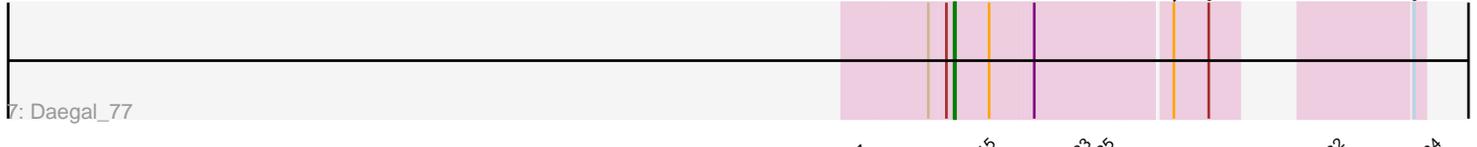
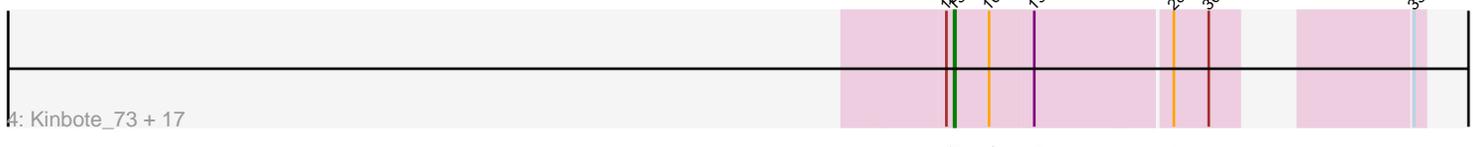
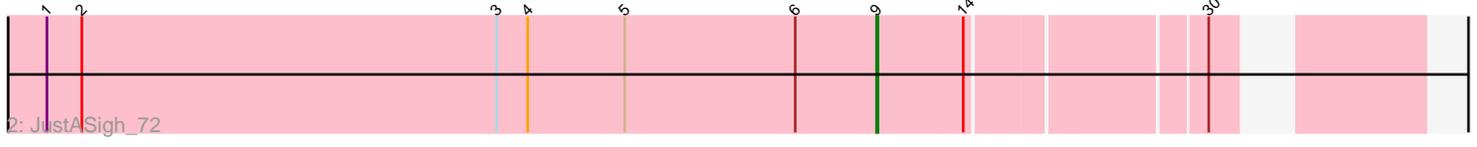
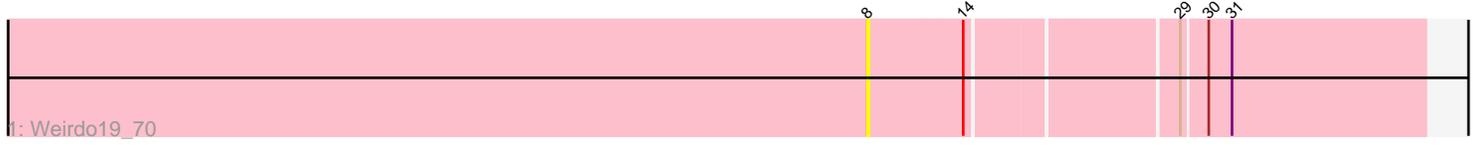


Pham 291405



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 291405 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291405 has 30 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Weirdo19_70
- Track 2 : JustASigh_72
- Track 3 : Forge_68, Wishmaker_68, BloominB_75
- Track 4 : Kinbote_73, Ubuntu_75, Dewey_68, Hadrien_72, Evanesce_74, LilHazelnut_75, Webster2_75, Amymech_75, Ein37_75, Hail_68, OBUpride_74, Luna22_68, HH92_74, DeepSoil15_75, Luke_72, Gravaillia_69, Amochick_76, Giles_68
- Track 5 : Gancho_74
- Track 6 : NovoPizza_80
- Track 7 : Daegal_77
- Track 8 : Rem711_73
- Track 9 : 32HC_74
- Track 10 : E3_gp75
- Track 11 : Footloose_55

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

The start number called the most often in the published annotations is 13, it was called in 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick_76, Amymech_75, Daegal_77, DeepSoil15_75, Dewey_68, Ein37_75, Evanesce_74, Gancho_74, Giles_68, Gravaillia_69, HH92_74, Hadrien_72, Hail_68, Kinbote_73, LilHazelnut_75, Luke_72, Luna22_68, OBUpride_74, Ubuntu_75, Webster2_75,

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

- BloominB_75, Forge_68, NovoPizza_80, Wishmaker_68,

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

- 32HC_74, E3_gp75, Footloose_55, JustASigh_72, Rem711_73, Weirdo19_70,

Summary by start number:

Start 7:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_74 (Z), Rem711_73 (Z),

Start 8:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weirido19_70 (AH),

Start 9:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JustASigh_72 (AH),

Start 11:

- Found in 2 of 30 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 50.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_80 (Q),

Start 13:

- Found in 24 of 30 (80.0%) of genes in pham
- Manual Annotations of this start: 20 of 26
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Amochick_76 (Q), Amymech_75 (Q), Daegal_77 (Q), DeepSoil15_75 (Q), Dewey_68 (Q), Ein37_75 (Q), Evanesce_74 (Q), Gancho_74 (Q), Giles_68 (Q), Gravaillia_69 (Q), HH92_74 (Q), Hadrien_72 (Q), Hail_68 (Q), Kinbote_73 (Q), LilHazelNut_75 (Q), Luke_72 (Q), Luna22_68 (Q), OBUpride_74 (Q), Ubuntu_75 (Q), Webster2_75 (Q),

Start 16:

- Found in 23 of 30 (76.7%) of genes in pham
- Manual Annotations of this start: 2 of 26
- Called 13.0% of time when present
- Phage (with cluster) where this start called: BloominB_75 (Q), Forge_68 (Q), Wishmaker_68 (Q),

Start 17:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3_gp75 (singleton),

Start 18:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 26
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Footloose_55 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: Q, AH, singleton, Z,

Info for manual annotations of cluster AH:

- Start number 9 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster Q:

- Start number 11 was manually annotated 1 time for cluster Q.
- Start number 13 was manually annotated 20 times for cluster Q.
- Start number 16 was manually annotated 2 times for cluster Q.

