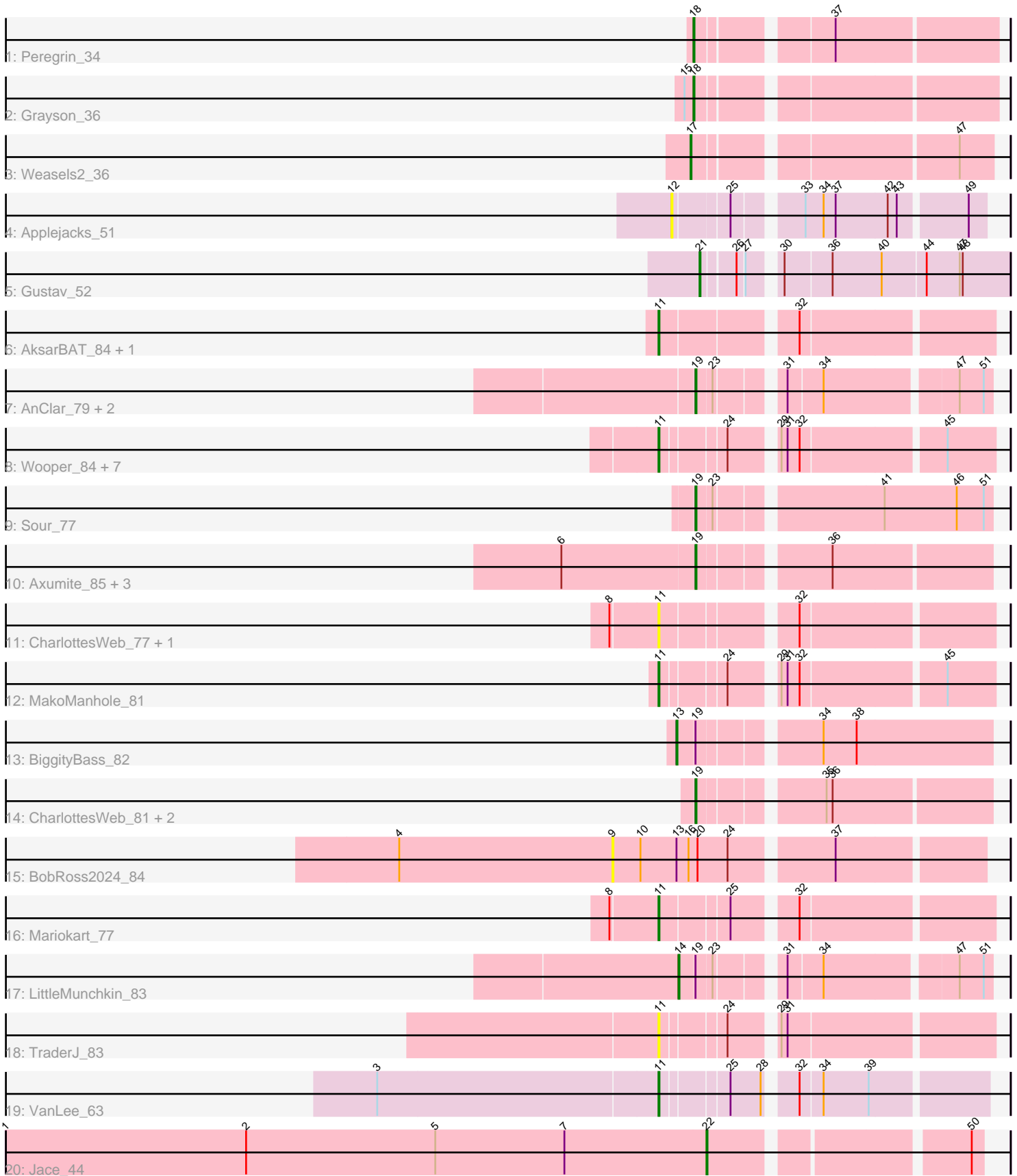


Pham 311818



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 311818 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311818 has 36 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Peregrin_34
- Track 2 : Grayson_36
- Track 3 : Weasels2_36
- Track 4 : Applejacks_51
- Track 5 : Gustav_52
- Track 6 : AksarBAT_84, NHagos_80
- Track 7 : AnClar_79, Sisko_82, Yago84_81
- Track 8 : Wooper_84, FelixTres_83, CaiB_83, AnarQue_84, Blackpen_81, CloverMinnie_82, Yeshua_83, MossRose_82
- Track 9 : Sour_77
- Track 10 : Axumite_85, Shatter_85, Fresco_85, Ligma_85
- Track 11 : CharlottesWeb_77, JellyBelly_76
- Track 12 : MakoManhole_81
- Track 13 : BiggityBass_82
- Track 14 : CharlottesWeb_81, Mariokart_81, JellyBelly_80
- Track 15 : BobRoss2024_84
- Track 16 : Mariokart_77
- Track 17 : LittleMunchkin_83
- Track 18 : TraderJ_83
- Track 19 : VanLee_63
- Track 20 : Jace_44

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

The start number called the most often in the published annotations is 11, it was called in 11 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AksarBAT_84, AnarQue_84, Blackpen_81, CaiB_83, CharlottesWeb_77, CloverMinnie_82, FelixTres_83, JellyBelly_76, MakoManhole_81, Mariokart_77, MossRose_82, NHagos_80, TraderJ_83, VanLee_63, Wooper_84, Yeshua_83,

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

-

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

• AnClar_79, Applejacks_51, Axumite_85, BiggityBass_82, BobRoss2024_84, CharlottesWeb_81, Fresco_85, Grayson_36, Gustav_52, Jace_44, JellyBelly_80, Ligma_85, LittleMunchkin_83, Mariokart_81, Peregrin_34, Shatter_85, Sisko_82, Sour_77, Weasels2_36, Yago84_81,

Summary by start number:

Start 9:

- Found in 1 of 36 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BobRoss2024_84 (DR),

Start 11:

- Found in 16 of 36 (44.4%) of genes in pham
