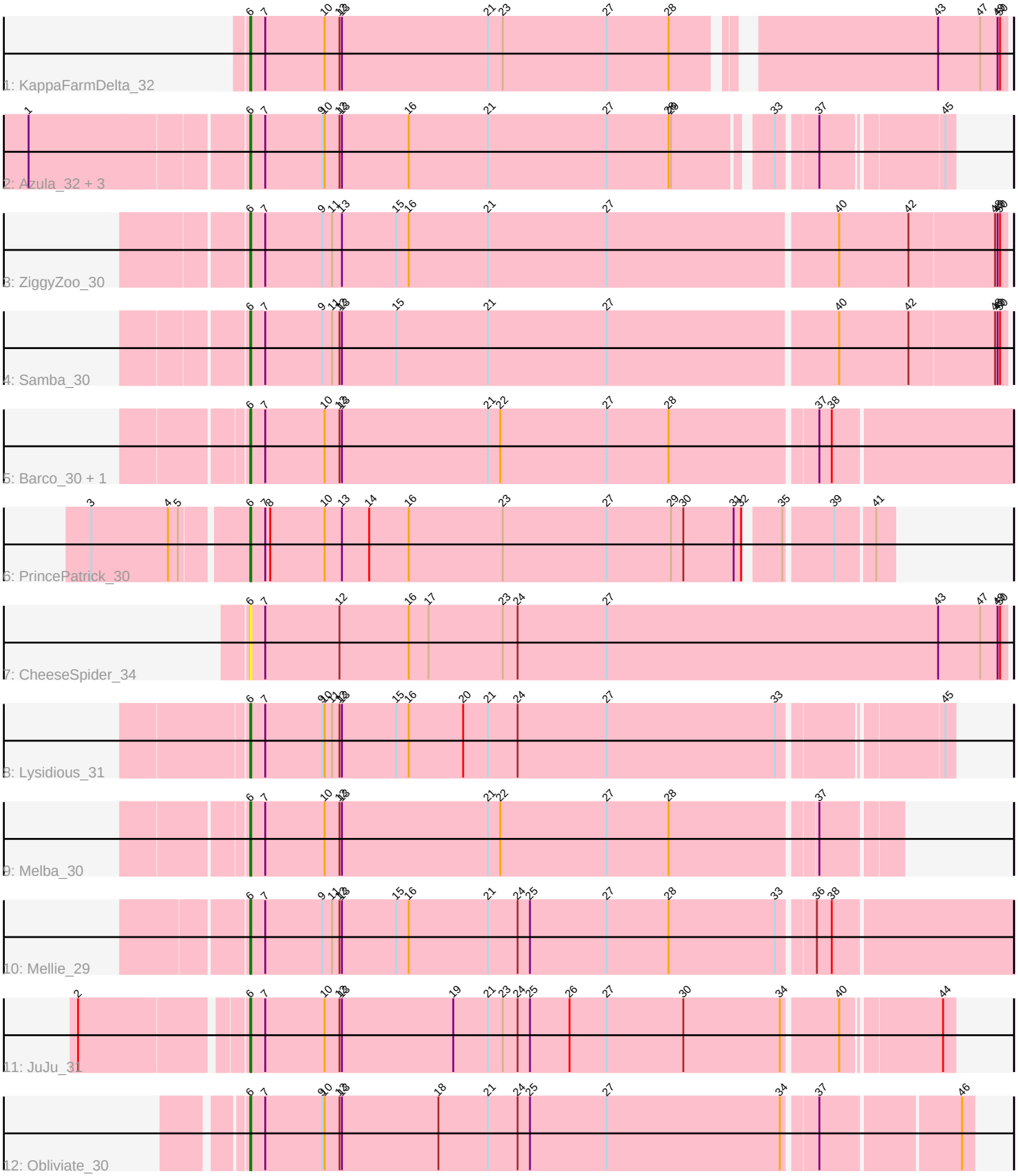
Pham 331353


1: KappaFarmDelta_32
2: Azula_32 + 3
3: ZiggyZoo_30
4: Samba_30
5: Barco_30 + 1
6: PrincePatrick_30
7: CheeseSpider_34
8: Lysidious_31
9: Melba_30
10: Mellie_29
11: JuJu_31
12: Obliviate_30

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 331353 Report

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

Pham number 331353 has 16 members, 1 are drafts.