Info for manual annotations of cluster Z:

- Start number 7 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_74 Start: 45244, Stop: 45657, Start Num: 7

Candidate Starts for 32HC_74:

(Start: 7 @45244 has 1 MA's), (15, 45337), (23, 45409), (25, 45421), (32, 45547), (34, 45622),

Gene: Amochick_76 Start: 49396, Stop: 49704, Start Num: 13

Candidate Starts for Amochick_76:

(12, 49390), (Start: 13 @49396 has 20 MA's), (Start: 16 @49423 has 2 MA's), (19, 49456), (28, 49558), (30, 49585), (33, 49696),

Gene: Amymech_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Amymech_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: BloominB_75 Start: 48876, Stop: 49157, Start Num: 16

Candidate Starts for BloominB_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Daegal_77 Start: 49955, Stop: 50263, Start Num: 13

Candidate Starts for Daegal_77:

(Start: 11 @49937 has 1 MA's), (12, 49949), (Start: 13 @49955 has 20 MA's), (Start: 16 @49982 has 2 MA's), (19, 50015), (28, 50117), (30, 50144), (33, 50255),

Gene: DeepSoil15_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for DeepSoil15_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Dewey_68 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Dewey_68:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: E3_gp75 Start: 36271, Stop: 36531, Start Num: 17

Candidate Starts for E3_gp75:

(10, 36193), (17, 36271), (21, 36319), (22, 36325), (24, 36346), (26, 36388), (27, 36394), (31, 36454),

Gene: Ein37_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Ein37_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Evanesce_74 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Evanesce_74:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Footloose_55 Start: 31826, Stop: 32083, Start Num: 18

Candidate Starts for Footloose_55:

(Start: 18 @31826 has 1 MA's), (20, 31838),

Gene: Forge_68 Start: 48876, Stop: 49157, Start Num: 16

Candidate Starts for Forge_68:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Gancho_74 Start: 48624, Stop: 48932, Start Num: 13

Candidate Starts for Gancho_74:

(12, 48618), (Start: 13 @48624 has 20 MA's), (Start: 16 @48651 has 2 MA's), (19, 48684), (28, 48786), (33, 48924),

Gene: Giles_68 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Giles_68:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Gravaillia_69 Start: 48905, Stop: 49213, Start Num: 13

Candidate Starts for Gravaillia_69:

(12, 48899), (Start: 13 @48905 has 20 MA's), (Start: 16 @48932 has 2 MA's), (19, 48965), (28, 49067), (30, 49094), (33, 49205),

Gene: HH92_74 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for HH92_74:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Hadrien_72 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Hadrien_72:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Hail_68 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Hail_68:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: JustASigh_72 Start: 46685, Stop: 47041, Start Num: 9

Candidate Starts for JustASigh_72:

(1, 46043), (2, 46070), (3, 46391), (4, 46415), (5, 46490), (6, 46622), (Start: 9 @46685 has 1 MA's), (14, 46751), (30, 46919),

Gene: Kinbote_73 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Kinbote_73:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: LilHazelnut_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for LilHazelnut_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Luke_72 Start: 48804, Stop: 49112, Start Num: 13

Candidate Starts for Luke_72:

(12, 48798), (Start: 13 @48804 has 20 MA's), (Start: 16 @48831 has 2 MA's), (19, 48864), (28, 48966), (30, 48993), (33, 49104),

Gene: Luna22_68 Start: 48833, Stop: 49141, Start Num: 13

Candidate Starts for Luna22_68:

(12, 48827), (Start: 13 @48833 has 20 MA's), (Start: 16 @48860 has 2 MA's), (19, 48893), (28, 48995), (30, 49022), (33, 49133),

Gene: NovoPizza_80 Start: 50985, Stop: 51311, Start Num: 11

Candidate Starts for NovoPizza_80:

(Start: 11 @50985 has 1 MA's), (Start: 13 @51003 has 20 MA's), (19, 51063), (28, 51165),

Gene: OBUpride_74 Start: 48893, Stop: 49201, Start Num: 13

Candidate Starts for OBUpride_74:

(12, 48887), (Start: 13 @48893 has 20 MA's), (Start: 16 @48920 has 2 MA's), (19, 48953), (28, 49055), (30, 49082), (33, 49193),

Gene: Rem711_73 Start: 45203, Stop: 45616, Start Num: 7

Candidate Starts for Rem711_73:

(Start: 7 @45203 has 1 MA's), (15, 45296), (23, 45368), (25, 45380), (32, 45506), (34, 45581),

Gene: Ubuntu_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Ubuntu_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Webster2_75 Start: 48849, Stop: 49157, Start Num: 13

Candidate Starts for Webster2_75:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011), (30, 49038), (33, 49149),

Gene: Weirdo19_70 Start: 45292, Stop: 45699, Start Num: 8

Candidate Starts for Weirdo19_70:

(8, 45292), (14, 45364), (29, 45514), (30, 45532), (31, 45550),

Gene: Wishmaker_68 Start: 48876, Stop: 49157, Start Num: 16

Candidate Starts for Wishmaker_68:

(12, 48843), (Start: 13 @48849 has 20 MA's), (Start: 16 @48876 has 2 MA's), (19, 48909), (28, 49011),
(30, 49038), (33, 49149),