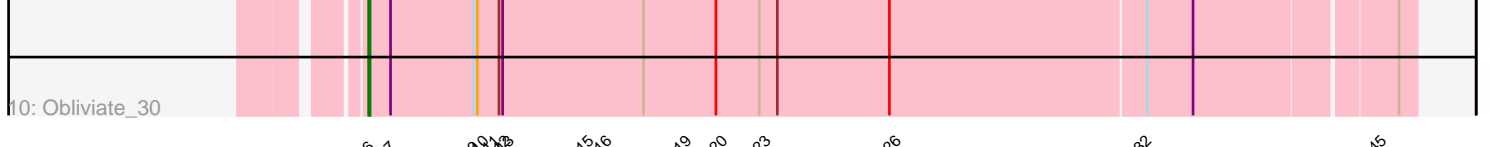
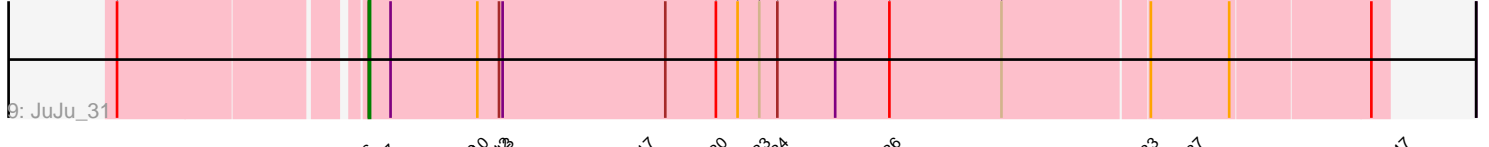
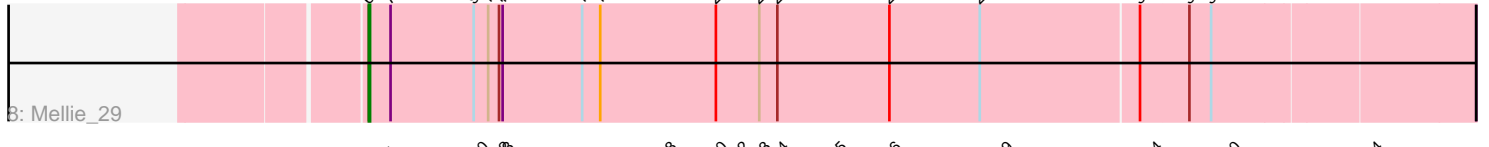
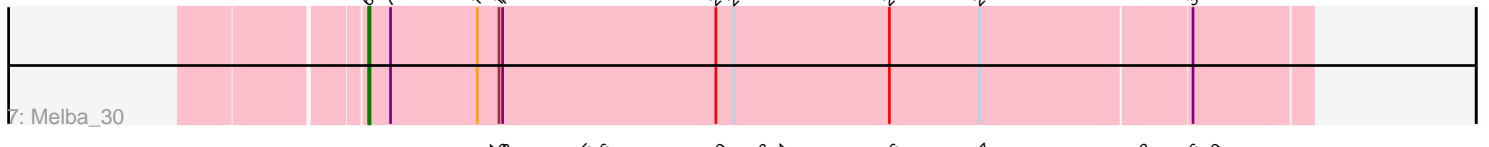
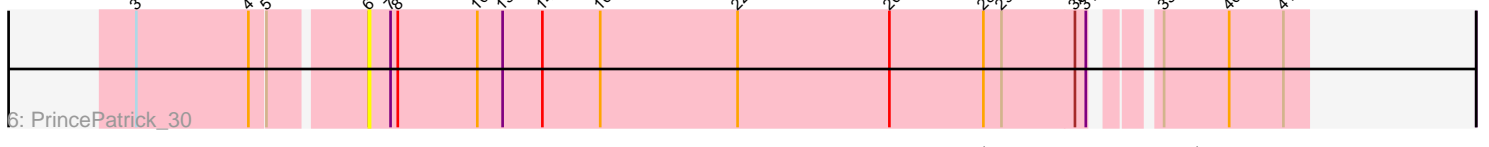
