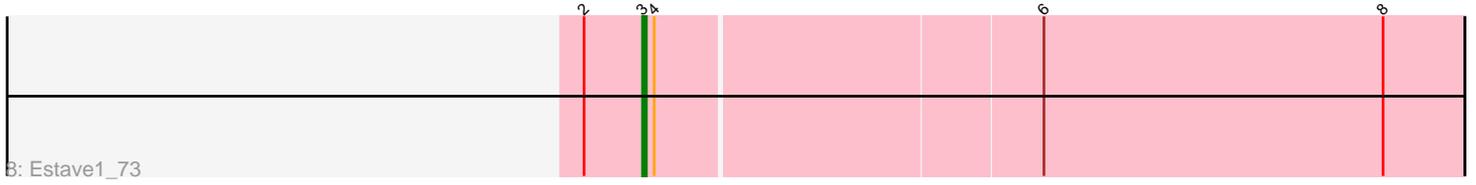
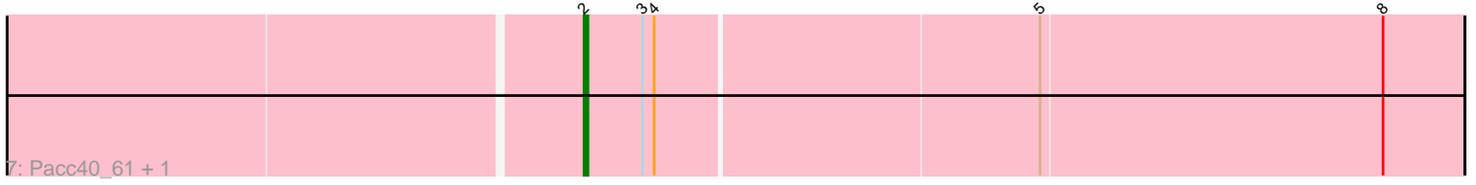
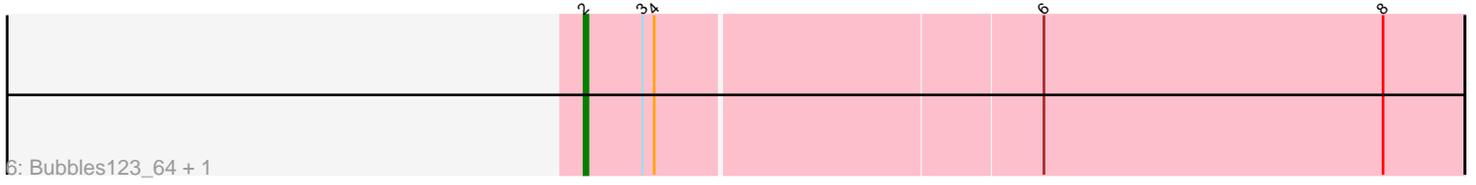
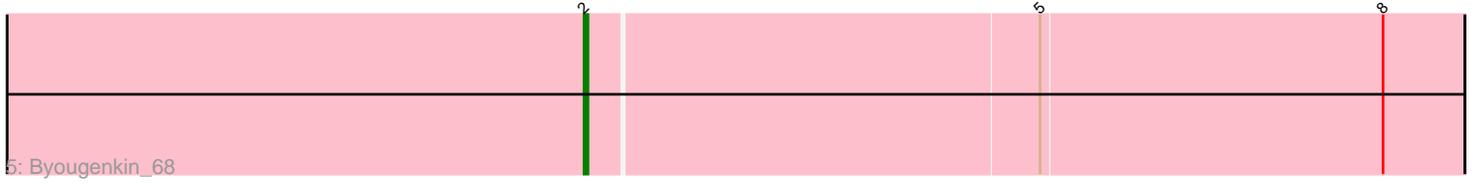
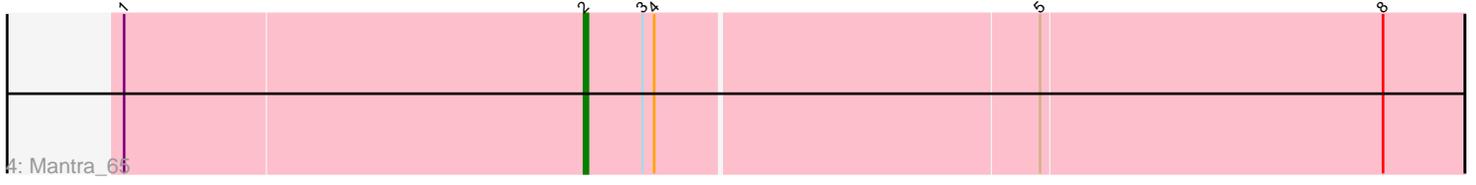
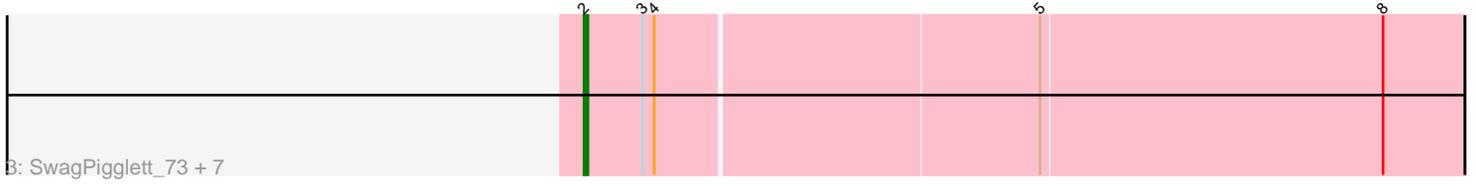
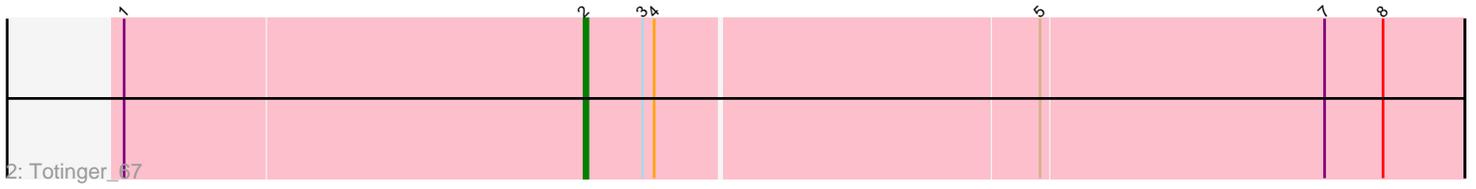


