Table S1. Selected lines and cultivars of the genus *Triticum* with varied susceptibility to FHB.

***Triticum* Species/Line**	**Origin[§]**	**Susceptibility to *FHB*[‡]**
***T. monococcum* ssp. *monococcum* 222 (Tmm222)**	**TRI**	10.0
***T. monococcum* ssp. *monococcum* 168 (Tmm168)**	TRI	0
***T. turgidum* ssp. *dicoccum* 57 (Td57)**	TRI	15
***T. turgidum* ssp. *dicoccum* 115 (Td115)**	TRI	5
***T. turgidum* ssp. *polonicum* 131 (Tp131)**	TRI	25
***T. turgidum* ssp. *polonicum* 159 (Tp159)**	TRI	30
T. turgidum* ssp. *durum cv. Komnata	UWM	15
***T. aestivum* ssp. *spelta* cv. Wirtas**	UWM	0
***T. aestivum* ssp. *spelta* 208 (Ts208)**	TRI	5
***T. aestivum* ssp. *aestivum* cv. Sumai**		0
***T. aestivum* ssp. *aestivum* cv. Zebra**	UWM	15.0

[‡] severity of disease in naturally infected plants in 2014-2015. percentage of spike area displaying symptoms of Fusarium head blight in hard maturity growth stage. [§]UWM—University of Warmia and Mazury in Olsztyn (Poland). TRI—Leibniz Institute of Plant Genetics and Crop Plant Research in Gatersleben (Germany)

Table S2. Sequence alignment in *Fusarium* spp. isolates from own collection and reference isolates from NCBI.

Code of *Fusarium* Isolates from Own Collection	**Reference Isolates (NCBI)**	**Sequence Alignment [%]**	**References**
Fg35	KX878931.1 *Fusarium graminearum*	92.9	https://figshare.com/s/2d5f82f7b6b81044e83a
Fg37	MF800906.1 *Fusarium graminearum*	94	https://figshare.com/s/906c9156e9f014016489
Fg49	MF800906.1 *Fusarium graminearum*	91.3	https://figshare.com/s/47efb3d5ca22ca58082e
Fg74	KX421420.1 *Fusarium graminearum*	95	https://figshare.com/s/32d82463a634e66c614b
Fg107	KU377276.1 *Fusarium graminearum*	98	https://figshare.com/s/455e73f00a94b349ce30
Fg249	KX421420.1 *Fusarium graminearum*	95	https://figshare.com/s/5c15caa12425d595cabc
Fc321	KP292806.1 *Fusarium culmorum*	94	https://figshare.com/s/0421684e56c53937960f
Fc329	AY147341.1 *Fusarium culmorum*	96	https://figshare.com/s/5972b1d226d8e648a6ec
Fc31	KX349468.1 *Fusarium culmorum*	92.51	https://figshare.com/s/fd2bc45c94144009436f
Fc32	KT318585.1 *Fusarium culmorum*	95.68	https://figshare.com/s/1ac95680a4645425afad
Fc61	MF372583.1 *Fusarium culmorum*	98.34	https://figshare.com/s/22b4480f33c2e547dc1e
Fc62	KT992460.1 *Fusarium culmorum*	96.28	https://figshare.com/s/acf13e7b804697e8dfe4
Fp21	KP271956.1 *Fusarium poae*	97.78	https://figshare.com/s/be0a38f9a75079c179e0
Fp22	GU480965.1 *Fusarium poae*	97.01	https://figshare.com/s/48b9f5d4adbd17669057
Fp48	AF414967.1 *Fusarium poae*	96.27	https://figshare.com/s/0fdf3bf786c5740b1883
Fp206	KF889085.1 *Fusarium poae*	95.16	https://figshare.com/s/078d7f7e2825b26306ea
Fl53	AB587023.1 *Fusarium langsethiae*	91.42	https://figshare.com/s/d9f36d59421357491e09
Fl87	NR.121214.1 *Fusarium langsethiae*	90.3	https://figshare.com/s/866e93f7cceb7ce87645
Fl130	AF414969.1 *Fusarium langsethiae*	91.74	https://figshare.com/s/eb5468f2ed36900b01b7
Fa9	KT362194.1 *Fusarium avenaceum*	90.15	https://figshare.com/s/25248245872ba8c079b2
Feq3	MF166765.1 *Fusarium equiseti*	97.5	https://figshare.com/s/643e8ff0b7180b3b0e18
Feq25	KR094440.1 *Fusarium equiseti*	99.62	https://figshare.com/s/93560d66b4b4556098d5
Feq36	KU680356.1 *Fusarium equiseti*	97.94	https://figshare.com/s/28dc85ea0b8e80da4947
Feq37	KU680356.1 *Fusarium equiseti*	97.91	https://figshare.com/s/fb0734ee0173daa06027
Fd13	KX270351.1 *Fusarium dimerum*	90.91	https://figshare.com/s/c8f98ae292dfb6e93d40

