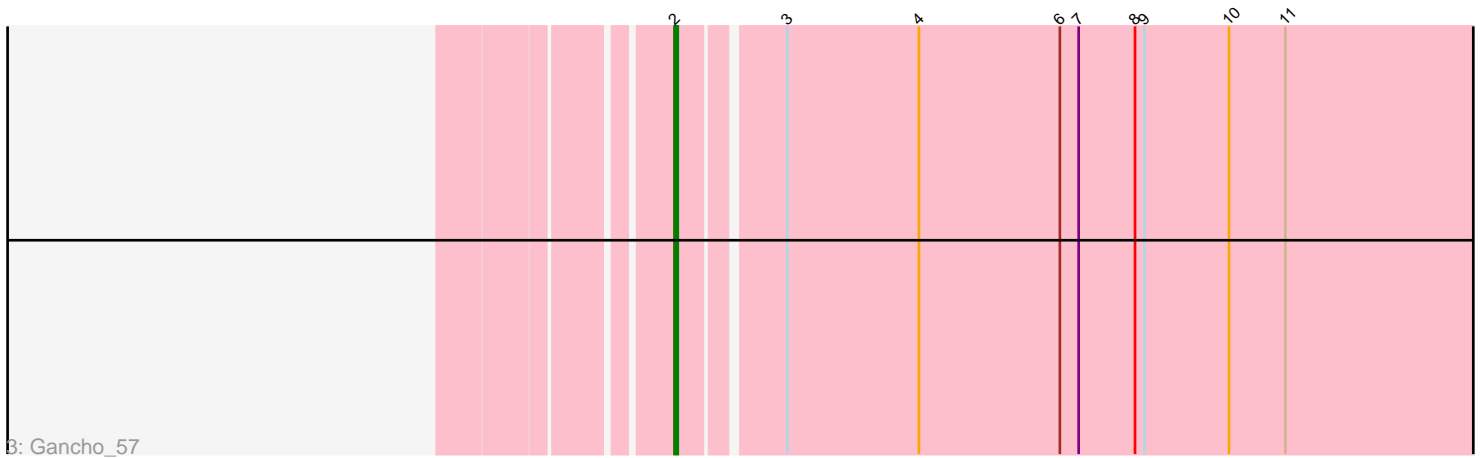
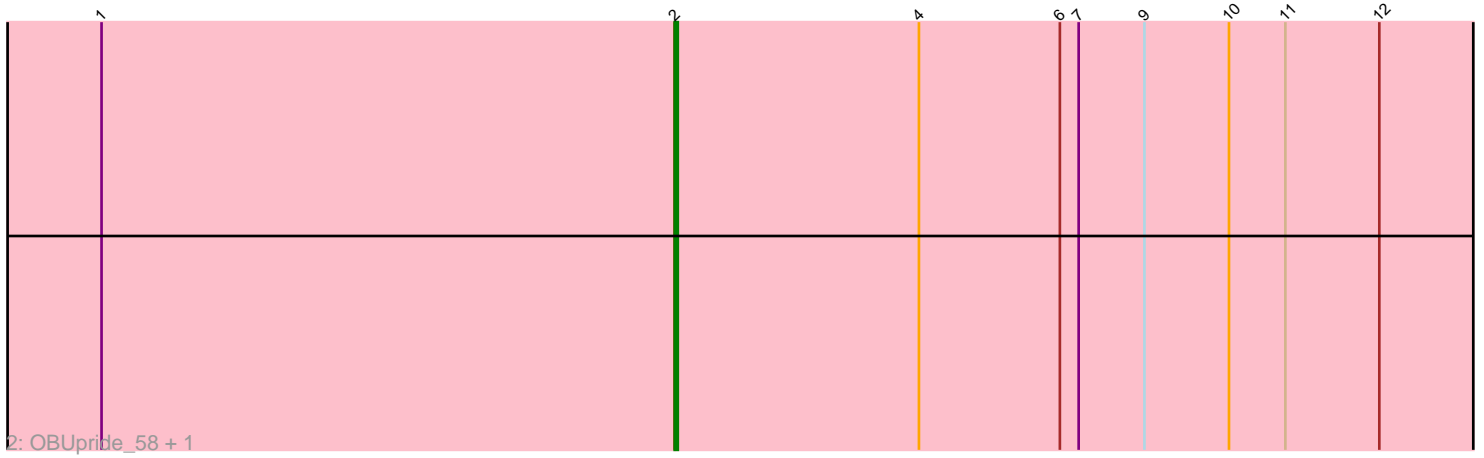