Pham 291350



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 291350 Report

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

Pham number 291350 has 37 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Brookers\_65, LastJedi\_61, Coco12\_67, Saal\_69, James\_71, Cerasum\_64, BigPhil\_64, Kingsley\_65, Clifton\_62, Brocalys\_62, Mattes\_71, Gorge\_71, DosHalletts\_69, Lizziana\_73, Doug\_69, Velveteen\_63, OlympiaSaint\_69, GUmbie\_65, RockyHorror\_68, Sarma624\_66, Rita\_74
- Track 2 : Totinger\_67
- Track 3 : SwagPiggett\_73, Cabrinians\_69, Priscilla\_68, Koella\_62, MinionDave\_67, Spikelee\_75, CaptainTrips\_66, Aubs\_68
- Track 4 : Mantra\_65
- Track 5 : Byougenkin\_68
- Track 6 : Bubbles123\_64, Jarcob\_67
- Track 7 : Pacc40\_61, GigiOuiOui\_63
- Track 8 : Estave1\_73

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

The start number called the most often in the published annotations is 2, it was called in 36 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aubs\_68, BigPhil\_64, Brocalys\_62, Brookers\_65, Bubbles123\_64, Byougenkin\_68, Cabrinians\_69, CaptainTrips\_66, Cerasum\_64, Clifton\_62, Coco12\_67, DosHalletts\_69, Doug\_69, GUmbie\_65, GigiOuiOui\_63, Gorge\_71, James\_71, Jarcob\_67, Kingsley\_65, Koella\_62, LastJedi\_61, Lizziana\_73, Mantra\_65, Mattes\_71, MinionDave\_67, OlympiaSaint\_69, Pacc40\_61, Priscilla\_68, Rita\_74, RockyHorror\_68, Saal\_69, Sarma624\_66, Spikelee\_75, SwagPiggett\_73, Totinger\_67, Velveteen\_63,

