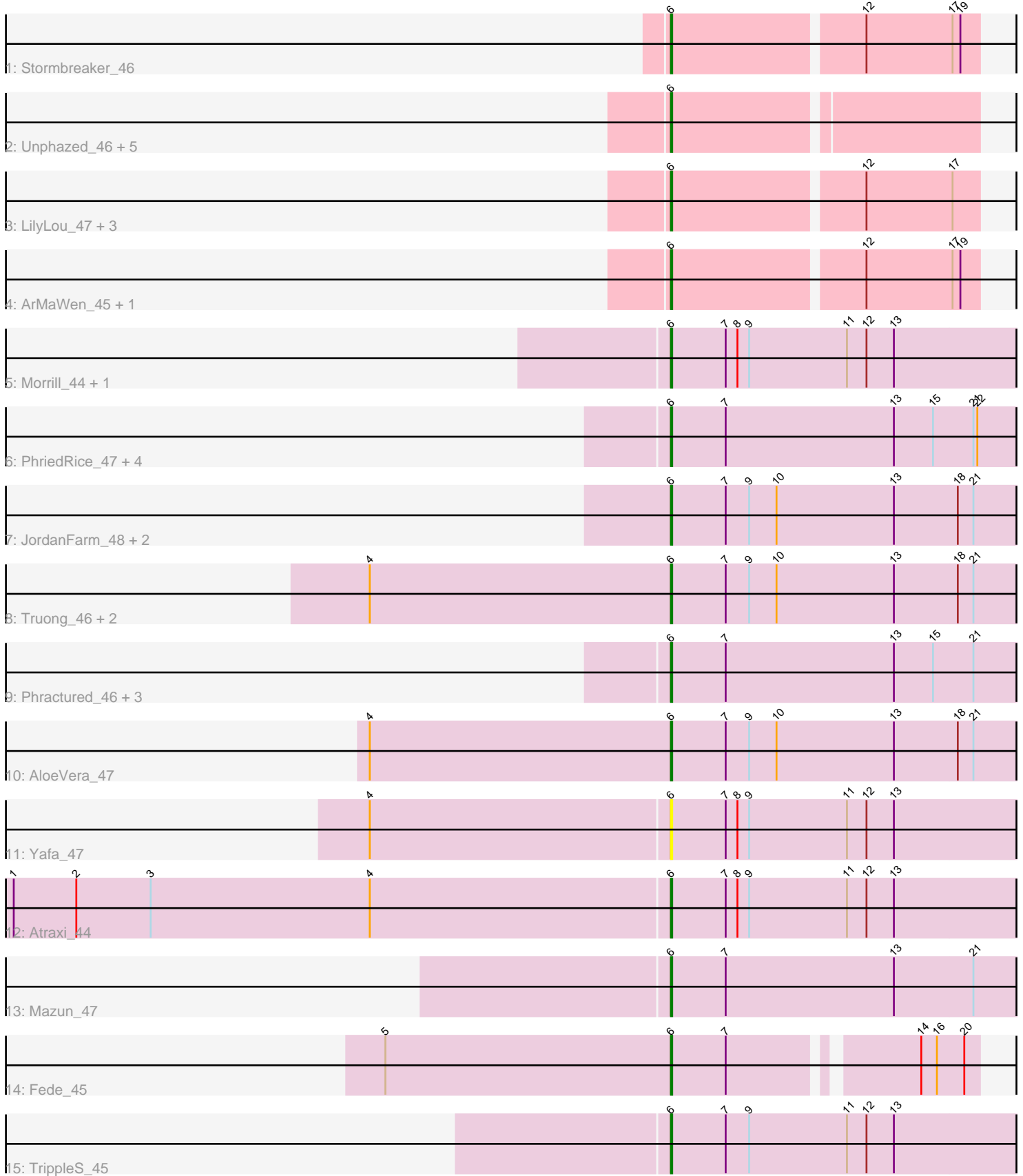


Pham 171633



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 171633 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171633 has 36 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Stormbreaker\_46
- Track 2 : Unphazed\_46, Xitlalli\_44, Birdfeeder\_44, Corn21\_45, BlueRugrat\_45, LesNorah\_46
- Track 3 : LilyLou\_47, Dashyla\_45, Phogo\_46, Alex44\_46
- Track 4 : ArMaWen\_45, DumpQuist\_45
- Track 5 : Morrill\_44, ThirteenKH\_46
- Track 6 : PhriedRice\_47, Astartes\_46, RicoCaldo\_46, Moleficent\_46, Fullmetal\_46
- Track 7 : JordanFarm\_48, Ashton\_47, Waterlily\_49
- Track 8 : Truong\_46, Barroma\_45, Akoni\_46
- Track 9 : Phracted\_46, Pharky\_46, Phedro\_46, StagePhright\_46
- Track 10 : AloeVera\_47
- Track 11 : Yafa\_47
- Track 12 : Atraxi\_44
- Track 13 : Mazun\_47
- Track 14 : Fede\_45
- Track 15 : TrippleS\_45

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 6, it was called in 33 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_46, Alex44\_46, AloeVera\_47, ArMaWen\_45, Ashton\_47, Astartes\_46, Atraxi\_44, Barroma\_45, Birdfeeder\_44, BlueRugrat\_45, Corn21\_45, Dashyla\_45, DumpQuist\_45, Fede\_45, Fullmetal\_46, JordanFarm\_48, LesNorah\_46, LilyLou\_47, Mazun\_47, Moleficent\_46, Morrill\_44, Pharky\_46, Phedro\_46, Phogo\_46, Phracted\_46, PhriedRice\_47, RicoCaldo\_46, StagePhright\_46, Stormbreaker\_46, ThirteenKH\_46, TrippleS\_45, Truong\_46, Unphazed\_46, Waterlily\_49, Xitlalli\_44, Yafa\_47,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- 

### Summary by start number:

Start 6:

