

Rd	ATGGACTTCGAGTCCGAGGACCCGGAGAACGAGGTGGTCAAGCCACCGTGAAGGGATGCTGAGCATCATGCGGGCCTG	80
X134	ATGGACTTCGAGTCCGAGGACCCGGAGAACGAGGTGGTCAAGCCACCGTGAAGGGATGCTGAGCATCATGCGGGCCTG	80
S143	ATGGACTTCGAGTCCGAGGACCCGGAGAACGAGGTGGTCAAGCCACCGTGAAGGGATGCTGAGCATCATGCGGGCCTG	80
ZNS	ATGGACTTCGAGTCCGAGGACCCGGAGAACGAGGTGGTCAAGCCACCGTGAAGGGATGCTGAGCATCATGCGGGCCTG	80
Rd	CAGGGACGCCGGCACCCTCAAGCGCATCGTCTTACCTCCTCCGCCGGGACCGTCAACATCGAGGAGCGGCAGCGCCCT	160
X134	CAGGGACGCCGGCACCCTCAAGCGCATCGTCTTACCTCCTCCGCCGGGACCGTCAACATCGAGGAGCGGCAGCGCCCT	160
S143	CAGGGACGCCGGCACCCTCAAGCGCATCGTCTTACCTCCTCCGCCGGGACCGTCAACATCGAGGAGCGGCAGCGCCCT	160
ZNS	CAGGGACGCCGGCACCCTCAAGCGCATCGTCTTACCTCCTCCGCCGGGACCGTCAACATCGAGGAGCGGCAGCGCCCT	160
Rd	CCTACGACCACGACGACTGGAGCGACATCGACTTCTGCCGCCGCGTCAAGATGACCGGATGGATGTACTTCGTGTCCAAG	240
X134	CCTACGACCACGACGACTGGAGCGACATCGACTTCTGCCGCCGCGTCAAGATGACCGGATGGATGTACTTCGTGTCCAAG	240
S143	CCTACGACCACGACGACTGGAGCGACATCGACTTCTGCCGCCGCGTCAAGATGACCGGATGGATGTACTTCGTGTCCAAG	240
ZNS	CCTACGACCACGACGACTGGAGCGACATCGACTTCTGCCGCCGCGTCAAGATGACCGGATGGATGTACTTCGTGTCCAAG	240
Rd	TCATTGGCGGAGAAGGCCGCCATGGAATACGCGAGGGAGCAGGGCTGGACCTCATCAGCGTCATCCCCACGCTCGTCGT	320
X134	TCATTGGCGGAGAAGGCCGCCATGGAATACGCGAGGGAGCAGGGCTGGACCTCATCAGCGTCATCCCCACGCTCGTCGT	320
S143	TCATTGGCGGAGAAGGCCGCCATGGAATACGCGAGGGAGCAGGGCTGGACCTCATCAGCGTCATCCCCACGCTCGTCGT	320
ZNS	TCATTGGCGGAGAAGGCCGCCATGGAATACGCGAGGGAGCAGGGCTGGACCTCATCAGCGTCATCCCCACGCTCGTCGT	320
Rd	CGGGCCCTTCATCAGCAACGGGATGCCGCCGAGCCAGTCAACCGCTGGCGCTGCTCACGGGAAACGAGGCCACTACT	400
XS34	CGGGCCCTTCATCAGCAACGGGATGCCGCCGAGCCAGTCAACCGCTGGCGCTGCTCACGGGAAACGAGGCCACTACT	400
S143	CGGGCCCTTCATCAGCAACGGGATGCCGCCGAGCCAGTCAACCGCTGGCGCTGCTCACGGGAAACGAGGCCACTACT	400
ZNS	CGGGCCCTTCATCAGCAACGGGATGCCGCCGAGCCAGTCAACCGCTGGCGCTGCTCACGGGAAACGAGGCCACTACT	400
Rd	CGATCCTGAAGCAGGTGCAGTTCGTCCACCTCGACGACCTTTCGCGACGCCGAGATCTTCCTCTTCGAGAGCCCCGAGGCG	480
X134	CGATCCTGAAGCAGGTGCAGTTCGTCCACCTCGACGACCTTTCGCGACGCCGAGATCTTCCTCTTCGAGAGCCCCGAGGCG	480
S143	CGATCCTGAAGCAGGTGCAGTTCGTCCACCTCGACGACCTTTCGCGACGCCGAGATCTTCCTCTTCGAGAGCCCCGAGGCG	480