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

- Estave1\_73,

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

- 

### **Summary by start number:**

#### Start 2:

- Found in 37 of 37 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 36 of 37
- Called 97.3% of time when present
- Phage (with cluster) where this start called: Aubs\_68 (F1), BigPhil\_64 (F1), Brocalys\_62 (F1), Brookers\_65 (F1), Bubbles123\_64 (F1), Byougenkin\_68 (F1), Cabrinians\_69 (F1), CaptainTrips\_66 (F1), Cerasum\_64 (F1), Clifton\_62 (F1), Coco12\_67 (F1), DosHalletts\_69 (F1), Doug\_69 (F1), GUmble\_65 (F1), GigiOuiOui\_63 (F1), Gorge\_71 (F1), James\_71 (F1), Jarcob\_67 (F1), Kingsley\_65 (F1), Koella\_62 (F1), LastJedi\_61 (F1), Lizziana\_73 (F1), Mantra\_65 (F1), Mattes\_71 (F1), MinionDave\_67 (F1), OlympiaSaint\_69 (F1), Pacc40\_61 (F1), Priscilla\_68 (F1), Rita\_74 (F1), RockyHorror\_68 (F1), Saal\_69 (F1), Sarma624\_66 (F1), Spikelee\_75 (F1), SwagPiggett\_73 (F1), Totinger\_67 (F1), Velveteen\_63 (F1),

#### Start 3:

- Found in 36 of 37 ( 97.3% ) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 2.8% of time when present
- Phage (with cluster) where this start called: Estave1\_73 (F1),

### Summary by clusters:

There is one cluster represented in this pham: F1

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 36 times for cluster F1.
- Start number 3 was manually annotated 1 time for cluster F1.

#### **Gene Information:**

Gene: Aubs\_68 Start: 45292, Stop: 45513, Start Num: 2

Candidate Starts for Aubs\_68:

(Start: 2 @45292 has 36 MA's), (Start: 3 @45307 has 1 MA's), (4, 45310), (5, 45406), (8, 45493),

Gene: BigPhil\_64 Start: 42023, Stop: 42244, Start Num: 2

Candidate Starts for BigPhil\_64:

(Start: 2 @42023 has 36 MA's), (Start: 3 @42038 has 1 MA's), (4, 42041), (5, 42137), (8, 42224),

Gene: Brocalys\_62 Start: 43203, Stop: 43424, Start Num: 2

Candidate Starts for Brocalys\_62:

(Start: 2 @43203 has 36 MA's), (Start: 3 @43218 has 1 MA's), (4, 43221), (5, 43317), (8, 43404),

Gene: Brookers\_65 Start: 44974, Stop: 45195, Start Num: 2

Candidate Starts for Brookers\_65:

(Start: 2 @44974 has 36 MA's), (Start: 3 @44989 has 1 MA's), (4, 44992), (5, 45088), (8, 45175),

Gene: Bubbles123\_64 Start: 44481, Stop: 44702, Start Num: 2

Candidate Starts for Bubbles123\_64:

(Start: 2 @44481 has 36 MA's), (Start: 3 @44496 has 1 MA's), (4, 44499), (6, 44595), (8, 44682),

Gene: Byougenkin\_68 Start: 43105, Stop: 43326, Start Num: 2

Candidate Starts for Byougenkin\_68:

(Start: 2 @43105 has 36 MA's), (5, 43219), (8, 43306),

Gene: Cabrinians\_69 Start: 45124, Stop: 45345, Start Num: 2

Candidate Starts for Cabrinians\_69:

(Start: 2 @45124 has 36 MA's), (Start: 3 @45139 has 1 MA's), (4, 45142), (5, 45238), (8, 45325),

Gene: CaptainTrips\_66 Start: 44859, Stop: 45080, Start Num: 2

Candidate Starts for CaptainTrips\_66:

(Start: 2 @44859 has 36 MA's), (Start: 3 @44874 has 1 MA's), (4, 44877), (5, 44973), (8, 45060),

