

Supplementary Materials: Characterization and Functional Importance of Two Glycoside Hydrolase Family 16 Genes from the Rice White Tip Nematode *Aphelenchoides besseyi*

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Table S1. GH genes survey in *Aphelenchoides besseyi* transcriptome data.

GHs	Transcript ID	E-value
GH2	trans117704_10_47-1081	1.00×10^{-45}
GH2	trans679_10_1-1425	7.20×10^{-64}
GH13	trans794_19_3-1889	2.20×10^{-128}
GH16	trans152380_4_1-207	2.50×10^{-06}
GH16	trans32403_1_2-244	2.30×10^{-08}
GH16	trans7912_10_102-1073	3.60×10^{-20}
GH18	trans168_7_148-990	4.40×10^{-37}
GH19	trans1382_5_3-800	8.10×10^{-42}
GH20	trans113061_12_3-1928	1.40×10^{-28}
GH20	trans1978_11_210-1763	4.10×10^{-22}
GH20	trans3367_16_93-1748	6.60×10^{-81}
GH29	trans3842_11_21-1463	1.70×10^{-96}
GH30	trans117090_10_1-1596	4.10×10^{-152}
GH30	trans125092_10_3-1589	1.50×10^{-148}
GH31	trans4754_18_1-2748	9.50×10^{-152}
GH35	trans114947_13_86-2071	2.20×10^{-103}
GH35	trans124383_7_2-568	8.00×10^{-46}
GH37	trans120565_17_3-1877	4.00×10^{-162}
GH38	trans116548_13_4-1611	7.00×10^{-57}
GH38	trans8134_31_573-3653	3.10×10^{-59}
GH45	trans123487_5_2-538	3.90×10^{-76}
GH47	trans113602_22_314-2146	9.40×10^{-150}
GH47	trans3198_12_16-1710	6.20×10^{-147}
GH47	trans3658_22_101-3109	1.90×10^{-138}
GH56	trans122501_7_2-805	2.60×10^{-66}
GH85	trans7967_9_5-1405	9.90×10^{-67}
GH99	trans115030_16_242-1630	4.10×10^{-120}
GH109	trans114061_12_444-1505	2.50×10^{-7}
GH109	trans119448_8_62-1099	4.10×10^{-12}
GH109	trans2441_5_2-700	9.40×10^{-12}

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Table S2. Primers used in this study.

Primer ID	Primer Sequence (5'–3')	Aim For	
GH16NJ-F1	CGACGATGCTTTCTATTGCT	RACE-PCR for AbGH16-1	
GH16NJ-R1	CAATAACAACACAGTCTCTC		
GH16NJ-F2	GGACAATGCGGAACTTGGAGTGC		
GH16NJ-R2	CGCCATGTAGACACCACCCTTCT		
UPM	CTAATACGACTCACTATAGGG-		
	CAAGCAGTGGTATCAAC-		
NUP	GCAGAGT (long); CTAATAC-		
	GACTCACTATAGGGC (short)		
GH16NJ-F.full	AAGCAGTGGT AACAACGCAGAGT		Full length of AbGH16-1
GH16NJ-R.full	ACATGGGGGACGACGATGCT		
qGH16NJ-F	CACTTGCTTGAATTGATTTA		
qGH16NJ-R	ACAGTGCATTGGAATGCCA	qPCR for AbGH16-1	
qAb18S-F	TTGAGGATATTGCCGCCAGA	qPCR (reference gene)	
qAb18S-R	TGCGGTAATTCTGGAGCCAA		
GH16NJ-21T.F	CCCGTTAGAACCATGGCAGT		
GH16NJ-21T.R	CATGCCATGGCTTATCAGTT-	Plasmids construction for protein ex- pression	
	GGTCGACA ACTATCA		
GH16R1-21T.F	CATGCTCGAGTTATTTCTTATA-		
	GATTTTGAGTGAATTGATCAAC-		
GH16R1-21T.R	CAA		
	CATGCCATGGCTTATCGCTT-		
GH16NJ-F3	GGTCGACAATTACACA		ISH/ RNAi for AbGH16-1
	GH16NJ-R3		
GH16NJ-T7.F3	TAAACTTTCAGCGAATTGA		RNAi for AbGH16-1
	GH16NJ-T7.R3		
GH16R1-F	AGCTGCCAGACATTGAGGAT	ISH/qPCR/RNAi for AbGH16-2	
	GH16R1-R		T7 adapter- GGACAATGCGGAACTT-
GH16R1-T7.F	GGAG	RNAi for AbGH16-2	
	GH16R1-T7.R		T7 adapter- AGCTGCCAGACATT-
GFP-F	GAGGAT	RNAi (control)	
	GFP-R		GCGAATCCAAATCACAGGCA
GFP-T7.F	CGACAACACGCAGACCTATG	RNAi for AbGH16-2	
	GFP-T7.R		T7 adapter- TGGTTGTCTGGTAAAAG