ZNS	CGATCCTGAAGCAGGTGCAGTTCGTCCACCTCGACGACCTTTCGCGACGCCGAGATCTTCCTCTTCGAGAGCCCCGAGGCG	480
Rd	CGCGGCCGCTACGTCTGCTCCTCCACGACGCCACCATCCACGGCTCGCGACGATGCTCGCGGACATGTTCCCGGAGTA	560
X134	CGCGGCCGCTACGTCTGCTCCTCCACGACGCCACCATCCACGGCTCGCGACGATGCTCGCGGACATGTTCCCGGAGTA	560
S143	CGCGGCCGCTACGTCTGCTCCTCCACGACGCCACCATCCACGGCTCGCGACGATGCTCGCGGACATGTTCCCGGAGTA	560
ZNS	CGCGGCCGCTACGTCTGCTCCTCCACGACGCCACCATCCACGGCTCGCGACGATGCTCGCGGACATGTTCCCGGAGTA	560
Rd	CGACGTGCCCGGAGCTTCCCGGGATCGACGCCGACCCTCCAGCCGGTGCACCTTCTCGTCTGGAAGCTCCTCGCCC	640
X134	CGACGTGCCCGGAGCTTCCCGGGATCGACGCCGACCCTCCAGCCGGTGCACCTTCTCGTCTGGAAGCTCCTCGCCC	640
S143	CGACGTGCCCGGAGCTTCCCGGGATCGACGCCGACCCTCCAGCCGGTGCACCTTCTCGTCTGGAAGCTCCTCGCCC	640
ZNS	CGACGTGCCCGGAGCTTCCCGGGATCGACGCCGACCCTCCAGCCGGTGCACCTTCTCGTCTGGAAGCTCCTCGCCC	640
Rd	ACGGGTTTCAGGTTTCAGGTACACGCTGGAGGACATGTTTCGAGGCCCGCTCCGGACGTGCAGGGAGAAGGGGCTTCTCCCG	720
X134	ACGGGTTTCAGGTTTCAGGTACACGCTGGAGGACATGTTTCGAGGCCCGCTCCGGACGTGCAGGGAGAAGGGGCTTCTCCCG	720
S143	ACGGGTTTCAGGTTTCAGGTACACGCTGGAGGACATGTTTCGAGGCCCGCTCCGGACGTGCAGGGAGAAGGGGCTTCTCCCG	720
ZNS	ACGGGTTTCAGGTTTCAGGTACACGCTGGAGGACATGTTTCGAGGCCCGCTCCGGACGTGCAGGGAGAAGGGGCTTCTCCCG	720
Rd	CCGTGCGGCCACCCGCCGACGACGCCGCTGGCCGGAGGAGACGGCTCGCGGGTGTGGCCGGCAGAGAAGGAACCGATACT	800
X134	CCGTGCGGCCACCCGCCGACGACGCCGCTGGCCGGAGGAGACGGCTCGCGGGTGTGGCCGGCAGAGAAGGAACCGATACT	800
S143	CCGTGCGGCCACCCGCCGACGACGCCGCTGGCCGGAGGAGACGGCTCGCGGGTGTGGCCGGCAGAGAAGGAACCGATACT	800
ZNS	CCGTGCGGCCACCCGCCGACGACGCCGCTGGCCGGAGGAGACGGCTCGCGGGTGTGGCCGGCAGAGAAGGAACCGATACT	800
Rd	GGGGAGGGGGACCGGACGGCGGTTGGTGTGAAACAGAAGCGTTGGTCAAATGA	855
X134	GGGGAGGGGGACCGGACGGCGGTTGGTGTGAAACAGAAGCGTTGGTCAAATGA	855
S143	GGGGAGGGGGACCGGACGGCGGTTGGTGTGAAACAGAAGCGTTGGTCAAATGA	855
ZNS	GGGGAGGGGGACCGGACGGCGGTTGGTGTGAAACAGAAGCGTTGGTCAAATGA	855

**Supplemental Figure 2. Multiple alignment of the coding regions of the *Rd* gene in wild red rice (*Oryza rufipogon*), and three white pericarp rice varieties X134, S143, and ZNS.**