

Rice PLD gene

>|AB001919.1| Oryza sativa Japonica Group gene for phospholipase D, complete cds

GATCTACAGCGACTGAACGGCATGTGGTTGCGATTGCGATTGCGATGCGGATGCGTACGCCTCGTTTATG
CTCGTGGTGGGCAGTCTTGACCCCCCAATTGTGCCTTCTGGTGGTCTTTGTCTGTCTTGTGGTTGACAC
TTTGTGGTGGTGGTGGTGTACGGTGGTGTGTGTGTGTGTGTGATAGTGTGATACTCCTAGATGATTAGATG
CGTGGTTAGTGGGCACATTTCCACCGATTTGTCTCATCTCCGAGTAATCACTACTCAGTACTTCCACCGT
TAAAAAAAACAATCAAGATAAGGATTTGATACCACTTAAAACAATGAATTTGGATACTCTCTCCGTCAA
AAAAATCAACCTAGATCAAGATATGATAATCTTGACCTAGGATATAGTTTTTTCGGAGGGAGTACTCATT
GTCAATTTCAACAATAGGAAACGACGATTTTATAGAATACAACCTTTAGGTCATGAGACATAGCGGCGAAT
CTATGGAATAATATGGAATGTGGGTCCATCAGTAGATACTCGTTCGGTTAACAAAACCACCTTCTAGATATG
AATATGGATATGACTAGTGTGTTTAAGTTATCATCGTTCGTGTCATGTTACTATAGTGACTTGCTACGGGG
TATTTCTACTGTCCATAAAATATAACCATGCAAACGGGAAGGAGATCAAAGGTCTTAACCTCCCAATAA
AAGCTGAGTGTCTGTGGGTGTTCCAAACTTCTCTCCTTCGTTTTCCACACGCGCACGCTTTCCAAAC
TGCTAAACTGTGTGTTTTTACATTAATTTTATATGAAAGTTGTTTTTAAAAAATCATATTAACCCAATT
TTTAATTTTTTAGCTAATATTTAATTAATCGTGCATAATTCATTGCTCAGTTTTCTATGTCGGAAGGTGA
GTGTTTCACTGTTTCAACCCCTCACCCATCTTTAGCACGGCTTTGGACTCATTTTTGTTTTAAGTTGGATA
TTACTAGCTTTACAAATTTATGGATCTAGATTTTCAATTACATTGATAACATTTGAATAAATCATTTTCAT
TCCTATTTTTATATGAAGTTTGAATTTTTTTTTCTTTTACACAATATAATTTAGCATACAAACCTTTAAAT
CTACCCCGAATATCAAATTCGAAGGCATGCCAAATAGGACTTAAGTTAATTGGTTTGTAAAATGGTTCA
AAATGGTTCAAAGACAACAAGTTTAATCCCTGCCAATATTGTATTTTTCTTTTACCAAAGCCTTCCCAT
GTTTTATTAGTTTCTTGTCTTGATCCGTCCCCAAATCCTCTATATTAGAGCAAGTTAATAGTATAGCCA
ACTACTGACTCTAAATCATAAAATAGTTAATTCATACAATAGTTACCTATAAACATATACTACTATACAA
GTAATATCTGGTCCCCACCTATGATACACACATTGCGTCTTATAGTCTGTGCTACAGGTGGCTACAAATC
TATTGTCCGCTGCTCTTATCTCTTCTCATTTATTTACTCCATATATGTTTATAGCTGGCTTATAGTCTGT
TATTGTACTAACTTATTTACATAGTAGAACTCCACATAAATAGTTAATATTTCTGTATGAAGCAGCCCT
