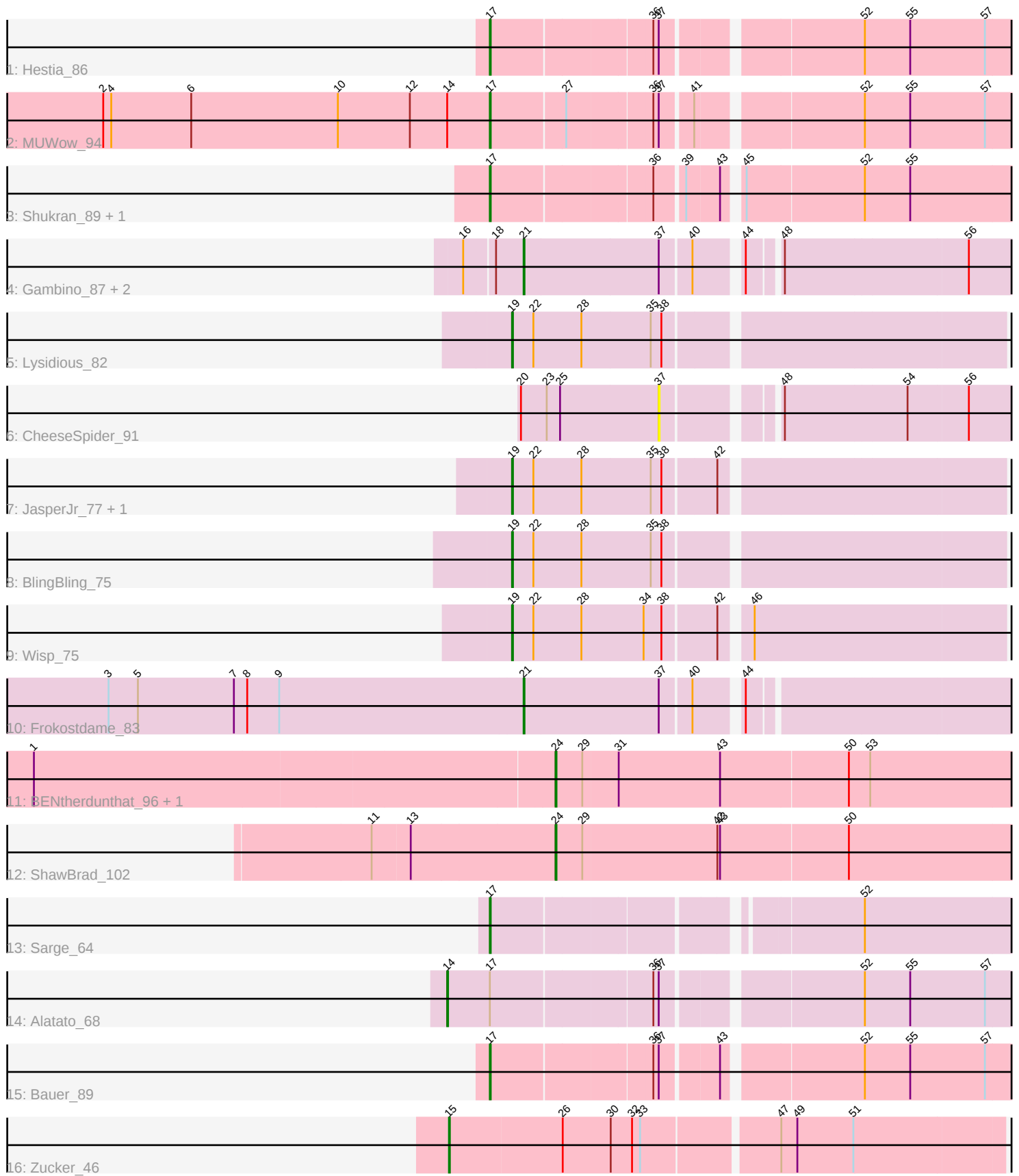


Pham 331243



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 331243 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331243 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hestia_86
- Track 2 : MUWow_94
- Track 3 : Shukran_89, Ding_86
- Track 4 : Gambino_87, Azula_85, MissRona_85
- Track 5 : Lysidious_82
- Track 6 : CheeseSpider_91
- Track 7 : JasperJr_77, Guacamole_77
- Track 8 : BlingBling_75
- Track 9 : Wisp_75
- Track 10 : Frokostdame_83
- Track 11 : BENtherdunthat_96, CheeseTouch_104
- Track 12 : ShawBrad_102
- Track 13 : Sarge_64
- Track 14 : Alatato_68
- Track 15 : Bauer_89
- Track 16 : Zucker_46

