



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 3762 Report

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

Pham number 3762 has 21 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Zenteno07\_16
- Track 2 : Evanesce\_2, Giles\_2, Amymech\_2, Hadrien\_2, Ein37\_2, Forge\_2, Kinbote\_2, LilHazelNut\_2, HH92\_2, Hail\_2, Dewey\_2, Webster2\_2, Ubuntu\_2, OBUpride\_2, Daegal\_2, Luke\_2, DeepSoil15\_2, Luna22\_2, Wishmaker\_2, Amochick\_2

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_2, Amymech\_2, Daegal\_2, DeepSoil15\_2, Dewey\_2, Ein37\_2, Evanesce\_2, Forge\_2, Giles\_2, HH92\_2, Hadrien\_2, Hail\_2, Kinbote\_2, LilHazelNut\_2, Luke\_2, Luna22\_2, OBUpride\_2, Ubuntu\_2, Webster2\_2, Wishmaker\_2,

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

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

- Zenteno07\_16,

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

Start 5:

- Found in 20 of 21 ( 95.2% ) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amochick\_2 (Q), Amymech\_2 (Q), Daegal\_2 (Q), DeepSoil15\_2 (Q), Dewey\_2 (Q), Ein37\_2 (Q), Evanesce\_2 (Q), Forge\_2 (Q), Giles\_2 (Q), HH92\_2 (Q), Hadrien\_2 (Q), Hail\_2 (Q), Kinbote\_2 (Q), LilHazelNut\_2 (Q), Luke\_2 (Q), Luna22\_2 (Q), OBUpride\_2 (Q), Ubuntu\_2 (Q), Webster2\_2 (Q), Wishmaker\_2 (Q),

Start 6:

- Found in 1 of 21 ( 4.8% ) of genes in pham
- Manual Annotations of this start: 1 of 20
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zenteno07\_16 (B13),

### **Summary by clusters:**

There are 2 clusters represented in this pham: Q, B13,

Info for manual annotations of cluster B13:

- Start number 6 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster Q:

- Start number 5 was manually annotated 19 times for cluster Q.

### **Gene Information:**

Gene: Amochick\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Amochick\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Amymech\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Amymech\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Daegal\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Daegal\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: DeepSoil15\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for DeepSoil15\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Dewey\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Dewey\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Ein37\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Ein37\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Evanesce\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Evanesce\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Forge\_2 Start: 800, Stop: 630, Start Num: 5

Candidate Starts for Forge\_2:

(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Giles\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Giles\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: HH92\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for HH92\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Hadrien\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Hadrien\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Hail\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Hail\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Kinbote\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Kinbote\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: LilHazelnut\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for LilHazelnut\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Luke\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Luke\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Luna22\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Luna22\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: OBUpride\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for OBUpride\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Ubuntu\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Ubuntu\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Webster2\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Webster2\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Wishmaker\_2 Start: 800, Stop: 630, Start Num: 5  
Candidate Starts for Wishmaker\_2:  
(Start: 5 @800 has 19 MA's), (9, 692),

Gene: Zenteno07\_16 Start: 10605, Stop: 10423, Start Num: 6  
Candidate Starts for Zenteno07\_16:  
(1, 10716), (2, 10692), (3, 10689), (4, 10674), (Start: 6 @10605 has 1 MA's), (7, 10602), (8, 10521),  
(10, 10491), (11, 10431),