TAACTTCTTCCAAAATTTCTCCCTTTAACTTCTTTCCAATTTCCCAAATATTTTCTGTTCCAACCTTTTTT
TACGGGATTTTTCCGATCCGACATTAATAACTATCCCAAACGCCACGTCTTTTTCTTTGGAGCAAAGGAAA
TCAAATAAAAAGGCTAGAATCTCTCCTTTTTCCATTTCCCTCTCCTAATTGGACGCTTTTCGCCTTGTTGG
TGCACGTGTCCTTTCGTCTCGGAGGGAAGCTCGTATTGGACGCGCCGCGAGCAGGTGACGTGACGCGACAG
CGGCGGCGGCGGCGGCGGCGGCGGCGGCGGAGCCGAGGAGGAGCGACCATGGCTCACCTGCTGCTGCACGGC
ACGCTCGAGGCCACCATCCTCGAGGCCGACCACCTCTCCAACCCACCCGCGCCACCGGCGCCGCCCCCG
GGATCTTCCGCAAGGTGAGTGAATCCCCTCTCTCTTCGAGCTCAAATCGATCCAATTTAGTGGTGAG
AGATTTTTGGTTGGAGCAATCCAAGAGGAGGCGCAATTTTTGGTGTGGTTGATTTTTGAATCCGTTTCG
TGCAGTTCGTGGAAGGGTTCGAGGACTCGCTGGGGCTCGGGAAGGGGGCGACGCGGCTGTACGCGACGAT
CGACCTCGGCCGGGCGGGTGGGGCGGACGCGGGTCTGTCGACGACGAGCCGGTGAACCCGCGGTGGTAC
GAGGTGTTCCACATCTACTGCGCCACTTTCGCCGCCGACGTGGTGTCTCCGTCAAGGCGGCGCAGCCCA
TCGGCGCCACGCTCATCGACCGCGCCTACCTCCCCGTGAGGGAGCTCCTGTGCGGCGAGGCCATCGAGCG
CCGCTCGACATCCTCGACCGCGGAGGAGGATCTCGCACGGGCCGACGATACACGTGCGGCTGCAG
TTCCGCGACGTGCGCGGCGACCGCCATGGGTGGGGCAGGGGCGTCTCCGCGCGCGGTACCCCGGCGTGC
CGTACACCTTCTTCTCGCAGCGCCCCGGGTGCAGGGTCAACCTGTACCAGGACGCGCACGTGCCCGACGC
GTTCCGCGCCAGGATCCCGCTCGCCGGCGGCGGGTACTACCGGCAGGGGCGGTGCTGGGAGGACGTGTTT
GACGCCATCAGCAACGCCAAGCACCTCATATACCTCACCGCTGGTCCGTGTACACCGAGATCACGCTCA
TCCGTGACGGCACCCGGCAGCGCCCCGGCGGCGACGCCACCTCGGCGAGCTCCTCAAGCGCAAGGCCAG
CGAGGGCGTGCAGCTGCTGTTGCTGGTCTGGGACGACCGCACCTCCGTGAGTCTGCTCGGCATGAAGTGG
GGGTTTATGTCGACGCACGACGCCGAGACGGCGGACTACTTCCGCGGCACCGACGTGCGCTGCGTCTCT
GCCCCGGAACCCCGACGCCGGCCGGAGCGCCATCATGGGCGCGCAGATCGCCTACATGATCACCCACCA
CCAGAAGACCGTCATCGTCGACCACGACATGCCAGTGCCGCGTGGCGGTGGCAGCCGCCGATCGTCAGC
TTCGTGCGGGCGGCTCGACCTCTGTGACGGCCGCTACGACACGCAGTTCCACTCCCTCTTCCGGACGCTCG
ACACGGGGCACACAGCTACTTCCACCAGGCCAACCTCGACGGGGCGGCCGTACCAAGGGCGGGCCGAG
GGAGCCATGGCACGACATCCACTCCAAGATCGAAGGCCCGCGGCTTGGGATGTGCTCTACAACCTTCGAG

