

**Table S1.** Fungal species, host, origin and the test results in loop-mediated isothermal amplification (LAMP) assay.

No.	Species	Isolates	Host	Location	LAMP assay
1	<i>Pyrenophora graminea</i>	P. g-1	<i>Hordeum vulgare</i> .	Haidong, Qinghai	+
2	<i>P. graminea</i>	P. g-2	<i>H. vulgare</i>	Haidong, Qinghai	+
3	<i>P. graminea</i>	P. g-3	<i>H. vulgare</i>	Huangnan, Qinghai	+
4	<i>P. graminea</i>	P. g-4	<i>H. vulgare</i>	Hainan, Qinghai	+
5	<i>P. graminea</i>	P. g-5	<i>H. vulgare</i>	Hainan, Qinghai	+
6	<i>P. graminea</i>	P. g-6	<i>H. vulgare</i>	Hainan, Qinghai	+
7	<i>P. graminea</i>	P. g-7	<i>H. vulgare</i>	Hainan, Qinghai	+
8	<i>P. graminea</i>	P. g-8	<i>H. vulgare</i>	Hainan, Qinghai	+
9	<i>P. graminea</i>	P. g-9	<i>H. vulgare</i>	Hainan, Qinghai	+
10	<i>P. graminea</i>	P. g-10	<i>H. vulgare</i>	Hainan, Qinghai	+
11	<i>P. graminea</i>	P. g-11	<i>H. vulgare</i>	Hainan, Qinghai	+
12	<i>P. graminea</i>	P. g-12	<i>H. vulgare</i>	Xining, Qinghai	+
13	<i>P. graminea</i>	P. g-13	<i>H. vulgare</i>	Xining, Qinghai	+
14	<i>P. graminea</i>	P. g-14	<i>H. vulgare</i>	Datong, Qinghai	+
15	<i>P. graminea</i>	P. g-15	<i>H. vulgare</i>	Haibei, Qinghai	+
16	<i>P. graminea</i>	P. g-16	<i>H. vulgare</i>	Haibei, Qinghai	+
17	<i>P. graminea</i>	P. g-17	<i>H. vulgare</i>	Xining, Qinghai	+
18	<i>P. graminea</i>	P. g-18	<i>H. vulgare</i>	Xining, Qinghai	+

19	<i>P. graminea</i>	P. g-19	<i>H. vulgare</i>	Haibei, Qinghai	+
20	<i>P. graminea</i>	P. g-20	<i>H. vulgare</i>	Haibei, Qinghai	+
21	<i>P. graminea</i>	P. g-21	<i>H. vulgare</i>	Haibei, Qinghai	+
22	<i>P. graminea</i>	P. g-22	<i>H. vulgare</i>	Haibei, Qinghai	+
23	<i>P. graminea</i>	P. g-23	<i>H. vulgare</i>	Haidong, Qinghai	+
24	<i>P. graminea</i>	P. g-24	<i>H. vulgare</i>	Haidong, Qinghai	+
25	<i>P. graminea</i>	P. g-52	<i>H. vulgare</i>	Haidong, Qinghai	+
26	<i>P. graminea</i>	P. g-26	<i>H. vulgare</i>	Xining, Qinghai	+
27	<i>P. graminea</i>	P. g-27	<i>H. vulgare</i>	Haixi, Qinghai	+
28	<i>P. graminea</i>	P. g-28	<i>H. vulgare</i>	Hainan, Qinghai	+
29	<i>P. graminea</i>	P. g-29	<i>H. vulgare</i>	Hainan, Qinghai	+
30	<i>P. graminea</i>	P. g-30	<i>H. vulgare</i>	Hainan, Qinghai	+
31	<i>P. graminea</i>	P. g-31	<i>H. vulgare</i>	Haixi, Qinghai	+
32	<i>P. graminea</i>	P. g-32	<i>H. vulgare</i>	Hainan, Qinghai	+
33	<i>P. graminea</i>	P. g-33	<i>H. vulgare</i>	Hainan, Qinghai	+
34	<i>P. graminea</i>	P. g-34	<i>H. vulgare</i>	Hainan, Qinghai	+
35	<i>P. graminea</i>	P. g-35	<i>H. vulgare</i>	Haixi, Qinghai	+
36	<i>P. graminea</i>	P. g-36	<i>H. vulgare</i>	Haixi, Qinghai	+
37	<i>P. graminea</i>	P. g-37	<i>H. vulgare</i>	Haixi, Qinghaiv	+
38	<i>P. graminea</i>	P. g-38	<i>H. vulgare</i>	Haixi, Qinghai	+
39	<i>P. graminea</i>	P. g-39	<i>H. vulgare</i>	Haixi, Qinghai	+
40	<i>Pyrenophora avena</i>	P. a-1	<i>Avena sativa</i> .	-	—

41	<i>Ustilago hordei</i>	U. h-1	<i>H. vulgare</i>	Xining, Qinghai	—
42	<i>Ustilago nuda</i>	U. n-1	<i>H. vulgare</i>	Xining, Qinghai	—
43	<i>Dactylobotrys graminicola</i>	D. g-1	<i>H. vulgare</i>	Haibei, Qinghai	—
44	<i>Alternaria alternata</i>	A. a-1	<i>H. vulgare</i>	Xining, Qinghai	—
45	<i>Fusarium graminearum</i>	F. g-1	<i>H. vulgare</i>	-	—
46	<i>Pyricularia oryzae</i>	P. o-1	<i>Oryza sativa</i> .	-	—
47	<i>Puccinia striiformis</i>	P. s-1	<i>Triticum aestivum</i> .	Xining, Qinghai	—