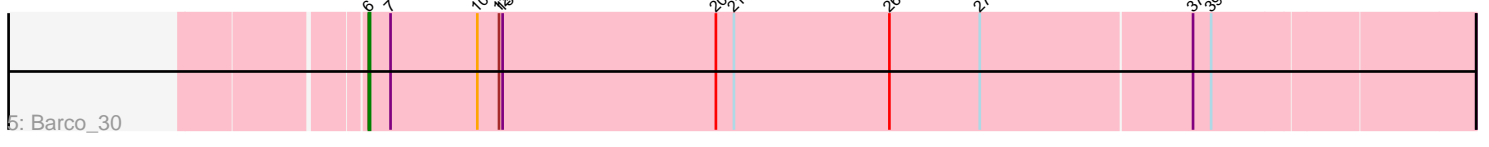
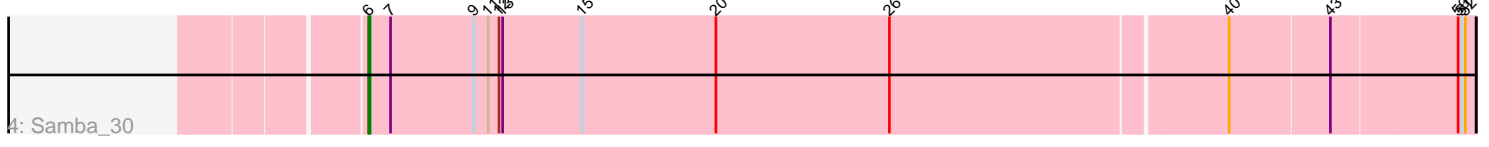
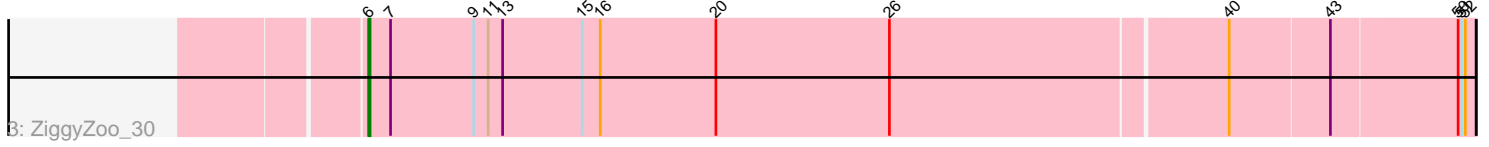
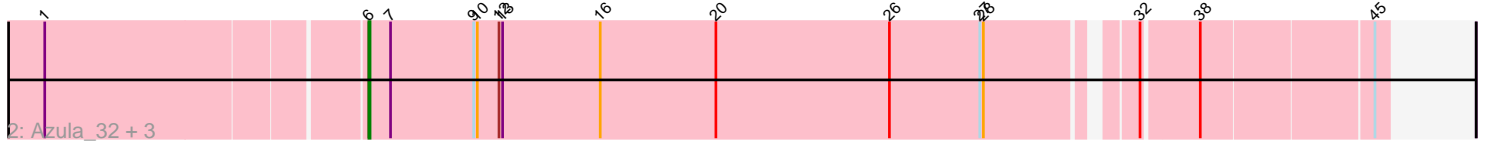
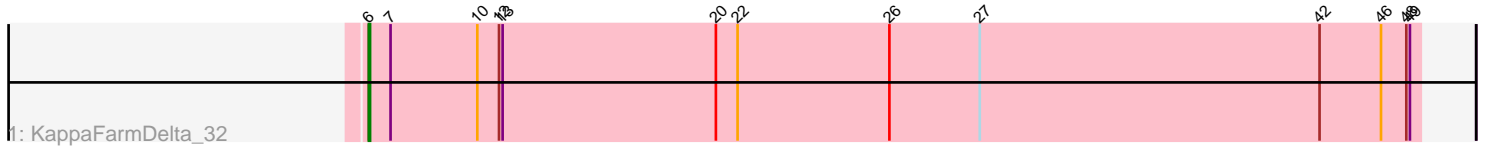