CAGCGGTGGAGGAAGCAAGGCGGTGACAAGGACCTCCTCCTAGACCTCAAAGCCATGGCCGACCTCATT
TTCCGCCGTCTCCGGTGATGTTCCCCGATGACGGTGAGGCCTGGAGTGTTTCAGTTGTTCCGGTCCATCGA
TGGCTGGGCGGCCTGCTTTGGCTTCCCTAGCACTCCAGAGGCTGCTGCAAGATCAGGCCTTGTGAGTGGC
AAGAACAACACCATTGACAGGAGCATCCAAGATGCATACATCCACGCAATTCGCCGGCGCAAGAACTTCA
TCTACATCGAGAATCAGTACTTCCCTGGCAGCTCATTGTCATGGAAAGCCGATGGCATCAGACCAGAAGA
CATTGAGCCGTTGCATCTGATTTCCAGAGAGATTTCTCTGAAGATTGTGAACAAGATTGAAGC TGGTGAG

CGTTTTGCAGTCTATGTTGTGCTGCCAATGTGGCCTGAAGGACCTCCTGCTAGTGGATCAGTGCAGGCAA

→ ←
TACTGGATTGGCAGAGGAGGACAATGGAGATGATGTACTATGATATTGCCGTTGCACTTGAGGCGAAGAG
GATCAATGCTGACCCGAGGGATTACCTTACCTTCTTCTGCTTAGGGAACAGGGAAGTAAAGTTGAATGGT
GAGTATGAACCTGCAGGTGCGCCTTTGGATGGCACAGACTATGCTAAGGCACAGAAGGCACGCCGGTTCA
TGATCTATGTTCACTCCAAGATGATGATAGGTATGCTTAAAAACATTATTGTCACAAGTTCTCTAAATTT
ACTCCAGATTGCAGCTGACACATGATCTTTTTTGCATTGTTTAAACATCTTTAAGAATTCACAAATCAGAA
TCGCAGCACCTCTTATGGATCTCCAATGTCCCATTTTATGTTTATACTACTATACTACTTGCCCCAATT
TCGACACCCACATGTTAGGAAAGACTTTTACATCACAGTTCAATTTCCCTTGTCACTAGGCAACATACGCA
ATTACTTCATTCCCTTGTGTAAGATAGACAATATATTGTCGCTGGCTCTTATTTTCAGTACCTGTGCTTTG
ATGACATGCTTCATGTTGATAAAGATAAATTTGTTGGAACCTTAATATCCTTGGTTTGTTCAGTTGACGA
CGAGTACATCATTGTTGGATCTGCCAACATCAACCAGAGGCCCATGGATGGGGAAGGAGACTCCGAGATC
GCCATGGGTGCATTCCAGCCATGCCACCTGAACACCAAGGCGCTGGTTGCAAGAGGACAAATCCACGGTT
TCCGGATGTCGTTGTGGTATGAGCACCTTGGCATGCTGCATGACAACCTCCTGAACCCAGAGAGCCTGGA
GTGTGTTTCAGAGGGTGAACAAGATGGCTGACAAGTACTGGGACCTCTACGCGAGCGATGAGCTTAACGAT
GACCTTCCCTGGGCACCTGCTGACCTACCCGGTACGTGTTACGAAGGAAGGCACGGTGACAGAGCTCCCAG
GAGCGAAATTTCCCTGACACTCAGGCTCCAGTGATCGGCACGAAGGGGAACCTGCCTCCCTTTCTCAC
CACATAGAGTAGCAAGATTCAGATTGTGCTGCATAATGGAACCTTGCCTGTTGGGTGGTGTCTTAG
ATATGTAATTTCCAGCCCAATAATAGGGTGTACGCCTATTTCTTGTCAAAATTTGGTTGATCAGTTGAT
GCTATTCTTTTGCACGAATCATGATTTTCCCTCATGGGAGTACTGAAATAATAGGCATGTTTTGTTGGAGA
TTTGACCTGAATATACTACTACTGAAGTCTTGGACAACCTTGGTGTGTTGGGCACATTGT

Primers (red arrow) and probe (red line) are shown above, and target sequence is highlighted in light blue. Amplicon size is 68 bp.