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

The start number called the most often in the published annotations is 17, it was called in 6 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bauer_89, Ding_86, Hestia_86, MUWow_94, Sarge_64, Shukran_89,

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

- Alatato_68,

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

- Azula_85, BENtherdunthat_96, BlingBling_75, CheeseSpider_91, CheeseTouch_104, Frokostdame_83, Gambino_87, Guacamole_77, JasperJr_77, Lysidious_82, MissRona_85, ShawBrad_102, Wisp_75, Zucker_46,

Summary by start number:

Start 14:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Alatato_68 (FB),

Start 15:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zucker_46 (FN),

Start 17:

- Found in 7 of 21 (33.3%) of genes in pham
- Manual Annotations of this start: 6 of 20
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bauer_89 (FN), Ding_86 (AY), Hestia_86 (AY), MUWow_94 (AY), Sarge_64 (FB), Shukran_89 (AY),

Start 19:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlingBling_75 (CV), Guacamole_77 (CV), JasperJr_77 (CV), Lysidious_82 (CV), Wisp_75 (CV),

Start 21:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 4 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Azula_85 (CV), Frokostdame_83 (CV), Gambino_87 (CV), MissRona_85 (CV),

Start 24:

- Found in 3 of 21 (14.3%) of genes in pham
- Manual Annotations of this start: 3 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENTherdunthat_96 (DN1), CheeseTouch_104 (DN1), ShawBrad_102 (DN1),

Start 37:

- Found in 9 of 21 (42.9%) of genes in pham
- No Manual Annotations of this start.
- Called 11.1% of time when present
- Phage (with cluster) where this start called: CheeseSpider_91 (CV),

Summary by clusters:

There are 5 clusters represented in this pham: AY, FB, DN1, CV, FN,

Info for manual annotations of cluster AY:

- Start number 17 was manually annotated 4 times for cluster AY.

Info for manual annotations of cluster CV:

- Start number 19 was manually annotated 5 times for cluster CV.
- Start number 21 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster DN1:

- Start number 24 was manually annotated 3 times for cluster DN1.

Info for manual annotations of cluster FB:

- Start number 14 was manually annotated 1 time for cluster FB.
- Start number 17 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FN:

- Start number 15 was manually annotated 1 time for cluster FN.
- Start number 17 was manually annotated 1 time for cluster FN.

Gene Information:

Gene: Alatato_68 Start: 37755, Stop: 38360, Start Num: 14

Candidate Starts for Alatato_68:

(Start: 14 @37755 has 1 MA's), (Start: 17 @37803 has 6 MA's), (36, 37974), (37, 37980), (52, 38184), (55, 38235), (57, 38319),

Gene: Azula_85 Start: 52425, Stop: 52931, Start Num: 21

Candidate Starts for Azula_85:

(16, 52362), (18, 52395), (Start: 21 @52425 has 4 MA's), (37, 52572), (40, 52605), (44, 52650), (48, 52680), (56, 52881),

Gene: BENtherdunthat_96 Start: 51490, Stop: 52080, Start Num: 24

Candidate Starts for BENtherdunthat_96:

(1, 50917), (Start: 24 @51490 has 3 MA's), (29, 51520), (31, 51559), (43, 51673), (50, 51814), (53, 51838),

Gene: Bauer_89 Start: 47543, Stop: 48100, Start Num: 17

Candidate Starts for Bauer_89:

(Start: 17 @47543 has 6 MA's), (36, 47714), (37, 47720), (43, 47780), (52, 47924), (55, 47975), (57, 48059),

Gene: BlingBling_75 Start: 47632, Stop: 48156, Start Num: 19

Candidate Starts for BlingBling_75:

(Start: 19 @47632 has 5 MA's), (22, 47656), (28, 47710), (35, 47785), (38, 47797),

Gene: CheeseSpider_91 Start: 52360, Stop: 52719, Start Num: 37

Candidate Starts for CheeseSpider_91:

(20, 52210), (23, 52237), (25, 52252), (37, 52360), (48, 52468), (54, 52603), (56, 52669),

