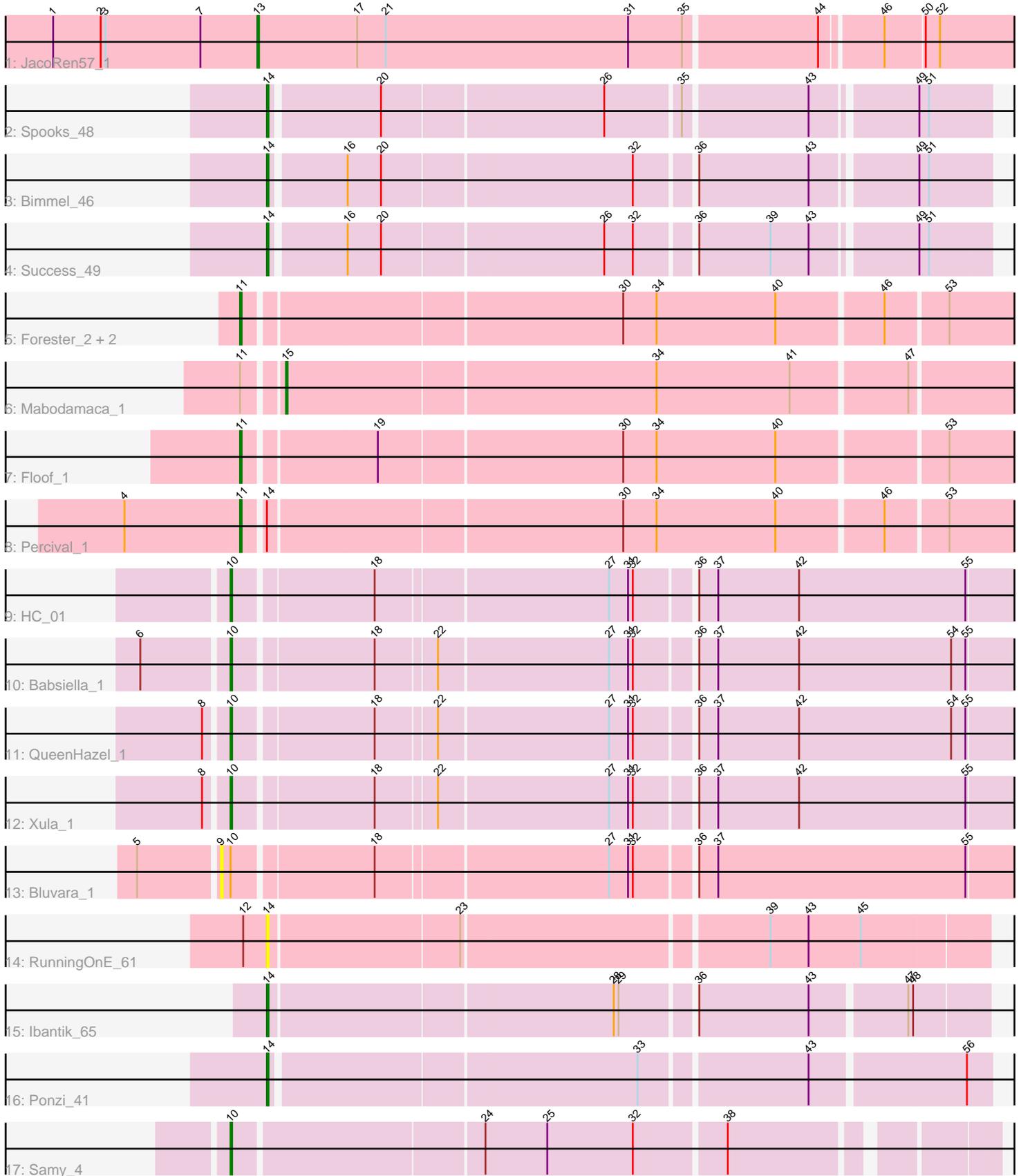


Pham 284223



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 284223 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284223 has 19 members, 4 are drafts.

Phages represented in each track:

- Track 1 : JacoRen57\_1
- Track 2 : Spooks\_48
- Track 3 : Bimmel\_46
- Track 4 : Success\_49
- Track 5 : Forester\_2, SuperHands\_1, Gretchen\_1
- Track 6 : Mabodamaca\_1
- Track 7 : Floof\_1
- Track 8 : Percival\_1
- Track 9 : HC\_01
- Track 10 : Babsiella\_1
- Track 11 : QueenHazel\_1
- Track 12 : Xula\_1
- Track 13 : Bluvara\_1
- Track 14 : RunningOnE\_61
- Track 15 : Ibantik\_65
- Track 16 : Ponzi\_41
- Track 17 : Samy\_4

### ***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 5 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bimmel\_46, Ibantik\_65, Ponzi\_41, RunningOnE\_61, Spooks\_48, Success\_49,

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

- Percival\_1,

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

- Babsiella\_1, Bluvara\_1, Floof\_1, Forester\_2, Gretchen\_1, HC\_01, JacoRen57\_1, Mabodamaca\_1, QueenHazel\_1, Samy\_4, SuperHands\_1, Xula\_1,

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

Start 9:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bluvara\_1 (UNK),

Start 10:

- Found in 6 of 19 ( 31.6% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Babsiella\_1 (I1), HC\_01 (I1), QueenHazel\_1 (I1), Samy\_4 (singleton), Xula\_1 (I1),

Start 11:

