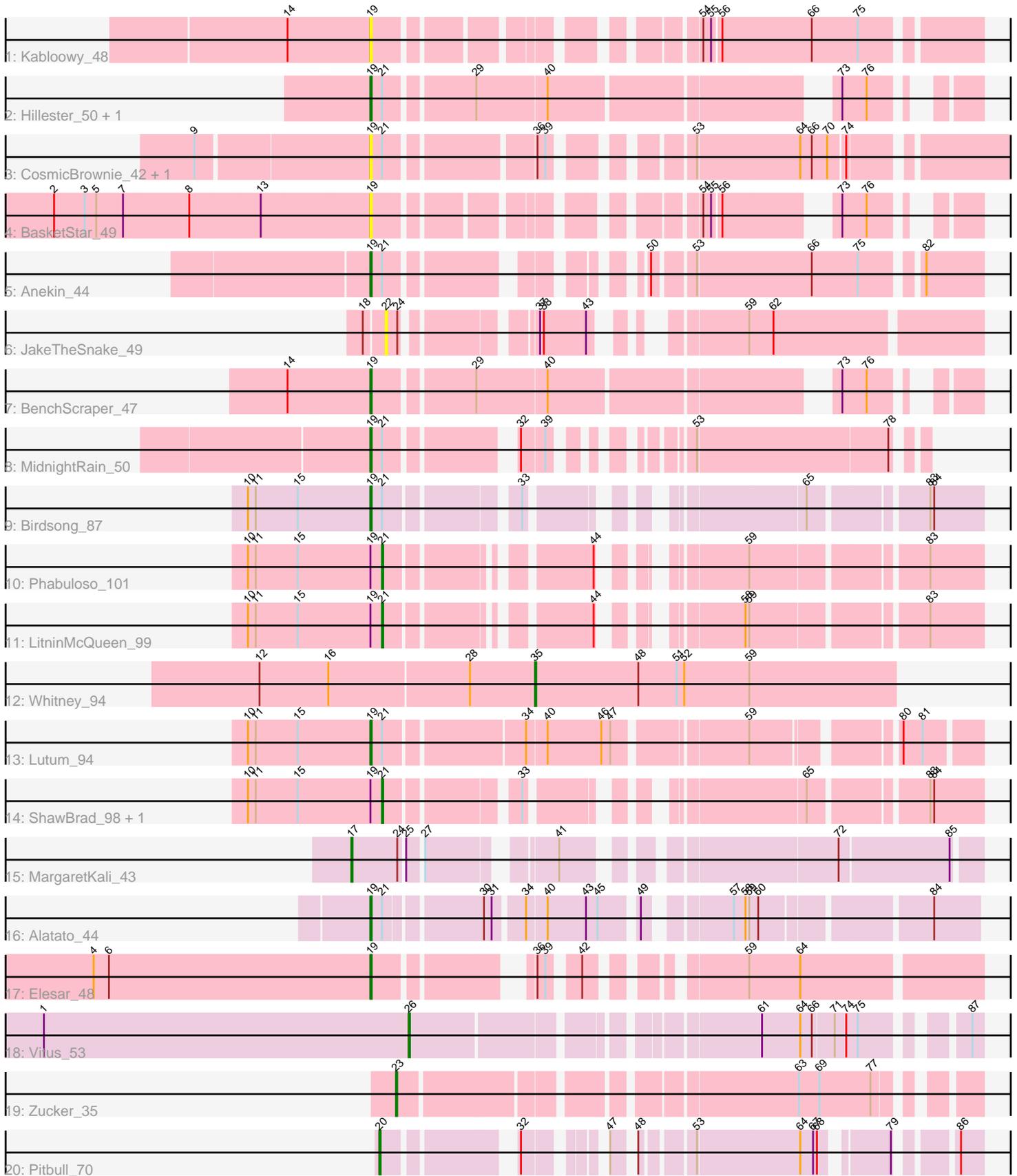


Pham 291517



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 291517 Report

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

Pham number 291517 has 23 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Kabloowy_48
- Track 2 : Hillester_50, RadFad_50
- Track 3 : CosmicBrownie_42, GumGum_45
- Track 4 : BasketStar_49
- Track 5 : Anekin_44
- Track 6 : JakeTheSnake_49
- Track 7 : BenchScraper_47
- Track 8 : MidnightRain_50
- Track 9 : Birdsong_87
- Track 10 : Phabuloso_101
- Track 11 : LitninMcQueen_99
- Track 12 : Whitney_94
- Track 13 : Lutum_94
- Track 14 : ShawBrad_98, Asapag_87
- Track 15 : MargaretKali_43
- Track 16 : Alatato_44
- Track 17 : Elesar_48
- Track 18 : Vitus_53
- Track 19 : Zucker_35
- Track 20 : Pitbull_70

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

The start number called the most often in the published annotations is 19, it was called in 9 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alatato_44, Anekin_44, BasketStar_49, BenchScraper_47, Birdsong_87, CosmicBrownie_42, Elesar_48, GumGum_45, Hillester_50, Kabloowy_48, Lutum_94, MidnightRain_50, RadFad_50,

