

Sina: Wanad / Secale cereale

Wanad	ATGAAGGCCTTCTTCTTCGTAGCCCTCCTTGCTCTGGTAGCGAGCACCGC	50
AJ249932.1	.....C.....C..A...GA..G.....	50
DQ269850.1	.....	50
Wanad	CTTTGCGCAATATAGCGAAGTTG---GCAGTTACGATGTTGCCGGCGGGG	97
AJ249932.1	.....TTG.....T.....	100
DQ269850.1	.....---	97
Wanad	GTGGTGCTCAACAATGCCCTCTAGAGACAAAGCTAAACTCATGCAGGAAT	147
AJ249932.1	.....G.....T.....	150
DQ269850.1	.....T...	147
Wanad	TACCTGCTAGAAAGATGCTCAACCATGAAGGATTTCCCGGTGACCTGGCA	197
AJ249932.1	.....TC.....G.....C.....G	200
DQ269850.1	.....	197
Wanad	GTGGTGGAATGGTGGAAAGGGAGGTTGTCAAGAGCTCCTTGGGGAGTGTT	247
AJ249932.1	T.....	250
DQ269850.1	.....	247
Wanad	GCAGCCAGCTCGGCCAAATGCCACCGCAATGCCGCTGCAACATCATCCAG	297
AJ249932.1	....T.G.....	300
DQ269850.1	.....G.....	297
Wanad	GGGTCAATCCAAGGCGATCTCGGTGGCATCTTCGGATTTTCAGCGTGACCG	347
AJ249932.1	.....T..	350
DQ269850.1	.....A.....	347
Wanad	GGCAAGCAAAGTGATACAAGAAGCCAAGAACCTGCCGCCAAGTGCAACC	397
AJ249932.1	.....G.....	400
DQ269850.1	.....	397
Wanad	AGGGCCCTGCCTGCAACATCCCCGGCCCTAGTGGCTATTACTGGTGA	444
AJ249932.1	.....C.....A...T.....	447
DQ269850.1	.....T.....	444

AJ249932.1 - Gautier,M.F., Cosson,P., Guirao,A., Alary,R. and Joudrier,P. Puroindoline genes are highly conserved in diploid ancestor wheats and related species but absent in tetraploid Triticum species. Plant Sci. 153, 81-91 (2000)

DQ269850.1 - Massa,A.N. and Morris,C.F. Molecular evolution of the puroindoline-a, puroindoline-b, and grain softness protein-1 genes in the tribe Triticeae. J. Mol. Evol. 63 (4), 526-536 (2006)

Sinb: Wanad / *Secale cereale*

Wanad	ATGAAGACCTGCTTATTCTCCTAGCTCTCCTTGCTCTTGTAGCGAGCAC	50
AY667061.1	.....---.....	47
AY667062.1	.....---.....	47
DQ269886.1	.....	50
Wanad	AACCTTGGCGCAATACTCAGAAGTTGGCGGCTGGTACAATGAAGTTGGCG	100
AY667061.1	.....	97
AY667062.1	.....	97
DQ269886.1	.....	100
Wanad	GAGGAGGTGGTGTCTCAACAATGCCCGCTGGAGCGGCCGAAGCTAAGCTCT	150
AY667061.1	.....C.....	147
AY667062.1	.....C.....	147
DQ269886.1	.....C.....	150
Wanad	TGCATGGATTACGTGATGGAGCGGTGTTTCACAATGAAGGATTTTCCAGT	200
AY667061.1	.....	197
AY667062.1	.....	197
DQ269886.1	.....	200
Wanad	CACTTGGCCCACGAGATGGTGGAAAGGGCGGTTGTGAGCACGAGGTTCCGGG	250
AY667061.1	.....	247
AY667062.1	.....	247
DQ269886.1	.....	250
Wanad	AGAAGTGTTGCAATCAGCTGAGTCAGATAGCACCCACAGTGTGCGCTGCGAT	300
AY667061.1	.....	297
AY667062.1	.....	297
DQ269886.1	.....	300
Wanad	TCTATCCGAGGAATGATCCAAGGCAAGTTCGGAGGCTTCTTCGGCATTG	350
AY667061.1	.....	347
AY667062.1	.....A.....	347
DQ269886.1	.....A.....	350
Wanad	GCGAGGTGATGTATTCAAACAAACTCAAAGGGCCCAGAGCCTCCCCTCGA	400
AY667061.1	.....	397
AY667062.1	.....G.....	397
DQ269886.1	.....G.....	400
Wanad	AGTGCAACATGGGAGCCGACTGCAAGTTCCTGGTGGCTATTACTGGTGA	450
AY667061.1	.....	447
AY667062.1	.....C.....	447
DQ269886.1	.....C.....	450

AY667061.1 - Simeone, M.C. and Lafiandra, D. Isolation and characterization of friabilin genes in rye. *J. Cereal Sci.* 41 (1), 115-122 (2005)

AY667062.1 - Simeone, M.C. and Lafiandra, D. Isolation and characterization of friabilin genes in rye. *J. Cereal Sci.* 41 (1), 115-122 (2005)

DQ269886.1 - Massa, A.N. and Morris, C.F. Molecular evolution of the puroindoline-a, puroindoline-b, and grain softness protein-1 genes in the tribe Triticeae. *J. Mol. Evol.* 63 (4), 526-536 (2006)

Figure S1. Alignment of the *Sina* and *Sinb* sequences of cv. Wanad with others deposited in GenBank by DNASTAR Lasergene software.