Figure S1 FgV1 FgV2 FgV3 FgV4 Α DK3 M1 DK3 2 М2 2 no template В no template no template 0K3 1 М1 М1 2 6 C M1 PH- 1 PH- 1 DK2 1 PH-1 (MT) (N/3°) M1 PH-14/1/19/8 kb kb kb kb 23.1 9.4 6.5 23.1 9.4 6.5 23.1 23.1 9.4 6.5 4.3 9.4 6.5 4.3 4.3 4.3 2.3 2.0 2:3 2.3 2.0 2.3 2.0 0.56 0.56 0.56 0.56 D bp bp bp bp 1 2 3 4 5 6 7 8 9 10 11 1 2 3 4 5 6 M 1 2 3 4 5 6 7 8 2 3 4 5 439 439 439 439 426 426 426 426 334 334 334 334 215 215 215 215 179 179 179 179 136 136 136 136 104 104 104 104

Figure S2

Histon H3 position F. asiaticum- 278 (G), Fusarium graminearum- 279(T)

		220	*	240	*	260	*	280
DK21	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCACCA	CCTGAACATC	GCATCATCGCT	TGACA
98-8-60	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCTGAACATC	GCATCATCGCA	TG <mark>G</mark> CA
DK3	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	TGATA
NRRL 5883	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_6394	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_13383	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_28063	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_28336	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_29169	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
NRRL_31084	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
PH-1(FgV1)	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
PH-1 (FgV2)	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
PH-1 (FgV3)	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
PH-1 (FgV4)	:	GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCATCA	CCCGAACATC	GCATCATCGCT	'TGA <mark>T</mark> A
		GCTTCTCATCCGAAA	GCTCCCCTI	CCAGCGTCTC	GTAAGCAtCA	CCcGAACATC	GCATCATCGCt	TGatA

Figure S3

PH-1 strains infected with

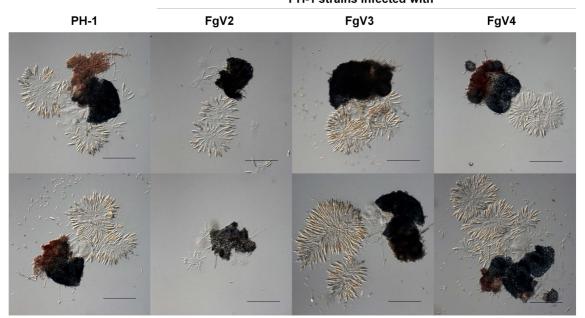


Figure S4

PH-1 strains infected with

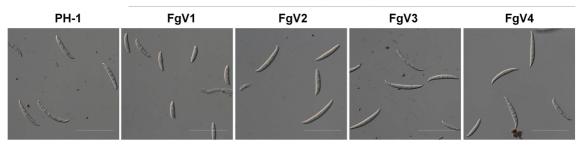


Figure S5

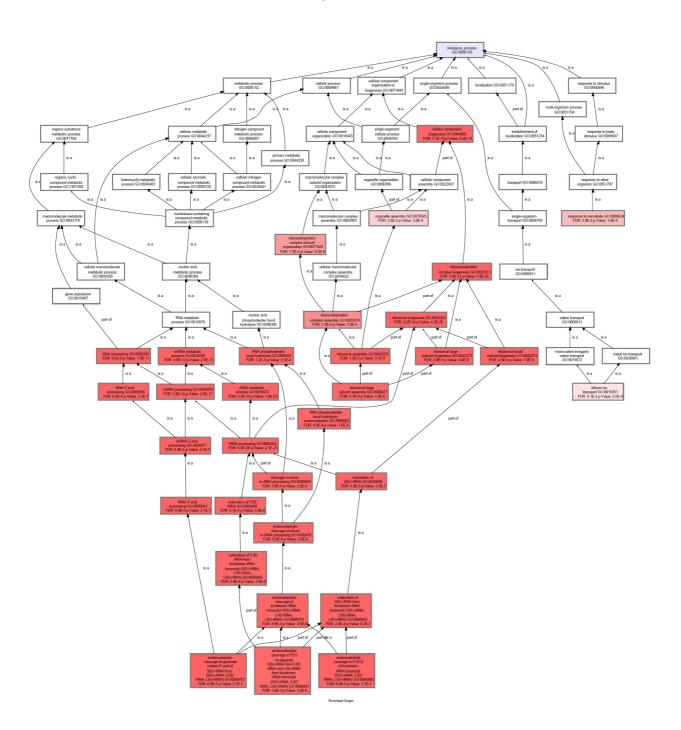


Figure S6

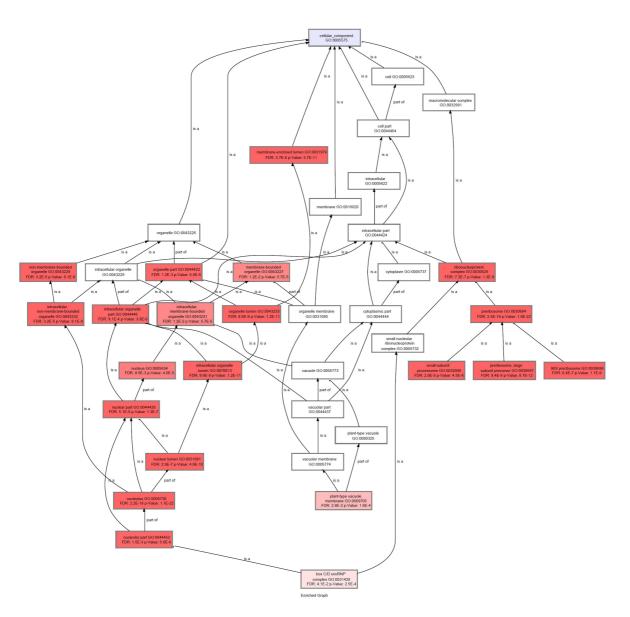


Figure S7