# Pham 164037



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 164037 Report

This analysis was run 04/28/24 on database version 559.

Pham number 164037 has 14 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
- Track 6 : PrincePatrick\_30
- Track 7 : Melba\_30
- Track 8 : Mellie\_29
- Track 9 : JuJu\_31
- Track 10 : Obliviate\_30
- Track 11 : Lysidious\_31

### ***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 13 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azula\_32, Barco\_30, Blueberry\_32, Gambino\_32, JuJu\_31, KappaFarmDelta\_32, Lysidious\_31, Melba\_30, Mellie\_29, MissRona\_32, Obliviate\_30, PrincePatrick\_30, Samba\_30, ZiggyZoo\_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 14 of 14 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Azula\_32 (CV), Barco\_30 (CV), Blueberry\_32 (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),

### 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 13 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 13 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (20, 25825), (26, 25969), (27, 26044), (28, 26047), (32, 26152), (38, 26194), (45, 26329),

Gene: Barco\_30 Start: 25225, Stop: 26127, Start Num: 6

Candidate Starts for Barco\_30:

(Start: 6 @25225 has 13 MA's), (7, 25243), (10, 25315), (12, 25333), (13, 25336), (20, 25513), (21, 25528), (26, 25657), (27, 25732), (37, 25903), (39, 25918),

Gene: Blueberry\_32 Start: 25537, Stop: 26340, Start Num: 6

Candidate Starts for Blueberry\_32:

(1, 25285), (Start: 6 @25537 has 13 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (20, 25825), (26, 25969), (27, 26044), (28, 26047), (32, 26152), (38, 26194), (45, 26329),

Gene: Gambino\_32 Start: 25537, Stop: 26340, Start Num: 6

Candidate Starts for Gambino\_32:

(1, 25285), (Start: 6 @25537 has 13 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (20, 25825), (26, 25969), (27, 26044), (28, 26047), (32, 26152), (38, 26194), (45, 26329),

Gene: JuJu\_31 Start: 25264, Stop: 26094, Start Num: 6

Candidate Starts for JuJu\_31:

(2, 25078), (Start: 6 @25264 has 13 MA's), (7, 25282), (10, 25354), (12, 25372), (13, 25375), (18, 25510), (20, 25552), (22, 25570), (23, 25588), (24, 25603), (25, 25651), (26, 25696), (29, 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 13 MA's), (7, 25104), (10, 25176), (12, 25194), (13, 25197), (20, 25374), (22, 25392), (26, 25518), (27, 25593), (42, 25875), (46, 25926), (48, 25947), (49, 25950),

Gene: Lysidious\_31 Start: 25797, Stop: 26621, Start Num: 6

Candidate Starts for Lysidious\_31:

(Start: 6 @25797 has 13 MA's), (7, 25815), (9, 25884), (10, 25887), (11, 25896), (12, 25905), (13, 25908), (15, 25974), (16, 25989), (19, 26055), (20, 26085), (23, 26121), (26, 26229), (32, 26433), (45, 26610),

Gene: Melba\_30 Start: 25225, Stop: 25989, Start Num: 6

Candidate Starts for Melba\_30:

(Start: 6 @25225 has 13 MA's), (7, 25243), (10, 25315), (12, 25333), (13, 25336), (20, 25513), (21, 25528), (26, 25657), (27, 25732), (37, 25900),

Gene: Mellie\_29 Start: 24992, Stop: 25894, Start Num: 6

Candidate Starts for Mellie\_29:

(Start: 6 @24992 has 13 MA's), (7, 25010), (9, 25079), (11, 25091), (12, 25100), (13, 25103), (15, 25169), (16, 25184), (20, 25280), (23, 25316), (24, 25331), (26, 25424), (27, 25499), (32, 25628), (36, 25667), (39, 25685),

Gene: MissRona\_32 Start: 25537, Stop: 26340, Start Num: 6

Candidate Starts for MissRona\_32:

(1, 25285), (Start: 6 @25537 has 13 MA's), (7, 25555), (9, 25624), (10, 25627), (12, 25645), (13, 25648), (16, 25729), (20, 25825), (26, 25969), (27, 26044), (28, 26047), (32, 26152), (38, 26194), (45, 26329),

Gene: Obliviate\_30 Start: 25111, Stop: 25959, Start Num: 6

Candidate Starts for Obliviate\_30:

(Start: 6 @25111 has 13 MA's), (7, 25129), (9, 25198), (10, 25201), (12, 25219), (13, 25222), (17, 25339), (20, 25399), (23, 25435), (24, 25450), (26, 25543), (33, 25753), (37, 25789), (47, 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 13 MA's), (7, 24931), (8, 24937), (10, 25003), (13, 25024), (14, 25057), (16, 25105), (22, 25219), (26, 25345), (28, 25423), (29, 25438), (30, 25498), (31, 25507), (35, 25543), (40, 25597), (41, 25642),

Gene: Samba\_30 Start: 25306, Stop: 26205, Start Num: 6

Candidate Starts for Samba\_30:

(Start: 6 @25306 has 13 MA's), (7, 25324), (9, 25393), (11, 25405), (12, 25414), (13, 25417), (15, 25483), (20, 25594), (26, 25738), (40, 26008), (43, 26089), (50, 26191), (51, 26194), (52, 26197),

Gene: ZiggyZoo\_30 Start: 25147, Stop: 26046, Start Num: 6

Candidate Starts for ZiggyZoo\_30:

(Start: 6 @25147 has 13 MA's), (7, 25165), (9, 25234), (11, 25246), (13, 25258), (15, 25324), (16, 25339), (20, 25435), (26, 25579), (40, 25849), (43, 25930), (50, 26032), (51, 26035), (52, 26038),