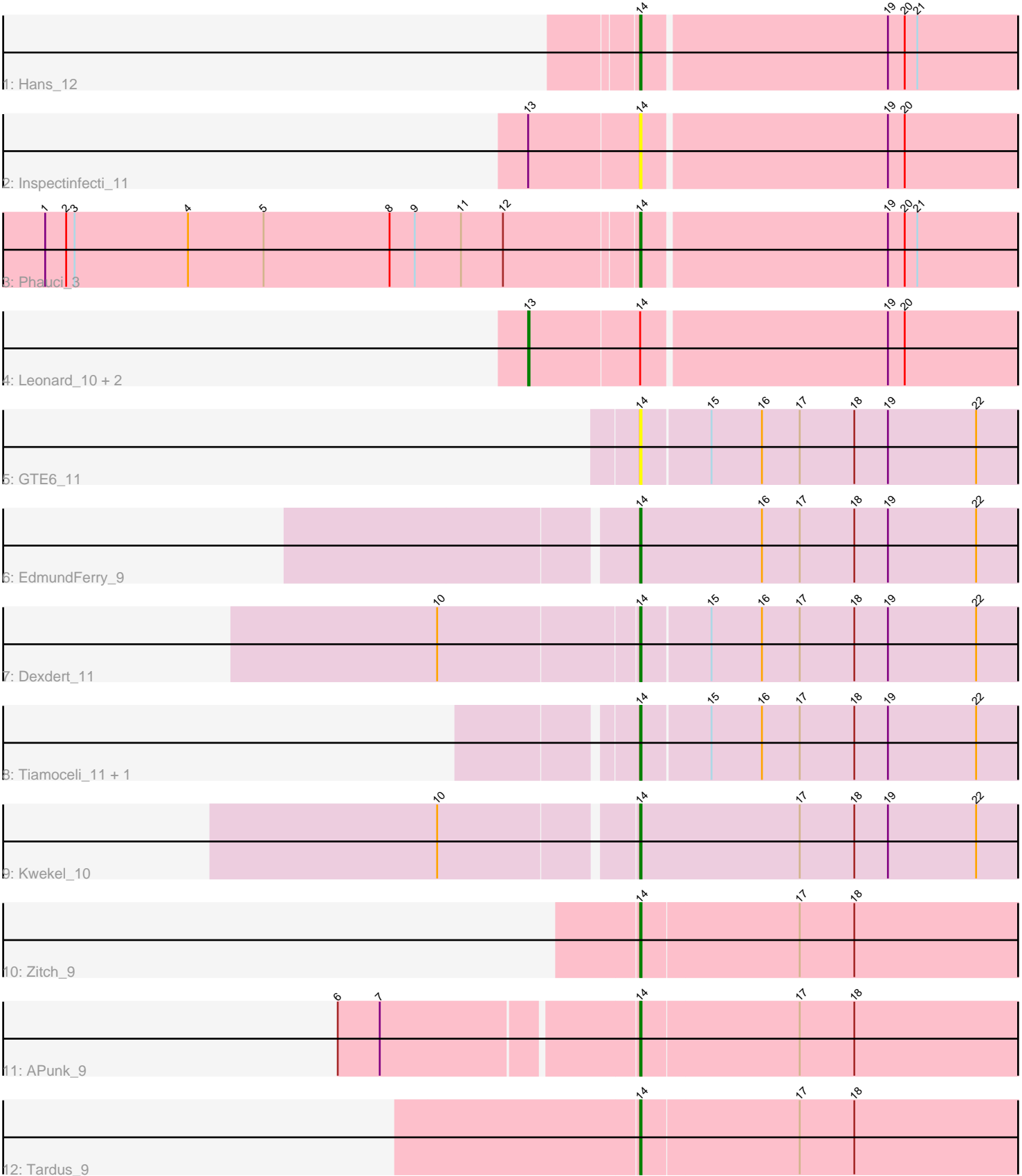


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 87047 Report

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

Pham number 87047 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Hans\_12
- Track 2 : Inspectinfecti\_11
- Track 3 : Phauci\_3
- Track 4 : Leonard\_10, Phinally\_10, Ali17\_8
- Track 5 : GTE6\_11
- Track 6 : EdmundFerry\_9
- Track 7 : Dexdert\_11
- Track 8 : Tiamoceli\_11, Chickadee\_10
- Track 9 : Kwekel\_10
- Track 10 : Zitch\_9
- Track 11 : APunk\_9
- Track 12 : Tardus\_9

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

The start number called the most often in the published annotations is 14, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_9, Chickadee\_10, Dexdert\_11, EdmundFerry\_9, GTE6\_11, Hans\_12, Inspectinfecti\_11, Kwekel\_10, Phauci\_3, Tardus\_9, Tiamoceli\_11, Zitch\_9,

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

- Ali17\_8, Leonard\_10, Phinally\_10,

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

•

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

Start 13:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 3 of 12
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Ali17\_8 (DE2), Leonard\_10 (DE2), Phinally\_10 (DE2),

Start 14:

- Found in 15 of 15 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 9 of 12
- Called 80.0% of time when present
- Phage (with cluster) where this start called: APunk\_9 (DE4), Chickadee\_10 (DE3), Dextert\_11 (DE3), EdmundFerry\_9 (DE3), GTE6\_11 (DE3), Hans\_12 (DE2), Inspectinfecti\_11 (DE2), Kwekel\_10 (DE3), Phauci\_3 (DE2), Tardus\_9 (DE4), Tiamoceli\_11 (DE3), Zitch\_9 (DE4),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DE2, DE3, DE4,

Info for manual annotations of cluster DE2:

- Start number 13 was manually annotated 3 times for cluster DE2.
- Start number 14 was manually annotated 2 times for cluster DE2.