Gene: CheeseTouch_104 Start: 50603, Stop: 51193, Start Num: 24

Candidate Starts for CheeseTouch_104:

(1, 50030), (Start: 24 @50603 has 3 MA's), (29, 50633), (31, 50672), (43, 50786), (50, 50927), (53, 50951),

Gene: Ding_86 Start: 50793, Stop: 51350, Start Num: 17

Candidate Starts for Ding_86:

(Start: 17 @50793 has 6 MA's), (36, 50964), (39, 50994), (43, 51030), (45, 51045), (52, 51174), (55, 51225),

Gene: Frokostdame_83 Start: 51333, Stop: 51839, Start Num: 21

Candidate Starts for Frokostdame_83:

(3, 50868), (5, 50901), (7, 51009), (8, 51024), (9, 51060), (Start: 21 @51333 has 4 MA's), (37, 51480), (40, 51513), (44, 51558),

Gene: Gambino_87 Start: 52425, Stop: 52931, Start Num: 21

Candidate Starts for Gambino_87:

(16, 52362), (18, 52395), (Start: 21 @52425 has 4 MA's), (37, 52572), (40, 52605), (44, 52650), (48, 52680), (56, 52881),

Gene: Guacamole_77 Start: 48781, Stop: 49305, Start Num: 19

Candidate Starts for Guacamole_77:

(Start: 19 @48781 has 5 MA's), (22, 48805), (28, 48859), (35, 48934), (38, 48946), (42, 49003),

Gene: Hestia_86 Start: 48560, Stop: 49117, Start Num: 17

Candidate Starts for Hestia_86:

(Start: 17 @48560 has 6 MA's), (36, 48731), (37, 48737), (52, 48941), (55, 48992), (57, 49076),

Gene: JasperJr_77 Start: 48781, Stop: 49305, Start Num: 19

Candidate Starts for JasperJr_77:

(Start: 19 @48781 has 5 MA's), (22, 48805), (28, 48859), (35, 48934), (38, 48946), (42, 49003),

Gene: Lysidious_82 Start: 49840, Stop: 50364, Start Num: 19

Candidate Starts for Lysidious_82:

(Start: 19 @49840 has 5 MA's), (22, 49864), (28, 49918), (35, 49993), (38, 50005),

Gene: MUWow_94 Start: 52065, Stop: 52622, Start Num: 17

Candidate Starts for MUWow_94:

(2, 51630), (4, 51639), (6, 51729), (10, 51894), (12, 51975), (Start: 14 @52017 has 1 MA's), (Start: 17 @52065 has 6 MA's), (27, 52146), (36, 52236), (37, 52242), (41, 52275), (52, 52446), (55, 52497), (57, 52581),

Gene: MissRona_85 Start: 52426, Stop: 52932, Start Num: 21

Candidate Starts for MissRona_85:

(16, 52363), (18, 52396), (Start: 21 @52426 has 4 MA's), (37, 52573), (40, 52606), (44, 52651), (48, 52681), (56, 52882),

Gene: Sarge_64 Start: 35084, Stop: 35632, Start Num: 17

Candidate Starts for Sarge_64:

(Start: 17 @35084 has 6 MA's), (52, 35456),

Gene: ShawBrad_102 Start: 51959, Stop: 52549, Start Num: 24

Candidate Starts for ShawBrad_102:

(11, 51758), (13, 51800), (Start: 24 @51959 has 3 MA's), (29, 51989), (42, 52139), (43, 52142), (50, 52283),

Gene: Shukran_89 Start: 49141, Stop: 49698, Start Num: 17

Candidate Starts for Shukran_89:

(Start: 17 @49141 has 6 MA's), (36, 49312), (39, 49342), (43, 49378), (45, 49393), (52, 49522), (55, 49573),

Gene: Wisp_75 Start: 48505, Stop: 49029, Start Num: 19

Candidate Starts for Wisp_75:

(Start: 19 @48505 has 5 MA's), (22, 48529), (28, 48583), (34, 48652), (38, 48670), (42, 48727), (46, 48754),

Gene: Zucker_46 Start: 31050, Stop: 31652, Start Num: 15

Candidate Starts for Zucker_46:

(Start: 15 @31050 has 1 MA's), (26, 31176), (30, 31230), (32, 31254), (33, 31263), (47, 31407), (49, 31425), (51, 31488),