

Table S1. List of *Fusarium* strains tested for IN activity. Ice nucleation-active strains are marked with a plus (+), IN-inactive strains are marked with a minus (-). The newly identified IN-active *Fusarium* species are marked with an asterisk (*).

Species	Strain	IN activity
<i>F. acuminatum</i>	1-1 ^a	-
<i>F. acuminatum</i>	1-3 ^a	+
<i>F. acuminatum</i>	1-4 ^a	+
<i>F. acuminatum</i>	1-5 ^a	+
<i>F. acuminatum</i>	1-24 ^a	+
<i>F. acuminatum</i>	2-38 ^a	+
<i>F. acuminatum</i>	2-48 ^a	+
<i>F. acuminatum</i>	2-82 ^a	-
<i>F. acuminatum</i>	2-103 ^a	-
<i>F. acuminatum</i>	2-109 ^a	+
<i>F. acuminatum</i>	3-48 ^a	+
<i>F. acuminatum</i>	3-68 ^a	+
<i>F. acuminatum</i>	3-88 ^a	-
<i>F. acuminatum</i>	3-119 ^a	-
<i>F. acuminatum</i>	3-123 ^a	-
<i>F. acuminatum</i>	3-132 ^a	-
<i>F. acuminatum</i>	20964 ^b	+
<i>F. acutatum</i>	10769 ^b	-
<i>F. andiyazi</i>	4647 ^b	-
<i>F. anthophilum</i>	11560 ^b	-
<i>F. armeniacum</i> *	20970 ^b	+
<i>F. armeniacum</i>	F156N11 ^c	-
<i>F. avenaceum</i>	1-25 ^a	-
<i>F. avenaceum</i>	1-26 ^a	-
<i>F. avenaceum</i>	2-85 ^a	-
<i>F. avenaceum</i>	2-106 ^a	+

<i>F. avenaceum</i>	3-126 ^a	-
<i>F. avenaceum</i>	11440 ^b	+
<i>F. avenaceum</i>	F156N33 ^c	+
<i>F. babinda</i>	11478 ^b	-
<i>F. begoniae</i> *	10767 ^b	+
<i>F. beomiforme</i>	5013 ^b	-
<i>F. brevicatenulatum</i>	10756 ^b	-
<i>F. bulbicola</i>	10759 ^b	-
<i>F. chlamydosporum</i>	11397 ^b	-
<i>F. circinatum</i>	H-10847 ^b	-
<i>F. circinatum</i>	F149N7 ^c	-
<i>F. compactum</i>	20974 ^b	-
<i>F. concentricum</i> *	10765 ^b	+
<i>F. crookwellense</i>	3-52 ^a	-
<i>F. crookwellense (cereal)</i>	11451 ^b	-
<i>F. culmorum</i>	3-47 ^a	-
<i>F. decemcellulare</i>	11411 ^b	-
<i>F. denticulatum</i>	10763 ^b	-
<i>F. dimerum</i>	14971 ^b	-
<i>F. Dlamini</i>	5009 ^b	-
<i>F. equiseti</i>	3-94 ^a	-
<i>F. equiseti</i>	4-24 ^a	-
<i>F. equiseti</i>	20978 ^b	-
<i>F. fujikuroi</i>	C-1993 ^b	-
<i>F. fujikuroi</i>	C-1994 ^b	-
<i>F. fujikuroi</i>	F148N2 ^c	-
<i>F. globosum</i>	11554 ^b	-
<i>F. graminearum</i>	3-83 ^a	-
<i>F. graminearum</i>	4-22 ^a	-
<i>F. graminearum</i>	Z-3639 ^b	-
<i>F. graminearum</i>	F149N19 ^c	-

<i>F. guttiforme</i>	10764 ^b	-
<i>F. heterosporum</i> (<i>graminum</i>)	15050 ^b	-
<i>F. konzum</i>	I-11615 ^b	-
<i>F. lacertarum</i>	F147N5 ^c	-
<i>F. lactis</i>	10757 ^b	-
<i>F. langsethiae</i> *	19084 ^b	+
<i>F. lateritium</i>	11404 ^b	-
<i>F. longipes</i>	20983 ^b	-
<i>F. manganiferae</i>	11781 ^b	-
<i>F. napiforme</i>	5015 ^b	-
<i>F. nelsonii</i>	11564 ^b	-
<i>F. nisikadoi</i>	10758 ^b	-
<i>F. nygamai</i>	G-5111 ^b	-
<i>F. nygamai</i>	G-5112 ^b	-
<i>F. nygamai</i>	F153N3 ^c	-
<i>F. oxysporum</i>	3-9 ^a	-
<i>F. oxysporum</i>	3-76 ^a	-
<i>F. oxysporum</i>	4-30 ^a	-
<i>F. oxysporum</i>	11390 ^b	-
<i>F. oxysporum</i>	F152N2 ^c	-
<i>F. phyllophilum</i>	10768 ^b	-
<i>F. poae</i>	11470 ^b	-
<i>F. polyphialidicum</i>	11413 ^b	-
<i>F. proliferatum</i>	D-4863 ^b	-
<i>F. proliferatum</i>	D-4854 ^b	-
<i>F. proliferatum</i>	F148N3 ^c	-
<i>F. pseudoanthophilum</i>	10755 ^b	-
<i>F. pseudocircinatum</i>	10761 ^b	-
<i>F. pseudograminearum</i>	11435 ^b	-
<i>F. pseudonygamai</i>	10762 ^b	-
<i>F. ramigenum</i>	10760 ^b	-

<i>F. redolens</i>	18979 ^b	-
<i>F. sacchari</i>	B-3852 ^b	-
<i>F. sacchari</i>	B-3853 ^b	-
<i>F. sambucinum</i>	20481 ^b	-
<i>F. sambucinum</i>	F153N10 ^c	-
<i>F. scirpi</i>	20986 ^b	-
<i>F. solani</i>	11420 ^b	-
<i>F. sporotrichioides</i>	11552 ^b	-
<i>F. sporotrichioides</i>	F149N20 ^c	-
<i>F. sterilihyphosum</i>	11783 ^b	-
<i>F. stilbioides</i>	F157N3 ^c	-
<i>F. subglutinans</i>	E-0990 ^b	-
<i>F. subglutinans</i>	E-2192 ^b	-
<i>F. succisae</i>	3832 ^b	-
<i>F. thapsinum</i>	F-4093 ^b	-
<i>F. thapsinum</i>	F-4094 ^b	-
<i>F. torulosum</i>	11419 ^b	-
<i>F. tricinctum</i>	20990 ^b	+
<i>F. venenatum</i>	18982 ^b	-
<i>F. verticillioides</i>	A-0149 ^b	-
<i>F. verticillioides</i>	A-0999 ^b	-
<i>F. verticillioides</i>	F149N8 ^c	-
<i>F. virguliforme</i>	20485 ^b	-
<i>F. xylarioides</i>	18977 ^b	-

^a = USDA-ARS/Michigan State University, ^b = Kansas State University Teaching Collection, ^c = Schmale Laboratory at Virginia Tech

Figure S1. Variation of IN activity within *Fusarium armeniacum* 20970: cumulative number of IN (N_m) per gram of mycelium plotted against the temperature (T). Three independent measurements with aqueous extracts from different fungal culture plates. The error bars were calculated using the counting error and the Gaussian error propagation.

