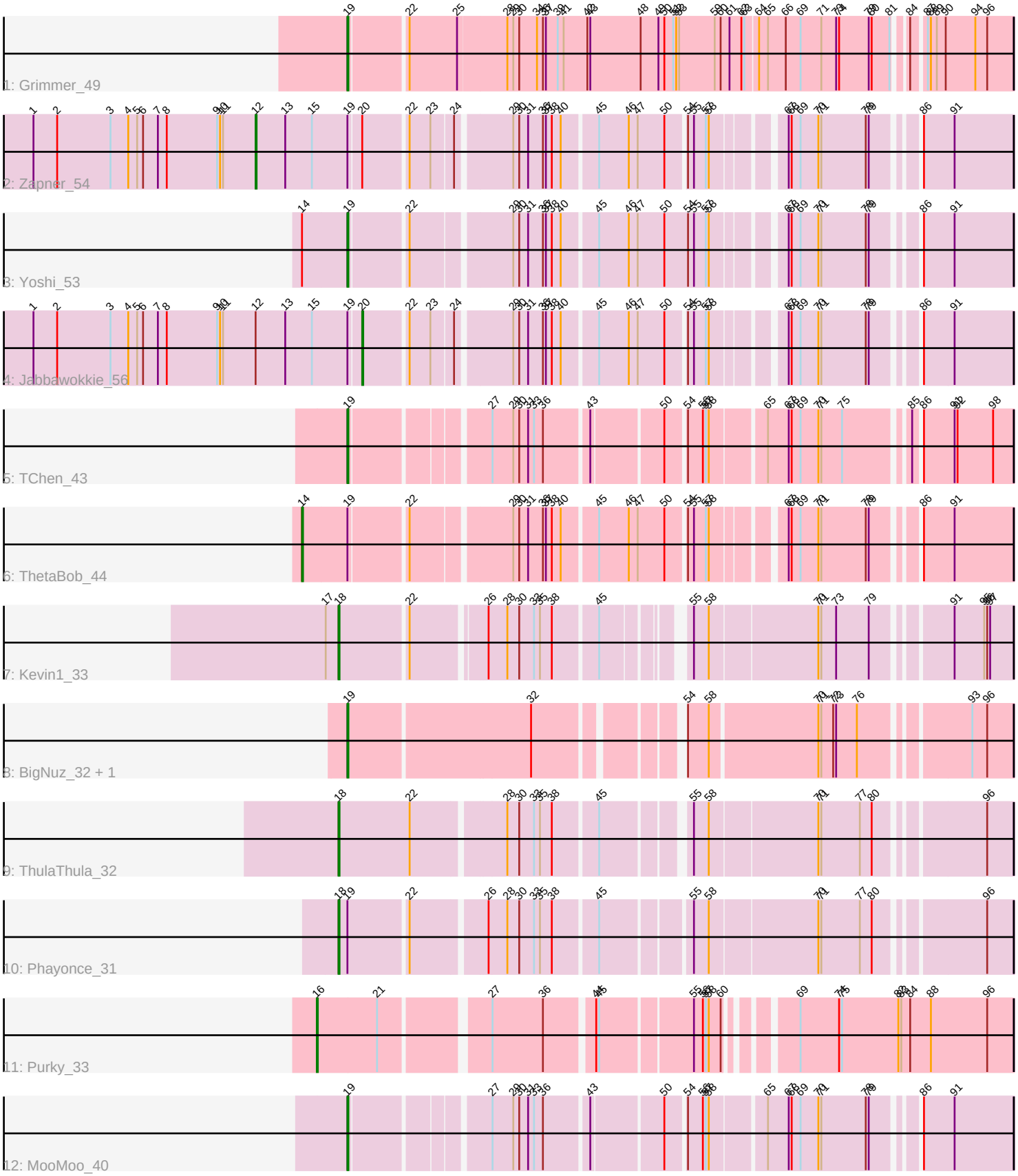
Pham 346309


1: Grimmer_49
2: Zapner_54
3: Yoshi_53
4: Jabbawokkie_56
5: TChen_43
6: ThetaBob_44
7: Kevin1_33
8: BigNuz_32 + 1
9: ThulaThula_32
10: Phayonce_31
11: Purky_33
12: MooMoo_40

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 346309 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346309 has 13 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Grimmer_49
• Track 2 : Zapner_54
• Track 3 : Yoshi_53
• Track 4 : Jabbawokkie_56
• Track 5 : TChen_43
• Track 6 : ThetaBob_44
• Track 7 : Kevin1_33
• Track 8 : BigNuz_32, Nazo_33
• Track 9 : ThulaThula_32
• Track 10 : Phayonce_31
• Track 11 : Purky_33
• Track 12 : MooMoo_40