- Found in 36 of 36 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 33 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Akoni\_46 (EK2), Alex44\_46 (EK1), AloeVera\_47 (EK2), ArMaWen\_45 (EK1), Ashton\_47 (EK2), Astartes\_46 (EK2), Atraxi\_44 (EK2), Barroma\_45 (EK2), Birdfeeder\_44 (EK1), BlueRugrat\_45 (EK1), Corn21\_45 (EK1), Dashyla\_45 (EK1), DumpQuist\_45 (EK1), Fede\_45 (EK2), Fullmetal\_46 (EK2), JordanFarm\_48 (EK2), LesNorah\_46 (EK1), LilyLou\_47 (EK1), Mazun\_47 (EK2), Moleficient\_46 (EK2), Morrill\_44 (EK2), Pharky\_46 (EK2), Phedro\_46 (EK2), Phogo\_46 (EK1), Phracted\_46 (EK2), PhriedRice\_47 (EK2), RicoCaldo\_46 (EK2), StagePhright\_46 (EK2), Stormbreaker\_46 (EK1), ThirteenKH\_46 (EK2), TrippleS\_45 (EK2), Truong\_46 (EK2), Unphazed\_46 (EK1), Waterlily\_49 (EK2), Xitlalli\_44 (EK1), Yafa\_47 (EK2),

### Summary by clusters:

There are 2 clusters represented in this pham: EK2, EK1,

Info for manual annotations of cluster EK1:

- Start number 6 was manually annotated 13 times for cluster EK1.

Info for manual annotations of cluster EK2:

- Start number 6 was manually annotated 20 times for cluster EK2.

### Gene Information:

Gene: Akoni\_46 Start: 47955, Stop: 48233, Start Num: 6

Candidate Starts for Akoni\_46:

(4, 47724), (Start: 6 @47955 has 33 MA's), (7, 47997), (9, 48015), (10, 48036), (13, 48126), (18, 48174), (21, 48186),

Gene: Alex44\_46 Start: 46219, Stop: 46446, Start Num: 6

Candidate Starts for Alex44\_46:

(Start: 6 @46219 has 33 MA's), (12, 46360), (17, 46426),

Gene: AloeVera\_47 Start: 48168, Stop: 48446, Start Num: 6

Candidate Starts for AloeVera\_47:

(4, 47937), (Start: 6 @48168 has 33 MA's), (7, 48210), (9, 48228), (10, 48249), (13, 48339), (18, 48387), (21, 48399),