Phages represented in each track:
• Track 1 : KappaFarmDelta_32
• Track 2 : Azula_32, Blueberry_32, MissRona_32, Gambino_32
• Track 3 : ZiggyZoo_30
• Track 4 : Samba_30
• Track 5 : Barco_30, Zilla_30
• Track 6 : PrincePatrick_30
• Track 7 : CheeseSpider_34
• Track 8 : Lysidious_31
• Track 9 : Melba_30
• Track 10 : Mellie_29
• Track 11 : JuJu_31
• Track 12 : Obliviate_30

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

The start number called the most often in the published annotations is 6, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Azula_32, Barco_30, Blueberry_32, CheeseSpider_34, Gambino_32, JuJu_31, KappaFarmDelta_32, Lysidious_31, Melba_30, Mellie_29, MissRona_32, Obliviate_30, PrincePatrick_30, Samba_30, ZiggyZoo_30, Zilla_30,

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

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

Summary by start number:

Start 6:
• Found in 16 of 16 (100.0%) of genes in pham
• Manual Annotations of this start: 15 of 15

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Azula_32 (CV), Barco_30 (CV), Blueberry_32 (CV), CheeseSpider_34 (CV), Gambino_32 (CV), JuJu_31 (CV), KappaFarmDelta_32 (CV), Lysidious_31 (CV), Melba_30 (CV), Mellie_29 (CV), MissRona_32 (CV), Obliviate_30 (CV), PrincePatrick_30 (CV), Samba_30 (CV), ZiggyZoo_30 (CV), Zilla_30 (CV),

Summary by clusters:

There is one cluster represented in this pham: CV

Info for manual annotations of cluster CV:
•Start number 6 was manually annotated 15 times for cluster CV.

Gene Information:

Gene: Azula_32 Start: 25537, Stop: 26340, Start Num: 6
Candidate Starts for Azula_32:
(1, 25285), (Start: 6 @25537 has 15 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (21, 25825), (27, 25969), (28, 26044), (29, 26047), (33, 26152), (37, 26194), (45, 26329),

Gene: Barco_30 Start: 25225, Stop: 26127, Start Num: 6
Candidate Starts for Barco_30:
(Start: 6 @25225 has 15 MA's), (7, 25243), (10, 25315), (12, 25333), (13, 25336), (21, 25513), (22, 25528), (27, 25657), (28, 25732), (37, 25903), (38, 25918),

Gene: Blueberry_32 Start: 25537, Stop: 26340, Start Num: 6
Candidate Starts for Blueberry_32:
(1, 25285), (Start: 6 @25537 has 15 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (21, 25825), (27, 25969), (28, 26044), (29, 26047), (33, 26152), (37, 26194), (45, 26329),

Gene: CheeseSpider_34 Start: 25161, Stop: 26078, Start Num: 6
Candidate Starts for CheeseSpider_34:
(Start: 6 @25161 has 15 MA's), (7, 25179), (12, 25269), (16, 25353), (17, 25377), (23, 25467), (24, 25485), (27, 25593), (43, 25995), (47, 26046), (49, 26067), (50, 26070),

Gene: Gambino_32 Start: 25537, Stop: 26340, Start Num: 6
Candidate Starts for Gambino_32:
(1, 25285), (Start: 6 @25537 has 15 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (21, 25825), (27, 25969), (28, 26044), (29, 26047), (33, 26152), (37, 26194), (45, 26329),

Gene: JuJu_31 Start: 25264, Stop: 26094, Start Num: 6
Candidate Starts for JuJu_31:
(2, 25078), (Start: 6 @25264 has 15 MA's), (7, 25282), (10, 25354), (12, 25372), (13, 25375), (19, 25510), (21, 25552), (23, 25570), (24, 25588), (25, 25603), (26, 25651), (27, 25696), (30, 25789), (34, 25906), (40, 25969), (44, 26080),