Fd15	KX270351.1 *Fusarium dimerum*	94.49	https://figshare.com/s/3a3f467e3aef6ca535ae

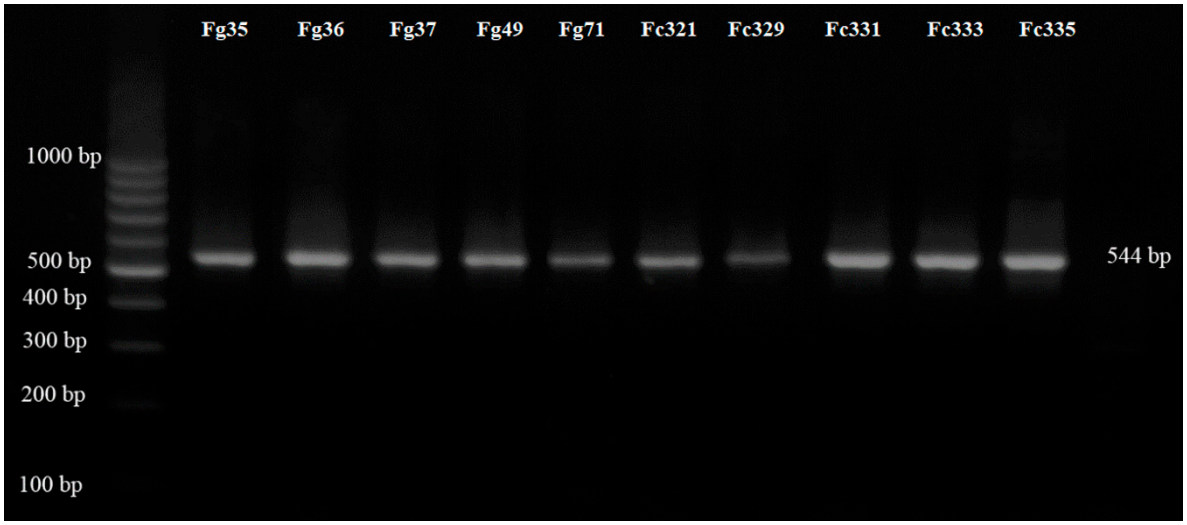

Figure S1. Gel image after electrophoresis. EtBr was added to the gel before electrophoresis to visualize products with the expected size of 544 bp. Line 1: 100–1000 bp marker. all lines- exemplary *F.culmorum* and *F. graminearum* isolates with the *Tri5* gene marker.

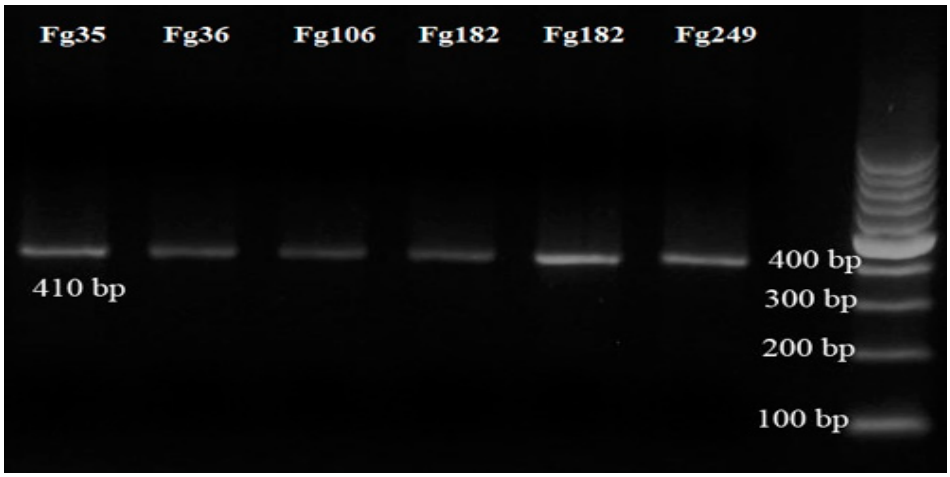

Figure S2. Gel image after electrophoresis. EtBr was added to the gel before electrophoresis to visualize products with the expected size of 410 bp. Lines 1–6: exemplary *F. graminearum* isolates with the *Tri12* gene producing 3-ADON. Line 7: 100–1000 bp marker.