

New *Phytologist* Supporting Information

Article title: **A new mode of NPR1 action via an NB-ARC-NPR1 fusion protein negatively regulates defense response to stem rust pathogen in wheat**

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Article acceptance date: 01 June 2020

Notes S2: The alignment of the cDNAs of the *TaG3NPR1* genes and the location of the target region for silencing.

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CLUSTAL O(1.2.4) multiple sequence alignment
TraesCS3A02G105400.1   ATGGAGGCCCGAGCAGCCACGTACCGCTCCTTCTCCGACTGCGACGACAGCGTCTCC   60
TraesCS3B02G123800.1   ATGGAGGCCCGAGCAGCCACGTACCGCTCCTTCTCCGACTGCGACGACAGCGTCTCC   60
TraesCS3D02G107500.1   ATGGAGGCCCGAGCAGCCACGTACTGCCTCCTTCTCCGACTGCGACGACAGCGTCTCC   60
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TraesCS3D02G107500.1   ATGGGGACGCGCGCCGGACGCGGACGTGGAGGCGCTCCGCCCTCTCCGACAACCTC   120
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TraesCS3D02G107500.1   GCCGCCCTTCCGCTCGCCGACGACTTCGCTTCTCTCGCCGACGCGCTCGTCGCCGTG   180
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TraesCS3B02G123800.1   CCGGGCGCGCCGACCTGCGGTGACCGCTGCGTGCTGTCGCGCGGAGCCCTTCCTG   240
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TraesCS3D02G107500.1   CGCGCCCTTCAAGCGCGCGCCGCGCGC-----CGGTTCGTCGCGCGCGCG   300
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TraesCS3B02G123800.1   GAGGGCAACCGGCTGGAGCTCCGGAGCTTCTCGGACGAGGTCGAGGTCAGGTACGAG   351
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TraesCS3D02G107500.1	GCGCTGGAGCTGGTGCCTGACTACCTGTACAGCGGCCGCGTCCGGACCTCCCAAGTCG	420

TraesCS3A02G105400.1	GCGTGGCCTGCGTCGACGTCGACGGGTGCGCGCACGTGGTCCACCCCGCCGTCTCC	471
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TraesCS3D02G107500.1	GCGTGGCCTGCGTCGACGTCGACGGATGCGCCACGTGGTCCACCCCGCCGTCTCC	480
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TraesCS3D02G107500.1	TTCATGGCGCAGGTCCTCTTCGCCGATCCACCTCCAGTGGCGAGCTGCCAGCCTC	540
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TraesCS3A02G105400.1	TTCCAGCGCATCTCCTTGATTTCCTTGATAATGTTGAAGTGATAACCTCCGTTGATC	591
TraesCS3B02G123800.1	TTCCAGCGCATCTCCTTGATTTCCTTGATAAAGTTGAAGTGATAACCTCCGTTGATC	591
TraesCS3D02G107500.1	TTCCAGCGCATCTCCTTGATTTCCTTGATAAAGTTGAAGTGATAACCTCCATTGGTC	600
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TraesCS3B02G123800.1	TTATCTGTGCAAACCTTATGCAACAAATCTGCGTGAAACTGTTGAGAGATGCATGGAG	651
TraesCS3D02G107500.1	TTATCTGTGCAAACCTTATGCAACAAATCTGCGTGAAACTGTTGAGAGATGCCTGGAG	660
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TraesCS3D02G107500.1	ATCAAGCAAATTACTGATTACGGATAACTCTTGATTAGCTTCACCCGAAGACAATGGC	780
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TraesCS3D02G107500.1	GTCAGGATGCTGCTCACAGAAGGGCAGACAAACCTTGATGATGATTGCACTGCACTAT	900
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G3-01 igF

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G3-01 igR

TraesCS3A02G105400.1 GGTCTAGTACAATCCACCTCTGGAGATAACAACCGTTGATCTAAATGATACTTCTTTC 1431
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TraesCS3D02G107500.1 GGTATAGTACAATCCACCTCTGGAGATAACAACCGTTGATCTAAATGATACTTCTTTC 1440

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TraesCS3A02G105400.1 TGA 1734
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TraesCS3D02G107500.1 TGA 1743