Gene: Cerasum\_64 Start: 42041, Stop: 42262, Start Num: 2

Candidate Starts for Cerasum\_64:

(Start: 2 @42041 has 36 MA's), (Start: 3 @42056 has 1 MA's), (4, 42059), (5, 42155), (8, 42242),

Gene: Clifton\_62 Start: 43554, Stop: 43775, Start Num: 2

Candidate Starts for Clifton\_62:

(Start: 2 @43554 has 36 MA's), (Start: 3 @43569 has 1 MA's), (4, 43572), (5, 43668), (8, 43755),

Gene: Coco12\_67 Start: 46098, Stop: 46319, Start Num: 2

Candidate Starts for Coco12\_67:

(Start: 2 @46098 has 36 MA's), (Start: 3 @46113 has 1 MA's), (4, 46116), (5, 46212), (8, 46299),

Gene: DosHalletts\_69 Start: 46178, Stop: 46399, Start Num: 2

Candidate Starts for DosHalletts\_69:

(Start: 2 @46178 has 36 MA's), (Start: 3 @46193 has 1 MA's), (4, 46196), (5, 46292), (8, 46379),

Gene: Doug\_69 Start: 46503, Stop: 46724, Start Num: 2

Candidate Starts for Doug\_69:

(Start: 2 @46503 has 36 MA's), (Start: 3 @46518 has 1 MA's), (4, 46521), (5, 46617), (8, 46704),

Gene: Estave1\_73 Start: 47498, Stop: 47704, Start Num: 3

Candidate Starts for Estave1\_73:

(Start: 2 @47483 has 36 MA's), (Start: 3 @47498 has 1 MA's), (4, 47501), (6, 47597), (8, 47684),

Gene: GUmbe\_65 Start: 44551, Stop: 44772, Start Num: 2

Candidate Starts for GUmbe\_65:

(Start: 2 @44551 has 36 MA's), (Start: 3 @44566 has 1 MA's), (4, 44569), (5, 44665), (8, 44752),

Gene: GigiOuiOui\_63 Start: 43697, Stop: 43918, Start Num: 2

Candidate Starts for GigiOuiOui\_63:

(Start: 2 @43697 has 36 MA's), (Start: 3 @43712 has 1 MA's), (4, 43715), (5, 43811), (8, 43898),

Gene: Gorge\_71 Start: 46493, Stop: 46714, Start Num: 2

Candidate Starts for Gorge\_71:

(Start: 2 @46493 has 36 MA's), (Start: 3 @46508 has 1 MA's), (4, 46511), (5, 46607), (8, 46694),

Gene: James\_71 Start: 46618, Stop: 46839, Start Num: 2

Candidate Starts for James\_71:

(Start: 2 @46618 has 36 MA's), (Start: 3 @46633 has 1 MA's), (4, 46636), (5, 46732), (8, 46819),

Gene: Jacob\_67 Start: 45048, Stop: 45269, Start Num: 2

Candidate Starts for Jacob\_67:  
(Start: 2 @45048 has 36 MA's), (Start: 3 @45063 has 1 MA's), (4, 45066), (6, 45162), (8, 45249),

Gene: Kingsley\_65 Start: 44831, Stop: 45052, Start Num: 2  
Candidate Starts for Kingsley\_65:  
(Start: 2 @44831 has 36 MA's), (Start: 3 @44846 has 1 MA's), (4, 44849), (5, 44945), (8, 45032),

Gene: Koella\_62 Start: 41022, Stop: 41243, Start Num: 2  
Candidate Starts for Koella\_62:  
(Start: 2 @41022 has 36 MA's), (Start: 3 @41037 has 1 MA's), (4, 41040), (5, 41136), (8, 41223),

Gene: LastJedi\_61 Start: 43597, Stop: 43818, Start Num: 2  
Candidate Starts for LastJedi\_61:  
(Start: 2 @43597 has 36 MA's), (Start: 3 @43612 has 1 MA's), (4, 43615), (5, 43711), (8, 43798),

Gene: Lizziana\_73 Start: 46099, Stop: 46320, Start Num: 2  
Candidate Starts for Lizziana\_73:  
(Start: 2 @46099 has 36 MA's), (Start: 3 @46114 has 1 MA's), (4, 46117), (5, 46213), (8, 46300),