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 6 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BigNuz_32, Grimmer_49, MooMoo_40, Nazo_33, TChen_43, Yoshi_53,

Genes that have the "Most Annotated" start but do not call it:
• Jabbawokkie_56, Phayonce_31, ThetaBob_44, Zapner_54,

Genes that do not have the "Most Annotated" start:
• Kevin1_33, Purky_33, ThulaThula_32,

Summary by start number:

Start 12:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Zapner_54 (F2),

Start 14:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: ThetaBob_44 (F4),

Start 16:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Purky_33 (P6),

Start 18:
• Found in 3 of 13 (23.1%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kevin1_33 (N), Phayonce_31 (P5), ThulaThula_32 (P5),

Start 19:
• Found in 10 of 13 (76.9%) of genes in pham
• Manual Annotations of this start: 6 of 13
• Called 60.0% of time when present
• Phage (with cluster) where this start called: BigNuz_32 (P4), Grimmer_49 (F1), MooMoo_40 (singleton), Nazo_33 (P4), TChen_43 (F4), Yoshi_53 (F2),

Start 20:
• Found in 2 of 13 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Jabbawokkie_56 (F2),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F2, P6, P4, P5, singleton, N, F4,

Info for manual annotations of cluster F1:
•Start number 19 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster F2:
•Start number 12 was manually annotated 1 time for cluster F2.
•Start number 19 was manually annotated 1 time for cluster F2.
•Start number 20 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:
•Start number 14 was manually annotated 1 time for cluster F4.
•Start number 19 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster N:
•Start number 18 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P4:

•Start number 19 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 18 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:
•Start number 16 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: BigNuz_32 Start: 27991, Stop: 27389, Start Num: 19
Candidate Starts for BigNuz_32:
(Start: 19 @27991 has 6 MA's), (32, 27814), (54, 27691), (58, 27670), (70, 27565), (71, 27562), (72, 27550), (73, 27547), (76, 27526), (93, 27430), (96, 27415),

Gene: Grimmer_49 Start: 33836, Stop: 33195, Start Num: 19
Candidate Starts for Grimmer_49:
(Start: 19 @33836 has 6 MA's), (22, 33782), (25, 33734), (28, 33686), (29, 33680), (30, 33674), (34, 33656), (36, 33650), (37, 33647), (39, 33635), (41, 33629), (42, 33605), (43, 33602), (48, 33551), (49, 33533), (50, 33527), (51, 33518), (52, 33515), (53, 33512), (59, 33476), (60, 33470), (61, 33461), (62, 33449), (63, 33446), (64, 33434), (65, 33425), (66, 33407), (69, 33392), (71, 33371), (73, 33356), (74, 33353), (79, 33323), (80, 33320), (81, 33302), (84, 33293), (87, 33281), (88, 33278), (89, 33272), (90, 33263), (94, 33233), (96, 33221),

Gene: Jabbawokkie_56 Start: 33400, Stop: 32813, Start Num: 20
Candidate Starts for Jabbawokkie_56:
(1, 33730), (2, 33706), (3, 33652), (4, 33634), (5, 33625), (6, 33619), (7, 33604), (8, 33595), (9, 33544), (10, 33541), (11, 33538), (Start: 12 @33505 has 1 MA's), (13, 33475), (15, 33448), (Start: 19 @33412 has 6 MA's), (Start: 20 @33400 has 1 MA's), (22, 33358), (23, 33337), (24, 33316), (29, 33265), (30, 33259), (31, 33250), (36, 33235), (37, 33232), (38, 33226), (40, 33217), (45, 33184), (46, 33154), (47, 33145), (50, 33118), (54, 33100), (55, 33094), (57, 33082), (58, 33079), (67, 33019), (68, 33016), (69, 33007), (70, 32989), (71, 32986), (78, 32941), (79, 32938), (86, 32902), (91, 32872),

Gene: Kevin1_33 Start: 27234, Stop: 26635, Start Num: 18
Candidate Starts for Kevin1_33:
(17, 27246), (Start: 18 @27234 has 3 MA's), (22, 27168), (26, 27102), (28, 27084), (30, 27072), (33, 27057), (35, 27051), (38, 27039), (45, 26997), (55, 26931), (58, 26916), (70, 26811), (71, 26808), (73, 26793), (79, 26760), (91, 26694), (95, 26664), (96, 26661), (97, 26658),

Gene: MooMoo_40 Start: 31651, Stop: 31052, Start Num: 19
Candidate Starts for MooMoo_40:
(Start: 19 @31651 has 6 MA's), (27, 31528), (29, 31507), (30, 31501), (31, 31492), (33, 31486), (36, 31477), (43, 31435), (50, 31369), (54, 31351), (56, 31336), (57, 31333), (58, 31330), (65, 31279), (67, 31258), (68, 31255), (69, 31246), (70, 31228), (71, 31225), (78, 31180), (79, 31177), (86, 31141), (91, 31111),