Info for manual annotations of cluster DE3:

- Start number 14 was manually annotated 4 times for cluster DE3.

Info for manual annotations of cluster DE4:

- Start number 14 was manually annotated 3 times for cluster DE4.

### **Gene Information:**

Gene: APunk\_9 Start: 5467, Stop: 5790, Start Num: 14

Candidate Starts for APunk\_9:

(6, 5263), (7, 5293), (Start: 14 @5467 has 9 MA's), (17, 5578), (18, 5617),

Gene: Ali17\_8 Start: 5210, Stop: 5608, Start Num: 13

Candidate Starts for Ali17\_8:

(Start: 13 @5210 has 3 MA's), (Start: 14 @5288 has 9 MA's), (19, 5459), (20, 5471),

Gene: Chickadee\_10 Start: 4398, Stop: 4721, Start Num: 14

Candidate Starts for Chickadee\_10:

(Start: 14 @4398 has 9 MA's), (15, 4446), (16, 4482), (17, 4509), (18, 4548), (19, 4572), (22, 4635),

Gene: Dextert\_11 Start: 4856, Stop: 5179, Start Num: 14

Candidate Starts for Dextert\_11:

(10, 4718), (Start: 14 @4856 has 9 MA's), (15, 4904), (16, 4940), (17, 4967), (18, 5006), (19, 5030), (22, 5093),

Gene: EdmundFerry\_9 Start: 4410, Stop: 4736, Start Num: 14

Candidate Starts for EdmundFerry\_9:

(Start: 14 @4410 has 9 MA's), (16, 4497), (17, 4524), (18, 4563), (19, 4587), (22, 4650),

Gene: GTE6\_11 Start: 4914, Stop: 5237, Start Num: 14

Candidate Starts for GTE6\_11:

(Start: 14 @4914 has 9 MA's), (15, 4962), (16, 4998), (17, 5025), (18, 5064), (19, 5088), (22, 5151),

Gene: Hans\_12 Start: 5823, Stop: 6143, Start Num: 14

Candidate Starts for Hans\_12:

(Start: 14 @5823 has 9 MA's), (19, 5994), (20, 6006), (21, 6015),

Gene: Inspectinfecti\_11 Start: 6345, Stop: 6665, Start Num: 14

Candidate Starts for Inspectinfecti\_11:

(Start: 13 @6267 has 3 MA's), (Start: 14 @6345 has 9 MA's), (19, 6516), (20, 6528),

Gene: Kwekel\_10 Start: 4405, Stop: 4731, Start Num: 14

Candidate Starts for Kwekel\_10:

(10, 4273), (Start: 14 @4405 has 9 MA's), (17, 4519), (18, 4558), (19, 4582), (22, 4645),

Gene: Leonard\_10 Start: 5862, Stop: 6260, Start Num: 13

Candidate Starts for Leonard\_10:

(Start: 13 @5862 has 3 MA's), (Start: 14 @5940 has 9 MA's), (19, 6111), (20, 6123),

Gene: Phauci\_3 Start: 2464, Stop: 2784, Start Num: 14

Candidate Starts for Phauci\_3:

(1, 2047), (2, 2062), (3, 2068), (4, 2149), (5, 2203), (8, 2293), (9, 2311), (11, 2344), (12, 2374), (Start: 14 @2464 has 9 MA's), (19, 2635), (20, 2647), (21, 2656),

Gene: Phinally\_10 Start: 5859, Stop: 6257, Start Num: 13

Candidate Starts for Phinally\_10:

(Start: 13 @5859 has 3 MA's), (Start: 14 @5937 has 9 MA's), (19, 6108), (20, 6120),

Gene: Tardus\_9 Start: 4183, Stop: 4506, Start Num: 14

Candidate Starts for Tardus\_9:

(Start: 14 @4183 has 9 MA's), (17, 4294), (18, 4333),

Gene: Tiamoceli\_11 Start: 5252, Stop: 5575, Start Num: 14

Candidate Starts for Tiamoceli\_11:

(Start: 14 @5252 has 9 MA's), (15, 5300), (16, 5336), (17, 5363), (18, 5402), (19, 5426), (22, 5489),

Gene: Zitch\_9 Start: 4724, Stop: 5047, Start Num: 14

Candidate Starts for Zitch\_9:

(Start: 14 @4724 has 9 MA's), (17, 4835), (18, 4874),