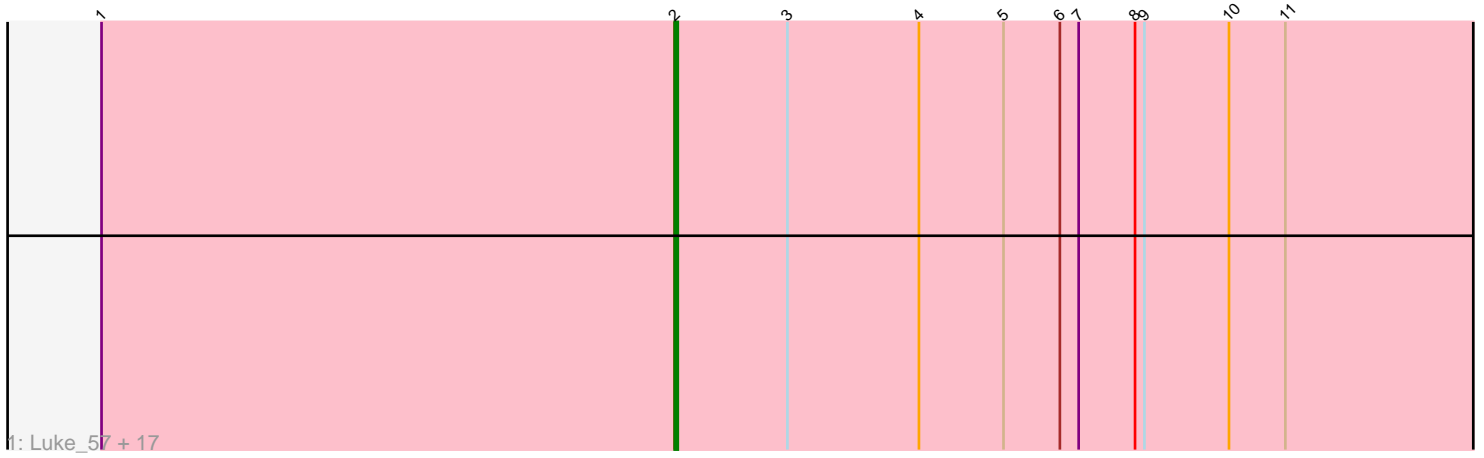