Gene: KappaFarmDelta_32 Start: 25086, Stop: 25958, Start Num: 6

Candidate Starts for KappaFarmDelta_32:
(Start: 6 @25086 has 15 MA's), (7, 25104), (10, 25176), (12, 25194), (13, 25197), (21, 25374), (23, 25392), (27, 25518), (28, 25593), (43, 25875), (47, 25926), (49, 25947), (50, 25950),

Gene: Lysidious_31 Start: 25797, Stop: 26621, Start Num: 6
Candidate Starts for Lysidious_31:
(Start: 6 @25797 has 15 MA's), (7, 25815), (9, 25884), (10, 25887), (11, 25896), (12, 25905), (13, 25908), (15, 25974), (16, 25989), (20, 26055), (21, 26085), (24, 26121), (27, 26229), (33, 26433), (45, 26610),

Gene: Melba_30 Start: 25225, Stop: 25989, Start Num: 6
Candidate Starts for Melba_30:
(Start: 6 @25225 has 15 MA's), (7, 25243), (10, 25315), (12, 25333), (13, 25336), (21, 25513), (22, 25528), (27, 25657), (28, 25732), (37, 25900),

Gene: Mellie_29 Start: 24992, Stop: 25894, Start Num: 6
Candidate Starts for Mellie_29:
(Start: 6 @24992 has 15 MA's), (7, 25010), (9, 25079), (11, 25091), (12, 25100), (13, 25103), (15, 25169), (16, 25184), (21, 25280), (24, 25316), (25, 25331), (27, 25424), (28, 25499), (33, 25628), (36, 25667), (38, 25685),

Gene: MissRona_32 Start: 25537, Stop: 26340, Start Num: 6
Candidate Starts for MissRona_32:
(1, 25285), (Start: 6 @25537 has 15 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (21, 25825), (27, 25969), (28, 26044), (29, 26047), (33, 26152), (37, 26194), (45, 26329),

Gene: Obliviate_30 Start: 25111, Stop: 25959, Start Num: 6
Candidate Starts for Obliviate_30:
(Start: 6 @25111 has 15 MA's), (7, 25129), (9, 25198), (10, 25201), (12, 25219), (13, 25222), (18, 25339), (21, 25399), (24, 25435), (25, 25450), (27, 25543), (34, 25753), (37, 25789), (46, 25945),

Gene: PrincePatrick_30 Start: 24913, Stop: 25662, Start Num: 6
Candidate Starts for PrincePatrick_30:
(3, 24733), (4, 24826), (5, 24838), (Start: 6 @24913 has 15 MA's), (7, 24931), (8, 24937), (10, 25003), (13, 25024), (14, 25057), (16, 25105), (23, 25219), (27, 25345), (29, 25423), (30, 25438), (31, 25498), (32, 25507), (35, 25543), (39, 25597), (41, 25642),

Gene: Samba_30 Start: 25306, Stop: 26205, Start Num: 6
Candidate Starts for Samba_30:
(Start: 6 @25306 has 15 MA's), (7, 25324), (9, 25393), (11, 25405), (12, 25414), (13, 25417), (15, 25483), (21, 25594), (27, 25738), (40, 26008), (42, 26089), (48, 26191), (49, 26194), (50, 26197),

Gene: ZiggyZoo_30 Start: 25147, Stop: 26046, Start Num: 6
Candidate Starts for ZiggyZoo_30:
(Start: 6 @25147 has 15 MA's), (7, 25165), (9, 25234), (11, 25246), (13, 25258), (15, 25324), (16, 25339), (21, 25435), (27, 25579), (40, 25849), (42, 25930), (48, 26032), (49, 26035), (50, 26038),

Gene: Zilla_30 Start: 25242, Stop: 26144, Start Num: 6
Candidate Starts for Zilla_30:
(Start: 6 @25242 has 15 MA's), (7, 25260), (10, 25332), (12, 25350), (13, 25353), (21, 25530), (22, 25545), (27, 25674), (28, 25749), (37, 25920), (38, 25935),