Gene: ArMaWen\_45 Start: 45762, Stop: 45989, Start Num: 6

Candidate Starts for ArMaWen\_45:

(Start: 6 @45762 has 33 MA's), (12, 45903), (17, 45969), (19, 45975),

Gene: Ashton\_47 Start: 48167, Stop: 48445, Start Num: 6

Candidate Starts for Ashton\_47:

(Start: 6 @48167 has 33 MA's), (7, 48209), (9, 48227), (10, 48248), (13, 48338), (18, 48386), (21, 48398),

Gene: Astartes\_46 Start: 47708, Stop: 47983, Start Num: 6

Candidate Starts for Astartes\_46:

(Start: 6 @47708 has 33 MA's), (7, 47750), (13, 47879), (15, 47909), (21, 47939), (22, 47942),

Gene: Atraxi\_44 Start: 47500, Stop: 47775, Start Num: 6

Candidate Starts for Atraxi\_44:

(1, 46999), (2, 47047), (3, 47104), (4, 47272), (Start: 6 @47500 has 33 MA's), (7, 47542), (8, 47551), (9, 47560), (11, 47635), (12, 47650), (13, 47671),

Gene: Barroma\_45 Start: 47957, Stop: 48235, Start Num: 6

Candidate Starts for Barroma\_45:

(4, 47726), (Start: 6 @47957 has 33 MA's), (7, 47999), (9, 48017), (10, 48038), (13, 48128), (18, 48176), (21, 48188),

Gene: Birdfeeder\_44 Start: 45975, Stop: 46196, Start Num: 6

Candidate Starts for Birdfeeder\_44:

(Start: 6 @45975 has 33 MA's),

Gene: BlueRugrat\_45 Start: 46199, Stop: 46420, Start Num: 6

Candidate Starts for BlueRugrat\_45:

(Start: 6 @46199 has 33 MA's),

Gene: Corn21\_45 Start: 46277, Stop: 46498, Start Num: 6

Candidate Starts for Corn21\_45:

(Start: 6 @46277 has 33 MA's),

Gene: Dashyla\_45 Start: 45893, Stop: 46120, Start Num: 6

Candidate Starts for Dashyla\_45:

(Start: 6 @45893 has 33 MA's), (12, 46034), (17, 46100),

Gene: DumpQuist\_45 Start: 45747, Stop: 45974, Start Num: 6

Candidate Starts for DumpQuist\_45:

(Start: 6 @45747 has 33 MA's), (12, 45888), (17, 45954), (19, 45960),

Gene: Fede\_45 Start: 46720, Stop: 46935, Start Num: 6

Candidate Starts for Fede\_45:

(5, 46501), (Start: 6 @46720 has 33 MA's), (7, 46762), (14, 46891), (16, 46903), (20, 46924),

Gene: Fullmetal\_46 Start: 48043, Stop: 48318, Start Num: 6

Candidate Starts for Fullmetal\_46:

(Start: 6 @48043 has 33 MA's), (7, 48085), (13, 48214), (15, 48244), (21, 48274), (22, 48277),

Gene: JordanFarm\_48 Start: 48168, Stop: 48446, Start Num: 6

Candidate Starts for JordanFarm\_48:

(Start: 6 @48168 has 33 MA's), (7, 48210), (9, 48228), (10, 48249), (13, 48339), (18, 48387), (21, 48399),

Gene: LesNorah\_46 Start: 46596, Stop: 46817, Start Num: 6

Candidate Starts for LesNorah\_46:

(Start: 6 @46596 has 33 MA's),

Gene: LilyLou\_47 Start: 46211, Stop: 46438, Start Num: 6

Candidate Starts for LilyLou\_47:

(Start: 6 @46211 has 33 MA's), (12, 46352), (17, 46418),

Gene: Mazun\_47 Start: 48446, Stop: 48721, Start Num: 6

Candidate Starts for Mazun\_47:

(Start: 6 @48446 has 33 MA's), (7, 48488), (13, 48617), (21, 48677),

Gene: Moleficient\_46 Start: 48050, Stop: 48325, Start Num: 6

Candidate Starts for Moleficient\_46:

(Start: 6 @48050 has 33 MA's), (7, 48092), (13, 48221), (15, 48251), (21, 48281), (22, 48284),