- Manual Annotations of this start: 11 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AksarBAT_84 (DR), AnarQue_84 (DR), Blackpen_81 (DR), CaiB_83 (DR), CharlottesWeb_77 (DR), CloverMinnie_82 (DR), FelixTres_83 (DR), JellyBelly_76 (DR), MakoManhole_81 (DR), Mariokart_77 (DR), MossRose_82 (DR), NHagos_80 (DR), TraderJ_83 (DR), VanLee_63 (KA), Wooper_84 (DR), Yeshua_83 (DR),

Start 12:

- Found in 1 of 36 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_51 (CD),

Start 13:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 50.0% of time when present
- Phage (with cluster) where this start called: BiggityBass_82 (DR),

Start 14:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleMunchkin_83 (DR),

Start 17:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Weasels2_36 (CB),

Start 18:

- Found in 2 of 36 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Grayson_36 (CB), Peregrin_34 (CB),

Start 19:

- Found in 13 of 36 (36.1%) of genes in pham
- Manual Annotations of this start: 9 of 27
- Called 84.6% of time when present
- Phage (with cluster) where this start called: AnClar_79 (DR), Axumite_85 (DR), CharlottesWeb_81 (DR), Fresco_85 (DR), JellyBelly_80 (DR), Ligma_85 (DR), Mariokart_81 (DR), Shatter_85 (DR), Sisko_82 (DR), Sour_77 (DR), Yago84_81 (DR),

Start 21:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_52 (CD),

Start 22:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_44 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: CB, KA, DR, singleton, CD,

Info for manual annotations of cluster CB:

- Start number 17 was manually annotated 1 time for cluster CB.
- Start number 18 was manually annotated 2 times for cluster CB.

Info for manual annotations of cluster CD:

- Start number 21 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DR:

- Start number 11 was manually annotated 10 times for cluster DR.
- Start number 13 was manually annotated 1 time for cluster DR.
- Start number 14 was manually annotated 1 time for cluster DR.
- Start number 19 was manually annotated 9 times for cluster DR.

Info for manual annotations of cluster KA:

- Start number 11 was manually annotated 1 time for cluster KA.