Pham 194340



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 194340 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194340 has 21 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Luke\_57, Evanesce\_57, Amochick\_58, Hail\_55, Wishmaker\_55, Ubuntu\_58, Daegal\_60, Dewey\_55, DeepSoil15\_58, Webster2\_58, Forge\_55, Amymech\_58, LilHazelNut\_58, Luna22\_55, Kinbote\_57, Hadrien\_57, Giles\_55, Ein37\_58
- Track 2 : OBUpride\_58, Gravaillia\_56
- Track 3 : Gancho\_57

### ***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 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_58, Amymech\_58, Daegal\_60, DeepSoil15\_58, Dewey\_55, Ein37\_58, Evanesce\_57, Forge\_55, Gancho\_57, Giles\_55, Gravaillia\_56, Hadrien\_57, Hail\_55, Kinbote\_57, LilHazelNut\_58, Luke\_57, Luna22\_55, OBUpride\_58, Ubuntu\_58, Webster2\_58, Wishmaker\_55,

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 2:

- Found in 21 of 21 ( 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\_58 (Q), Amymech\_58 (Q), Daegal\_60 (Q), DeepSoil15\_58 (Q), Dewey\_55 (Q), Ein37\_58 (Q), Evanesce\_57 (Q), Forge\_55 (Q), Gancho\_57 (Q), Giles\_55 (Q), Gravaillia\_56 (Q), Hadrien\_57 (Q), Hail\_55 (Q), Kinbote\_57 (Q), LilHazelNut\_58 (Q), Luke\_57 (Q), Luna22\_55 (Q),

OBUpride\_58 (Q), Ubuntu\_58 (Q), Webster2\_58 (Q), Wishmaker\_55 (Q),

### **Summary by clusters:**

There is one cluster represented in this pham: Q

Info for manual annotations of cluster Q:

•Start number 2 was manually annotated 21 times for cluster Q.

### **Gene Information:**

Gene: Amochick\_58 Start: 41480, Stop: 41785, Start Num: 2

Candidate Starts for Amochick\_58:

(1, 41297), (Start: 2 @41480 has 21 MA's), (3, 41510), (4, 41552), (5, 41579), (6, 41597), (7, 41603), (8, 41621), (9, 41624), (10, 41651), (11, 41669),

Gene: Amymech\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Amymech\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Daegal\_60 Start: 42034, Stop: 42351, Start Num: 2

Candidate Starts for Daegal\_60:

(1, 41851), (Start: 2 @42034 has 21 MA's), (3, 42070), (4, 42112), (5, 42139), (6, 42157), (7, 42163), (8, 42181), (9, 42184), (10, 42211), (11, 42229),

Gene: DeepSoil15\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for DeepSoil15\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Dewey\_55 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Dewey\_55:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Ein37\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Ein37\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Evanesce\_57 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Evanesce\_57:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Forge\_55 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Forge\_55:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Gancho\_57 Start: 41182, Stop: 41487, Start Num: 2

Candidate Starts for Gancho\_57:

(Start: 2 @41182 has 21 MA's), (3, 41212), (4, 41254), (6, 41299), (7, 41305), (8, 41323), (9, 41326), (10, 41353), (11, 41371),

Gene: Giles\_55 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Giles\_55:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Gravaillia\_56 Start: 41458, Stop: 41775, Start Num: 2

Candidate Starts for Gravaillia\_56:

(1, 41275), (Start: 2 @41458 has 21 MA's), (4, 41536), (6, 41581), (7, 41587), (9, 41608), (10, 41635), (11, 41653), (12, 41683),

Gene: Hadrien\_57 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Hadrien\_57:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Hail\_55 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Hail\_55:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Kinbote\_57 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Kinbote\_57:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: LilHazelnut\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for LilHazelnut\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Luke\_57 Start: 41405, Stop: 41722, Start Num: 2

Candidate Starts for Luke\_57:

(1, 41222), (Start: 2 @41405 has 21 MA's), (3, 41441), (4, 41483), (5, 41510), (6, 41528), (7, 41534), (8, 41552), (9, 41555), (10, 41582), (11, 41600),

Gene: Luna22\_55 Start: 41434, Stop: 41751, Start Num: 2

Candidate Starts for Luna22\_55:

(1, 41251), (Start: 2 @41434 has 21 MA's), (3, 41470), (4, 41512), (5, 41539), (6, 41557), (7, 41563), (8, 41581), (9, 41584), (10, 41611), (11, 41629),

Gene: OBUpride\_58 Start: 41446, Stop: 41763, Start Num: 2

Candidate Starts for OBUpride\_58:

(1, 41263), (Start: 2 @41446 has 21 MA's), (4, 41524), (6, 41569), (7, 41575), (9, 41596), (10, 41623), (11, 41641), (12, 41671),

Gene: Ubuntu\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Ubuntu\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Webster2\_58 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Webster2\_58:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),

Gene: Wishmaker\_55 Start: 41450, Stop: 41767, Start Num: 2

Candidate Starts for Wishmaker\_55:

(1, 41267), (Start: 2 @41450 has 21 MA's), (3, 41486), (4, 41528), (5, 41555), (6, 41573), (7, 41579), (8, 41597), (9, 41600), (10, 41627), (11, 41645),