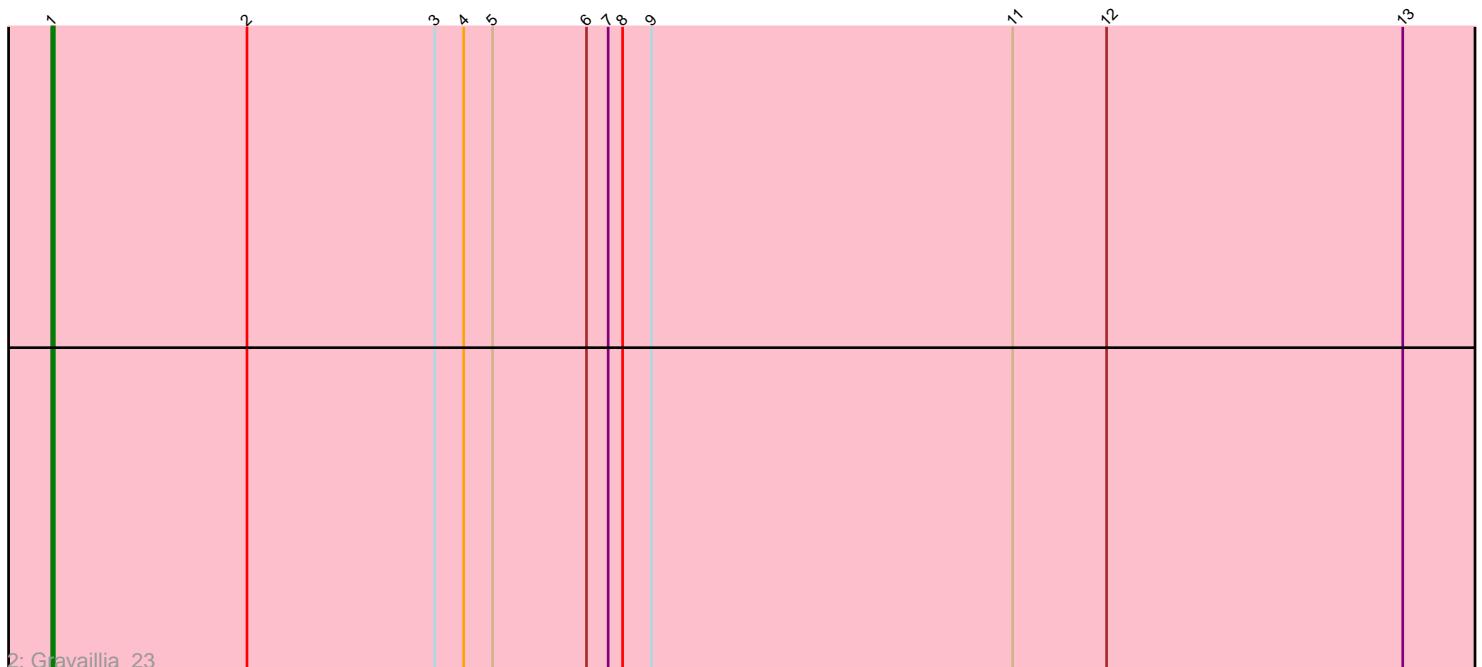
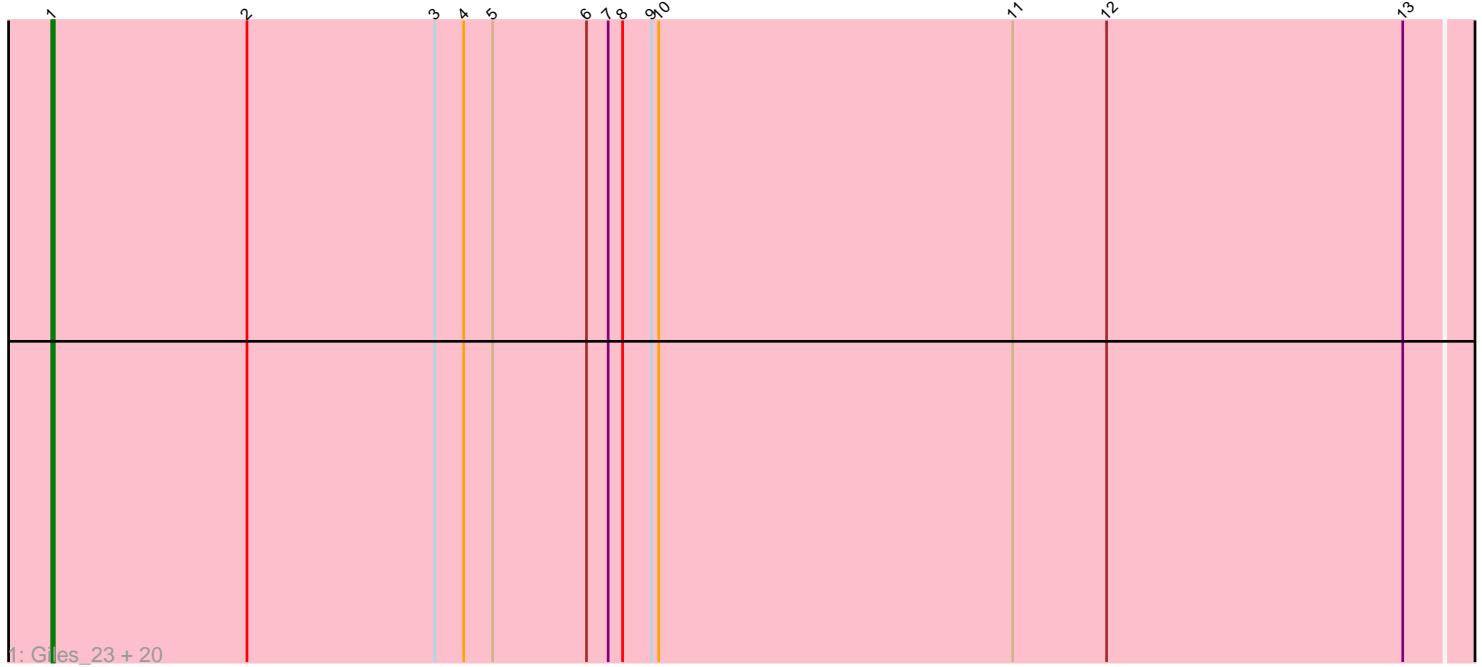