Gene Information:

Gene: AksarBAT_84 Start: 60421, Stop: 60119, Start Num: 11

Candidate Starts for AksarBAT_84:

(Start: 11 @60421 has 11 MA's), (32, 60301),

Gene: AnClar_79 Start: 61333, Stop: 61076, Start Num: 19

Candidate Starts for AnClar_79:

(Start: 19 @61333 has 9 MA's), (23, 61318), (31, 61264), (34, 61231), (47, 61108), (51, 61084),

Gene: AnarQue_84 Start: 61315, Stop: 61019, Start Num: 11

Candidate Starts for AnarQue_84:

(Start: 11 @61315 has 11 MA's), (24, 61258), (29, 61219), (31, 61213), (32, 61201), (45, 61066),

Gene: Applejacks_51 Start: 36820, Stop: 36542, Start Num: 12

Candidate Starts for Applejacks_51:

(12, 36820), (25, 36769), (33, 36712), (34, 36694), (37, 36682), (42, 36631), (43, 36622), (49, 36559),

Gene: Axumite_85 Start: 61188, Stop: 60922, Start Num: 19

Candidate Starts for Axumite_85:

(6, 61320), (Start: 19 @61188 has 9 MA's), (36, 61074),

Gene: BiggityBass_82 Start: 62678, Stop: 62391, Start Num: 13

Candidate Starts for BiggityBass_82:

(Start: 13 @62678 has 1 MA's), (Start: 19 @62663 has 9 MA's), (34, 62558), (38, 62525),

Gene: Blackpen_81 Start: 59779, Stop: 59483, Start Num: 11

Candidate Starts for Blackpen_81:

(Start: 11 @59779 has 11 MA's), (24, 59722), (29, 59683), (31, 59677), (32, 59665), (45, 59530),

Gene: BobRoss2024_84 Start: 60453, Stop: 60106, Start Num: 9

Candidate Starts for BobRoss2024_84:

(4, 60666), (9, 60453), (10, 60426), (Start: 13 @60390 has 1 MA's), (16, 60378), (20, 60369), (24, 60339), (37, 60246),

Gene: CaiB_83 Start: 61113, Stop: 60817, Start Num: 11

Candidate Starts for CaiB_83:

(Start: 11 @61113 has 11 MA's), (24, 61056), (29, 61017), (31, 61011), (32, 60999), (45, 60864),

Gene: CharlottesWeb_77 Start: 58341, Stop: 58042, Start Num: 11

Candidate Starts for CharlottesWeb_77:

(8, 58386), (Start: 11 @58341 has 11 MA's), (32, 58224),

Gene: CharlottesWeb_81 Start: 59991, Stop: 59725, Start Num: 19

Candidate Starts for CharlottesWeb_81:

(Start: 19 @59991 has 9 MA's), (35, 59883), (36, 59877),

Gene: CloverMinnie_82 Start: 60591, Stop: 60295, Start Num: 11

Candidate Starts for CloverMinnie_82:

(Start: 11 @60591 has 11 MA's), (24, 60534), (29, 60495), (31, 60489), (32, 60477), (45, 60342),

Gene: FelixTres_83 Start: 60557, Stop: 60261, Start Num: 11

Candidate Starts for FelixTres_83:

(Start: 11 @60557 has 11 MA's), (24, 60500), (29, 60461), (31, 60455), (32, 60443), (45, 60308),

Gene: Fresco_85 Start: 61194, Stop: 60928, Start Num: 19

Candidate Starts for Fresco_85:

(6, 61326), (Start: 19 @61194 has 9 MA's), (36, 61080),

Gene: Grayson_36 Start: 10802, Stop: 10530, Start Num: 18

Candidate Starts for Grayson_36:

(15, 10811), (Start: 18 @10802 has 2 MA's),

Gene: Gustav_52 Start: 37684, Stop: 37406, Start Num: 21

Candidate Starts for Gustav_52:

(Start: 21 @37684 has 1 MA's), (26, 37654), (27, 37648), (30, 37624), (36, 37579), (40, 37531), (44, 37489), (47, 37456), (48, 37453),

Gene: Jace_44 Start: 31248, Stop: 31490, Start Num: 22

Candidate Starts for Jace_44:

(1, 30549), (2, 30789), (5, 30978), (7, 31107), (Start: 22 @31248 has 1 MA's), (50, 31479),

Gene: JellyBelly_76 Start: 58350, Stop: 58051, Start Num: 11

Candidate Starts for JellyBelly_76:

(8, 58395), (Start: 11 @58350 has 11 MA's), (32, 58233),

Gene: JellyBelly_80 Start: 60000, Stop: 59734, Start Num: 19

Candidate Starts for JellyBelly_80:

(Start: 19 @60000 has 9 MA's), (35, 59892), (36, 59886),

Gene: Ligma_85 Start: 61188, Stop: 60922, Start Num: 19

Candidate Starts for Ligma_85:

(6, 61320), (Start: 19 @61188 has 9 MA's), (36, 61074),

Gene: LittleMunchkin_83 Start: 62693, Stop: 62421, Start Num: 14

Candidate Starts for LittleMunchkin_83:

(Start: 14 @62693 has 1 MA's), (Start: 19 @62678 has 9 MA's), (23, 62663), (31, 62609), (34, 62576), (47, 62453), (51, 62429),

Gene: MakoManhole_81 Start: 61086, Stop: 60790, Start Num: 11

Candidate Starts for MakoManhole_81:

(Start: 11 @61086 has 11 MA's), (24, 61029), (29, 60990), (31, 60984), (32, 60972), (45, 60837),

Gene: Mariokart_77 Start: 58579, Stop: 58280, Start Num: 11

Candidate Starts for Mariokart_77:

(8, 58624), (Start: 11 @58579 has 11 MA's), (25, 58516), (32, 58462),

Gene: Mariokart_81 Start: 60229, Stop: 59963, Start Num: 19

Candidate Starts for Mariokart_81:

(Start: 19 @60229 has 9 MA's), (35, 60121), (36, 60115),

Gene: MossRose_82 Start: 60565, Stop: 60269, Start Num: 11

Candidate Starts for MossRose_82:

(Start: 11 @60565 has 11 MA's), (24, 60508), (29, 60469), (31, 60463), (32, 60451), (45, 60316),

Gene: NHagos_80 Start: 59095, Stop: 58793, Start Num: 11

Candidate Starts for NHagos_80:

(Start: 11 @59095 has 11 MA's), (32, 58975),

Gene: Peregrin_34 Start: 10116, Stop: 9844, Start Num: 18

Candidate Starts for Peregrin_34:

(Start: 18 @10116 has 2 MA's), (37, 9999),

Gene: Shatter_85 Start: 61188, Stop: 60922, Start Num: 19

Candidate Starts for Shatter_85:
(6, 61320), (Start: 19 @61188 has 9 MA's), (36, 61074),

Gene: Sisko_82 Start: 61674, Stop: 61402, Start Num: 19
Candidate Starts for Sisko_82:
(Start: 19 @61674 has 9 MA's), (23, 61659), (31, 61590), (34, 61557), (47, 61434), (51, 61410),

Gene: Sour_77 Start: 61148, Stop: 60876, Start Num: 19
Candidate Starts for Sour_77:
(Start: 19 @61148 has 9 MA's), (23, 61133), (41, 60983), (46, 60911), (51, 60884),

Gene: TraderJ_83 Start: 60657, Stop: 60361, Start Num: 11
Candidate Starts for TraderJ_83:
(Start: 11 @60657 has 11 MA's), (24, 60600), (29, 60561), (31, 60555),

Gene: VanLee_63 Start: 40991, Stop: 41281, Start Num: 11
Candidate Starts for VanLee_63:
(3, 40715), (Start: 11 @40991 has 11 MA's), (25, 41051), (28, 41081), (32, 41105), (34, 41126), (39, 41171),

Gene: Weasels2_36 Start: 11088, Stop: 10819, Start Num: 17
Candidate Starts for Weasels2_36:
(Start: 17 @11088 has 1 MA's), (47, 10851),

Gene: Wooper_84 Start: 60648, Stop: 60352, Start Num: 11
Candidate Starts for Wooper_84:
(Start: 11 @60648 has 11 MA's), (24, 60591), (29, 60552), (31, 60546), (32, 60534), (45, 60399),

Gene: Yago84_81 Start: 61367, Stop: 61110, Start Num: 19
Candidate Starts for Yago84_81:
(Start: 19 @61367 has 9 MA's), (23, 61352), (31, 61298), (34, 61265), (47, 61142), (51, 61118),

Gene: Yeshua_83 Start: 60624, Stop: 60328, Start Num: 11
Candidate Starts for Yeshua_83:
(Start: 11 @60624 has 11 MA's), (24, 60567), (29, 60528), (31, 60522), (32, 60510), (45, 60375),