasalath genome background. (b) NIL-*Epi-d1* shows dwarf (*Left*), chimeric (*Center*), and normal (*Right*) phenotypes.



Fig. S4. DNA methylation analysis of 168-bp centromere specific repeat. The genomic DNA extracted from Nipponbare (Nip), *Epi-normal* (Epi-N), and *Epi-dwarf* (Epi-d) were digested by DNA methylation insensitive restriction enzyme, Mspl or DNA methylation-sensitive restriction enzyme HapII. Digested DNAs were hybridized with 168-bp centromere-specific repeat probe.

Table S1. Segregation of chimeric plant

		Phenotype of progenies			
Four independent chimeric plants	Seed source	Normal, <i>n</i> (%)	Chimera, <i>n</i> (%)	Dwarf, <i>n</i> (%)	Total
Plant 1	Normal tillers	44 (23.5)	127 (67.9)	16 (8.5)	187
	Dwarf tillers	3 (2.8)	44 (41.5)	59 (55.7)	106
Plant 2	Normal tillers	59 (22.9)	149 (57.6)	50 (19.4)	258
	Dwarf tillers	21 (23.1)	60 (65.9)	10 (11.0)	91
Plant 3	Normal tillers	86 (43.0)	66 (33.0)	48 (24.0)	200
	Dwarf tillers	2 (1.1)	93 (51.7)	85 (47.2)	180
Plant 4	Normal tillers	47 (31.3)	55 (36.7)	48 (32.0)	150
	Dwarf tillers	0 (0.0)	69 (53.1)	61 (46.9)	130

Table S2. Phenotypic inversion in progenies of normal or dwarf plants of Epi-d1

	Phenotype of progenies			
Seed source	Normal	Chimera	Dwarf	Total
Epi-normal plant 1	2,480	220	175	2,875
Epi-normal plant 2	2,631	315	26	2,972
Epi-normal plant 3	2,064	501	143	2,708
Epi-normal plant 4	2,831	49	174	3,054
Total	10,006	1,085	518	11,609
	(86.2%)	(9.3%)	(4.5%)	(100%)
<i>Epi-dwarf</i> plant 5	12	713	2,033	2,758
Epi-dwarf plant 6	43	809	2,042	2,894
Epi-dwarf plant 7	31	672	2,229	2,932
Epi-dwarf plant 8	4	744	1,708	2,456
Total	90	2,938	8,012	11,040
	(0.8%)	(26.6%)	(72.6%)	(100%)

Table S3. Crossing experiment for allelic interaction

	Segregation in F ₂					
Combination	Normal	Dwarf	Chimera	Total	χ² 3:1(N:D)	Р
Epi-dwarf/Epi-normal	383	134	3	520	0.233	0.50–0.70
Epi-normal/Epi-dwarf	259	102	0	361	2.040	0.10-0.30
Epi-dwarf/IR24	47	15	0	62	0.022	0.70-0.90
IR24/Epi-dwarf	224	71	3	298	0.137	0.70-0.90
Epi-dwarf/Taichung 65	260	88	0	348	0.015	0.90-0.99
Taichung 65/Epi-dwarf	318	94	5	417	1.049	0.30-0.50

Table S4. Allelism test between Epi-d1 and d1 mutant

		Phenotype of F ₁ plents			
Seed source	Normal	Chimera	Dwarf	Total	
Epi-dwarf / d1	0	6	144	150	
	(0%)	(4%)	(96%)	(100%)	