Gene: Mantra\_65 Start: 44857, Stop: 45078, Start Num: 2  
Candidate Starts for Mantra\_65:  
(1, 44740), (Start: 2 @44857 has 36 MA's), (Start: 3 @44872 has 1 MA's), (4, 44875), (5, 44971), (8, 45058),

Gene: Mattes\_71 Start: 46618, Stop: 46839, Start Num: 2  
Candidate Starts for Mattes\_71:  
(Start: 2 @46618 has 36 MA's), (Start: 3 @46633 has 1 MA's), (4, 46636), (5, 46732), (8, 46819),

Gene: MinionDave\_67 Start: 45395, Stop: 45616, Start Num: 2  
Candidate Starts for MinionDave\_67:  
(Start: 2 @45395 has 36 MA's), (Start: 3 @45410 has 1 MA's), (4, 45413), (5, 45509), (8, 45596),

Gene: OlympiaSaint\_69 Start: 45560, Stop: 45781, Start Num: 2  
Candidate Starts for OlympiaSaint\_69:  
(Start: 2 @45560 has 36 MA's), (Start: 3 @45575 has 1 MA's), (4, 45578), (5, 45674), (8, 45761),

Gene: Pacc40\_61 Start: 45123, Stop: 45344, Start Num: 2  
Candidate Starts for Pacc40\_61:  
(Start: 2 @45123 has 36 MA's), (Start: 3 @45138 has 1 MA's), (4, 45141), (5, 45237), (8, 45324),

Gene: Priscilla\_68 Start: 45134, Stop: 45355, Start Num: 2  
Candidate Starts for Priscilla\_68:  
(Start: 2 @45134 has 36 MA's), (Start: 3 @45149 has 1 MA's), (4, 45152), (5, 45248), (8, 45335),

Gene: Rita\_74 Start: 45986, Stop: 46207, Start Num: 2  
Candidate Starts for Rita\_74:  
(Start: 2 @45986 has 36 MA's), (Start: 3 @46001 has 1 MA's), (4, 46004), (5, 46100), (8, 46187),

Gene: RockyHorror\_68 Start: 44439, Stop: 44660, Start Num: 2  
Candidate Starts for RockyHorror\_68:  
(Start: 2 @44439 has 36 MA's), (Start: 3 @44454 has 1 MA's), (4, 44457), (5, 44553), (8, 44640),

Gene: Saal\_69 Start: 46312, Stop: 46533, Start Num: 2

Candidate Starts for Saal\_69:

(Start: 2 @46312 has 36 MA's), (Start: 3 @46327 has 1 MA's), (4, 46330), (5, 46426), (8, 46513),

Gene: Sarma624\_66 Start: 42023, Stop: 42244, Start Num: 2

Candidate Starts for Sarma624\_66:

(Start: 2 @42023 has 36 MA's), (Start: 3 @42038 has 1 MA's), (4, 42041), (5, 42137), (8, 42224),

Gene: Spikelee\_75 Start: 46711, Stop: 46932, Start Num: 2

Candidate Starts for Spikelee\_75:

(Start: 2 @46711 has 36 MA's), (Start: 3 @46726 has 1 MA's), (4, 46729), (5, 46825), (8, 46912),

Gene: SwagPiggett\_73 Start: 47353, Stop: 47574, Start Num: 2

Candidate Starts for SwagPiggett\_73:

(Start: 2 @47353 has 36 MA's), (Start: 3 @47368 has 1 MA's), (4, 47371), (5, 47467), (8, 47554),

Gene: Totinger\_67 Start: 44193, Stop: 44414, Start Num: 2

Candidate Starts for Totinger\_67:

(1, 44076), (Start: 2 @44193 has 36 MA's), (Start: 3 @44208 has 1 MA's), (4, 44211), (5, 44307), (7, 44379), (8, 44394),

Gene: Velveteen\_63 Start: 42023, Stop: 42244, Start Num: 2

Candidate Starts for Velveteen\_63:

(Start: 2 @42023 has 36 MA's), (Start: 3 @42038 has 1 MA's), (4, 42041), (5, 42137), (8, 42224),