Pham 86573



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 86573 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86573 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Giles\_23, HH92\_23, Wishmaker\_23, Dewey\_23, OBUpride\_23, Forge\_23, Luke\_23, LilHazelnut\_23, Daegal\_24, Amochick\_23, Ubuntu\_23, Luna22\_23, Hail\_23, Kinbote\_23, Evanescce\_23, Hadrien\_23, Gancho\_22, Webster2\_23, DeepSoil15\_23, Amymech\_23, Ein37\_23
- Track 2 : Gravaillia\_23

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

The start number called the most often in the published annotations is 1, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_23, Amymech\_23, Daegal\_24, DeepSoil15\_23, Dewey\_23, Ein37\_23, Evanescce\_23, Forge\_23, Gancho\_22, Giles\_23, Gravaillia\_23, HH92\_23, Hadrien\_23, Hail\_23, Kinbote\_23, LilHazelnut\_23, Luke\_23, Luna22\_23, OBUpride\_23, Ubuntu\_23, Webster2\_23, Wishmaker\_23,

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 1:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick\_23 (Q), Amymech\_23 (Q), Daegal\_24 (Q), DeepSoil15\_23 (Q), Dewey\_23 (Q), Ein37\_23 (Q), Evanescce\_23 (Q), Forge\_23 (Q), Gancho\_22 (Q), Giles\_23 (Q), Gravaillia\_23 (Q), HH92\_23 (Q), Hadrien\_23 (Q), Hail\_23 (Q), Kinbote\_23 (Q), LilHazelnut\_23 (Q), Luke\_23 (Q), Luna22\_23 (Q), OBUpride\_23 (Q), Ubuntu\_23 (Q), Webster2\_23 (Q), Wishmaker\_23

(Q),

### **Summary by clusters:**

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

- Start number 1 was manually annotated 21 times for cluster Q.

### **Gene Information:**

Gene: Amochick\_23 Start: 19151, Stop: 19759, Start Num: 1

Candidate Starts for Amochick\_23:

(Start: 1 @19151 has 21 MA's), (2, 19232), (3, 19310), (4, 19322), (5, 19334), (6, 19373), (7, 19382),  
(8, 19388), (9, 19400), (10, 19403), (11, 19550), (12, 19589), (13, 19712),

Gene: Amymech\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Amymech\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Daegal\_24 Start: 19439, Stop: 20047, Start Num: 1

Candidate Starts for Daegal\_24:

(Start: 1 @19439 has 21 MA's), (2, 19520), (3, 19598), (4, 19610), (5, 19622), (6, 19661), (7, 19670),  
(8, 19676), (9, 19688), (10, 19691), (11, 19838), (12, 19877), (13, 20000),

Gene: DeepSoil15\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for DeepSoil15\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Dewey\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Dewey\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Ein37\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Ein37\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Evansce\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Evansce\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Forge\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Forge\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Gancho\_22 Start: 18869, Stop: 19477, Start Num: 1

Candidate Starts for Gancho\_22:

(Start: 1 @18869 has 21 MA's), (2, 18950), (3, 19028), (4, 19040), (5, 19052), (6, 19091), (7, 19100),  
(8, 19106), (9, 19118), (10, 19121), (11, 19268), (12, 19307), (13, 19430),

Gene: Giles\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Giles\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Gravaillia\_23 Start: 18875, Stop: 19483, Start Num: 1

Candidate Starts for Gravaillia\_23:

(Start: 1 @18875 has 21 MA's), (2, 18956), (3, 19034), (4, 19046), (5, 19058), (6, 19097), (7, 19106),  
(8, 19112), (9, 19124), (11, 19274), (12, 19313), (13, 19436),

Gene: HH92\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for HH92\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Hadrien\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Hadrien\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Hail\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Hail\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Kinbote\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Kinbote\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: LilHazelnut\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for LilHazelnut\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Luke\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Luke\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Luna22\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Luna22\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: OBUpride\_23 Start: 19142, Stop: 19747, Start Num: 1

Candidate Starts for OBUpride\_23:

(Start: 1 @19142 has 21 MA's), (2, 19223), (3, 19301), (4, 19313), (5, 19325), (6, 19364), (7, 19373),  
(8, 19379), (9, 19391), (10, 19394), (11, 19541), (12, 19580), (13, 19703),

Gene: Ubuntu\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Ubuntu\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Webster2\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Webster2\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),

Gene: Wishmaker\_23 Start: 19148, Stop: 19753, Start Num: 1

Candidate Starts for Wishmaker\_23:

(Start: 1 @19148 has 21 MA's), (2, 19229), (3, 19307), (4, 19319), (5, 19331), (6, 19370), (7, 19379),  
(8, 19385), (9, 19397), (10, 19400), (11, 19547), (12, 19586), (13, 19709),