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

- Asapag_87, LitninMcQueen_99, Phabuloso_101, ShawBrad_98,

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

- JakeTheSnake_49, MargaretKali_43, Pitbull_70, Vitus_53, Whitney_94, Zucker_35,

Summary by start number:

Start 17:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MargaretKali_43 (FB),

Start 19:

- Found in 17 of 23 (73.9%) of genes in pham
- Manual Annotations of this start: 9 of 17
- Called 76.5% of time when present
- Phage (with cluster) where this start called: Alatato_44 (FB), Anekin_44 (AY), BasketStar_49 (AY), BenchScraper_47 (AY), Birdsong_87 (DN), CosmicBrownie_42 (AY), Elesar_48 (FF), GumGum_45 (AY), Hillester_50 (AY), Kabloowy_48 (AY), Lutum_94 (DN1), MidnightRain_50 (AY), RadFad_50 (AY),

Start 20:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull_70 (FQ),

Start 21:

- Found in 13 of 23 (56.5%) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 30.8% of time when present
- Phage (with cluster) where this start called: Asapag_87 (DN1), LitninMcQueen_99 (DN1), Phabuloso_101 (DN1), ShawBrad_98 (DN1),

Start 22:

- Found in 1 of 23 (4.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JakeTheSnake_49 (AY),

Start 23:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zucker_35 (FN),

Start 26:

- Found in 1 of 23 (4.3%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Vitus_53 (FL),

Start 35:

- Found in 1 of 23 (4.3%) of genes in pham

- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Whitney_94 (DN1),

Summary by clusters:

There are 8 clusters represented in this pham: DN, FQ, FB, DN1, FF, AY, FL, FN,

Info for manual annotations of cluster AY:

- Start number 19 was manually annotated 5 times for cluster AY.

Info for manual annotations of cluster DN:

- Start number 19 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 19 was manually annotated 1 time for cluster DN1.
- Start number 21 was manually annotated 3 times for cluster DN1.
- Start number 35 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster FB:

- Start number 17 was manually annotated 1 time for cluster FB.
- Start number 19 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:

- Start number 19 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FL:

- Start number 26 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:

- Start number 23 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FQ:

- Start number 20 was manually annotated 1 time for cluster FQ.

Gene Information:

Gene: Alatato_44 Start: 28004, Stop: 28411, Start Num: 19

Candidate Starts for Alatato_44:

(Start: 19 @28004 has 9 MA's), (Start: 21 @28013 has 3 MA's), (30, 28079), (31, 28085), (34, 28106), (40, 28121), (43, 28151), (45, 28160), (49, 28184), (57, 28238), (58, 28247), (59, 28250), (60, 28256), (84, 28376),

Gene: Anekin_44 Start: 29811, Stop: 30191, Start Num: 19

Candidate Starts for Anekin_44:

(Start: 19 @29811 has 9 MA's), (Start: 21 @29820 has 3 MA's), (50, 29958), (53, 29985), (66, 30072), (75, 30108), (82, 30147),

Gene: Asapag_87 Start: 50042, Stop: 50416, Start Num: 21

Candidate Starts for Asapag_87:

(10, 49937), (11, 49943), (15, 49976), (Start: 19 @50033 has 9 MA's), (Start: 21 @50042 has 3 MA's), (33, 50129), (65, 50294), (83, 50375), (84, 50378),

Gene: BasketStar_49 Start: 30508, Stop: 30852, Start Num: 19

Candidate Starts for BasketStar_49:

(2, 30265), (3, 30289), (5, 30298), (7, 30319), (8, 30370), (13, 30424), (Start: 19 @30508 has 9 MA's), (54, 30697), (55, 30703), (56, 30709), (73, 30778), (76, 30796),

Gene: BenchScraper_47 Start: 29609, Stop: 30001, Start Num: 19

Candidate Starts for BenchScraper_47:

(14, 29546), (Start: 19 @29609 has 9 MA's), (29, 29678), (40, 29732), (73, 29927), (76, 29945),

Gene: Birdsong_87 Start: 49769, Stop: 50152, Start Num: 19

Candidate Starts for Birdsong_87:

(10, 49673), (11, 49679), (15, 49712), (Start: 19 @49769 has 9 MA's), (Start: 21 @49778 has 3 MA's), (33, 49865), (65, 50030), (83, 50111), (84, 50114),

Gene: CosmicBrownie_42 Start: 28661, Stop: 29080, Start Num: 19

Candidate Starts for CosmicBrownie_42:

(9, 28532), (Start: 19 @28661 has 9 MA's), (Start: 21 @28670 has 3 MA's), (36, 28769), (39, 28775), (53, 28853), (64, 28931), (66, 28940), (70, 28952), (74, 28964),

Gene: Elesar_48 Start: 36967, Stop: 37350, Start Num: 19

Candidate Starts for Elesar_48:

(4, 36751), (6, 36763), (Start: 19 @36967 has 9 MA's), (36, 37060), (39, 37066), (42, 37084), (59, 37177), (64, 37216),

Gene: GumGum_45 Start: 29081, Stop: 29500, Start Num: 19

Candidate Starts for GumGum_45:

(9, 28952), (Start: 19 @29081 has 9 MA's), (Start: 21 @29090 has 3 MA's), (36, 29189), (39, 29195), (53, 29273), (64, 29351), (66, 29360), (70, 29372), (74, 29384),

Gene: Hillester_50 Start: 30882, Stop: 31274, Start Num: 19

Candidate Starts for Hillester_50:

(Start: 19 @30882 has 9 MA's), (Start: 21 @30891 has 3 MA's), (29, 30951), (40, 31005), (73, 31200), (76, 31218),

Gene: JakeTheSnake_49 Start: 30813, Stop: 31190, Start Num: 22

Candidate Starts for JakeTheSnake_49:

(18, 30798), (22, 30813), (24, 30822), (37, 30903), (38, 30906), (43, 30939), (59, 31017), (62, 31035),

Gene: Kabloowy_48 Start: 30785, Stop: 31174, Start Num: 19

Candidate Starts for Kabloowy_48:

(14, 30722), (Start: 19 @30785 has 9 MA's), (54, 30974), (55, 30980), (56, 30986), (66, 31055), (75, 31091),

Gene: LitninMcQueen_99 Start: 52545, Stop: 52913, Start Num: 21

Candidate Starts for LitninMcQueen_99:

(10, 52440), (11, 52446), (15, 52479), (Start: 19 @52536 has 9 MA's), (Start: 21 @52545 has 3 MA's), (44, 52674), (58, 52746), (59, 52749), (83, 52872),

Gene: Lutum_94 Start: 50678, Stop: 51094, Start Num: 19

Candidate Starts for Lutum_94:

(10, 50582), (11, 50588), (15, 50621), (Start: 19 @50678 has 9 MA's), (Start: 21 @50687 has 3 MA's), (34, 50786), (40, 50801), (46, 50843), (47, 50849), (59, 50942), (80, 51038), (81, 51053),

Gene: MargaretKali_43 Start: 27891, Stop: 28301, Start Num: 17

Candidate Starts for MargaretKali_43:

(Start: 17 @27891 has 1 MA's), (24, 27927), (25, 27930), (27, 27939), (41, 28020), (72, 28197), (85, 28281),

Gene: MidnightRain_50 Start: 31295, Stop: 31621, Start Num: 19

Candidate Starts for MidnightRain_50:

(Start: 19 @31295 has 9 MA's), (Start: 21 @31304 has 3 MA's), (32, 31382), (39, 31397), (53, 31460), (78, 31604),

Gene: Phabuloso_101 Start: 52179, Stop: 52547, Start Num: 21

Candidate Starts for Phabuloso_101:

(10, 52074), (11, 52080), (15, 52113), (Start: 19 @52170 has 9 MA's), (Start: 21 @52179 has 3 MA's), (44, 52308), (59, 52383), (83, 52506),

Gene: Pitbull_70 Start: 37588, Stop: 37938, Start Num: 20

Candidate Starts for Pitbull_70:

(Start: 20 @37588 has 1 MA's), (32, 37669), (47, 37711), (48, 37723), (53, 37756), (64, 37834), (67, 37843), (68, 37846), (79, 37888), (86, 37921),

Gene: RadFad_50 Start: 30882, Stop: 31274, Start Num: 19

Candidate Starts for RadFad_50:

(Start: 19 @30882 has 9 MA's), (Start: 21 @30891 has 3 MA's), (29, 30951), (40, 31005), (73, 31200), (76, 31218),

Gene: ShawBrad_98 Start: 50296, Stop: 50670, Start Num: 21

Candidate Starts for ShawBrad_98:

(10, 50191), (11, 50197), (15, 50230), (Start: 19 @50287 has 9 MA's), (Start: 21 @50296 has 3 MA's), (33, 50383), (65, 50548), (83, 50629), (84, 50632),

Gene: Vitus_53 Start: 37944, Stop: 38321, Start Num: 26

Candidate Starts for Vitus_53:

(1, 37659), (Start: 26 @37944 has 1 MA's), (61, 38178), (64, 38208), (66, 38217), (71, 38232), (74, 38241), (75, 38250), (87, 38313),

Gene: Whitney_94 Start: 52783, Stop: 53064, Start Num: 35

Candidate Starts for Whitney_94:

(12, 52570), (16, 52624), (28, 52732), (Start: 35 @52783 has 1 MA's), (48, 52864), (51, 52894), (52, 52900), (59, 52951),

Gene: Zucker_35 Start: 27460, Stop: 27846, Start Num: 23

Candidate Starts for Zucker_35:

(Start: 23 @27460 has 1 MA's), (63, 27733), (69, 27748), (77, 27787),