Gene: Nazo_33 Start: 27993, Stop: 27391, Start Num: 19
Candidate Starts for Nazo_33:
(Start: 19 @27993 has 6 MA's), (32, 27816), (54, 27693), (58, 27672), (70, 27567), (71, 27564), (72, 27552), (73, 27549), (76, 27528), (93, 27432), (96, 27417),

Gene: Phayonce_31 Start: 27923, Stop: 27306, Start Num: 18
Candidate Starts for Phayonce_31:
(Start: 18 @27923 has 3 MA's), (Start: 19 @27914 has 6 MA's), (22, 27857), (26, 27788), (28, 27770), (30, 27758), (33, 27743), (35, 27737), (38, 27725), (45, 27683), (55, 27602), (58, 27587), (70, 27482), (71, 27479), (77, 27440), (80, 27428), (96, 27332),

Gene: Purky_33 Start: 27836, Stop: 27198, Start Num: 16
Candidate Starts for Purky_33:
(Start: 16 @27836 has 1 MA's), (21, 27776), (27, 27677), (36, 27626), (44, 27581), (45, 27578), (55, 27491), (56, 27482), (57, 27479), (58, 27476), (60, 27464), (69, 27413), (74, 27374), (75, 27371), (82, 27314), (83, 27311), (84, 27302), (88, 27281), (96, 27224),

Gene: TChen_43 Start: 33320, Stop: 32721, Start Num: 19
Candidate Starts for TChen_43:
(Start: 19 @33320 has 6 MA's), (27, 33197), (29, 33176), (30, 33170), (31, 33161), (33, 33155), (36, 33146), (43, 33104), (50, 33038), (54, 33020), (56, 33005), (57, 33002), (58, 32999), (65, 32948), (67, 32927), (68, 32924), (69, 32915), (70, 32897), (71, 32894), (75, 32873), (85, 32816), (86, 32810), (91, 32780), (92, 32777), (98, 32741),

Gene: ThetaBob_44 Start: 32059, Stop: 31415, Start Num: 14
Candidate Starts for ThetaBob_44:
(Start: 14 @32059 has 1 MA's), (Start: 19 @32014 has 6 MA's), (22, 31960), (29, 31867), (30, 31861), (31, 31852), (36, 31837), (37, 31834), (38, 31828), (40, 31819), (45, 31786), (46, 31756), (47, 31747), (50, 31720), (54, 31702), (55, 31696), (57, 31684), (58, 31681), (67, 31621), (68, 31618), (69, 31609), (70, 31591), (71, 31588), (78, 31543), (79, 31540), (86, 31504), (91, 31474),

Gene: ThulaThula_32 Start: 27929, Stop: 27312, Start Num: 18
Candidate Starts for ThulaThula_32:
(Start: 18 @27929 has 3 MA's), (22, 27857), (28, 27770), (30, 27758), (33, 27743), (35, 27737), (38, 27725), (45, 27683), (55, 27608), (58, 27593), (70, 27488), (71, 27485), (77, 27446), (80, 27434), (96, 27338),

Gene: Yoshi_53 Start: 32912, Stop: 32307, Start Num: 19
Candidate Starts for Yoshi_53:
(Start: 14 @32957 has 1 MA's), (Start: 19 @32912 has 6 MA's), (22, 32858), (29, 32765), (30, 32759), (31, 32750), (36, 32735), (37, 32732), (38, 32726), (40, 32717), (45, 32684), (46, 32654), (47, 32645), (50, 32618), (54, 32594), (55, 32588), (57, 32576), (58, 32573), (67, 32513), (68, 32510), (69, 32501), (70, 32483), (71, 32480), (78, 32435), (79, 32432), (86, 32396), (91, 32366),

Gene: Zapner_54 Start: 33506, Stop: 32814, Start Num: 12
Candidate Starts for Zapner_54:
(1, 33731), (2, 33707), (3, 33653), (4, 33635), (5, 33626), (6, 33620), (7, 33605), (8, 33596), (9, 33545), (10, 33542), (11, 33539), (Start: 12 @33506 has 1 MA's), (13, 33476), (15, 33449), (Start: 19 @33413 has 6 MA's), (Start: 20 @33401 has 1 MA's), (22, 33359), (23, 33338), (24, 33317), (29, 33266), (30, 33260), (31, 33251), (36, 33236), (37, 33233), (38, 33227), (40, 33218), (45, 33185), (46, 33155), (47, 33146), (50, 33119), (54, 33101), (55, 33095), (57, 33083), (58, 33080), (67, 33020), (68, 33017), (69, 33008), (70, 32990), (71, 32987), (78, 32942), (79, 32939), (86, 32903), (91, 32873),