Gene: Morrill\_44 Start: 47480, Stop: 47755, Start Num: 6

Candidate Starts for Morrill\_44:

(Start: 6 @47480 has 33 MA's), (7, 47522), (8, 47531), (9, 47540), (11, 47615), (12, 47630), (13, 47651),

Gene: Pharky\_46 Start: 48046, Stop: 48321, Start Num: 6

Candidate Starts for Pharky\_46:

(Start: 6 @48046 has 33 MA's), (7, 48088), (13, 48217), (15, 48247), (21, 48277),

Gene: Phedro\_46 Start: 48046, Stop: 48321, Start Num: 6

Candidate Starts for Phedro\_46:

(Start: 6 @48046 has 33 MA's), (7, 48088), (13, 48217), (15, 48247), (21, 48277),

Gene: Phogo\_46 Start: 46039, Stop: 46266, Start Num: 6

Candidate Starts for Phogo\_46:

(Start: 6 @46039 has 33 MA's), (12, 46180), (17, 46246),

Gene: Phractured\_46 Start: 48046, Stop: 48321, Start Num: 6

Candidate Starts for Phractured\_46:

(Start: 6 @48046 has 33 MA's), (7, 48088), (13, 48217), (15, 48247), (21, 48277),

Gene: PhriedRice\_47 Start: 48150, Stop: 48425, Start Num: 6

Candidate Starts for PhriedRice\_47:

(Start: 6 @48150 has 33 MA's), (7, 48192), (13, 48321), (15, 48351), (21, 48381), (22, 48384),

Gene: RicoCaldo\_46 Start: 48128, Stop: 48403, Start Num: 6

Candidate Starts for RicoCaldo\_46:

(Start: 6 @48128 has 33 MA's), (7, 48170), (13, 48299), (15, 48329), (21, 48359), (22, 48362),

Gene: StagePhright\_46 Start: 48046, Stop: 48321, Start Num: 6

Candidate Starts for StagePhright\_46:

(Start: 6 @48046 has 33 MA's), (7, 48088), (13, 48217), (15, 48247), (21, 48277),

Gene: Stormbreaker\_46 Start: 46127, Stop: 46354, Start Num: 6

Candidate Starts for Stormbreaker\_46:

(Start: 6 @46127 has 33 MA's), (12, 46268), (17, 46334), (19, 46340),

Gene: ThirteenKH\_46 Start: 47490, Stop: 47765, Start Num: 6

Candidate Starts for ThirteenKH\_46:

(Start: 6 @47490 has 33 MA's), (7, 47532), (8, 47541), (9, 47550), (11, 47625), (12, 47640), (13, 47661),

Gene: TrippleS\_45 Start: 47639, Stop: 47914, Start Num: 6

Candidate Starts for TrippleS\_45:

(Start: 6 @47639 has 33 MA's), (7, 47681), (9, 47699), (11, 47774), (12, 47789), (13, 47810),

Gene: Truong\_46 Start: 47957, Stop: 48235, Start Num: 6

Candidate Starts for Truong\_46:

(4, 47726), (Start: 6 @47957 has 33 MA's), (7, 47999), (9, 48017), (10, 48038), (13, 48128), (18, 48176), (21, 48188),

Gene: Unphazed\_46 Start: 46000, Stop: 46224, Start Num: 6

Candidate Starts for Unphazed\_46:

(Start: 6 @46000 has 33 MA's),

Gene: Waterlily\_49 Start: 48208, Stop: 48486, Start Num: 6

Candidate Starts for Waterlily\_49:

(Start: 6 @48208 has 33 MA's), (7, 48250), (9, 48268), (10, 48289), (13, 48379), (18, 48427), (21, 48439),

Gene: Xitlalli\_44 Start: 46004, Stop: 46225, Start Num: 6

Candidate Starts for Xitlalli\_44:

(Start: 6 @46004 has 33 MA's),

Gene: Yafa\_47 Start: 47394, Stop: 47669, Start Num: 6

Candidate Starts for Yafa\_47:

(4, 47166), (Start: 6 @47394 has 33 MA's), (7, 47436), (8, 47445), (9, 47454), (11, 47529), (12, 47544), (13, 47565),