- Found in 6 of 19 ( 31.6% ) of genes in pham
- Manual Annotations of this start: 3 of 15
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Floop\_1 (EH), Forester\_2 (EH), Gretchen\_1 (EH), Percival\_1 (EH), SuperHands\_1 (EH),

Start 13:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JacoRen57\_1 (AB),

Start 14:

- Found in 7 of 19 ( 36.8% ) of genes in pham
- Manual Annotations of this start: 5 of 15
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Bimmel\_46 (BT), Ibantik\_65 (singleton), Ponzi\_41 (singleton), RunningOnE\_61 (UNK), Spooks\_48 (BT), Success\_49 (BT),

Start 15:

- Found in 1 of 19 ( 5.3% ) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabodamaca\_1 (EH),

**Summary by clusters:**

There are 6 clusters represented in this pham: singleton, AB, EH, I1, BT, UNK,

Info for manual annotations of cluster AB:

- Start number 13 was manually annotated 1 time for cluster AB.

Info for manual annotations of cluster BT:

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

Info for manual annotations of cluster EH:

- Start number 11 was manually annotated 3 times for cluster EH.
- Start number 15 was manually annotated 1 time for cluster EH.

Info for manual annotations of cluster I1:

•Start number 10 was manually annotated 4 times for cluster I1.

**Gene Information:**

Gene: Babsiella\_1 Start: 67, Stop: 540, Start Num: 10

Candidate Starts for Babsiella\_1:

(6, 16), (Start: 10 @67 has 5 MA's), (18, 151), (22, 187), (27, 292), (31, 304), (32, 307), (36, 340), (37, 352), (42, 403), (54, 499), (55, 508),

Gene: Bimmel\_46 Start: 24939, Stop: 25364, Start Num: 14

Candidate Starts for Bimmel\_46:

(Start: 14 @24939 has 5 MA's), (16, 24984), (20, 25005), (32, 25158), (36, 25191), (43, 25260), (49, 25320), (51, 25326),

Gene: Bluvara\_1 Start: 62, Stop: 541, Start Num: 9

Candidate Starts for Bluvara\_1:

(5, 14), (9, 62), (Start: 10 @68 has 5 MA's), (18, 152), (27, 293), (31, 305), (32, 308), (36, 341), (37, 353), (55, 509),

Gene: Floof\_1 Start: 122, Stop: 601, Start Num: 11

Candidate Starts for Floof\_1:

(Start: 11 @122 has 3 MA's), (19, 200), (30, 350), (34, 371), (40, 446), (53, 545),

Gene: Forester\_2 Start: 128, Stop: 607, Start Num: 11

Candidate Starts for Forester\_2:

(Start: 11 @128 has 3 MA's), (30, 356), (34, 377), (40, 452), (46, 515), (53, 551),

Gene: Gretchen\_1 Start: 128, Stop: 607, Start Num: 11

Candidate Starts for Gretchen\_1:

(Start: 11 @128 has 3 MA's), (30, 356), (34, 377), (40, 452), (46, 515), (53, 551),

Gene: HC\_01 Start: 67, Stop: 540, Start Num: 10

Candidate Starts for HC\_01:

(Start: 10 @67 has 5 MA's), (18, 151), (27, 292), (31, 304), (32, 307), (36, 340), (37, 352), (42, 403), (55, 508),

Gene: Ibantik\_65 Start: 27614, Stop: 28042, Start Num: 14

Candidate Starts for Ibantik\_65:

(Start: 14 @27614 has 5 MA's), (28, 27824), (29, 27827), (36, 27869), (43, 27938), (47, 27995), (48, 27998),

Gene: JacoRen57\_1 Start: 190, Stop: 669, Start Num: 13

Candidate Starts for JacoRen57\_1:

(1, 61), (2, 91), (3, 94), (7, 154), (Start: 13 @190 has 1 MA's), (17, 253), (21, 271), (31, 424), (35, 457), (44, 538), (46, 574), (50, 598), (52, 607),

Gene: Mabodamaca\_1 Start: 146, Stop: 604, Start Num: 15

Candidate Starts for Mabodamaca\_1:

(Start: 11 @125 has 3 MA's), (Start: 15 @146 has 1 MA's), (34, 374), (41, 458), (47, 527),

Gene: Percival\_1 Start: 128, Stop: 607, Start Num: 11

Candidate Starts for Percival\_1:

(4, 56), (Start: 11 @128 has 3 MA's), (Start: 14 @140 has 5 MA's), (30, 356), (34, 377), (40, 452), (46, 515), (53, 551),

Gene: Ponzi\_41 Start: 22312, Stop: 22740, Start Num: 14

Candidate Starts for Ponzi\_41:

(Start: 14 @22312 has 5 MA's), (33, 22534), (43, 22633), (56, 22726),

Gene: QueenHazel\_1 Start: 67, Stop: 540, Start Num: 10

Candidate Starts for QueenHazel\_1:

(8, 55), (Start: 10 @67 has 5 MA's), (18, 151), (22, 187), (27, 292), (31, 304), (32, 307), (36, 340), (37, 352), (42, 403), (54, 499), (55, 508),

Gene: RunningOnE\_61 Start: 26921, Stop: 27355, Start Num: 14

Candidate Starts for RunningOnE\_61:

(12, 26906), (Start: 14 @26921 has 5 MA's), (23, 27038), (39, 27221), (43, 27245), (45, 27278),

Gene: Samy\_4 Start: 1334, Stop: 1780, Start Num: 10

Candidate Starts for Samy\_4:

(Start: 10 @1334 has 5 MA's), (24, 1484), (25, 1523), (32, 1577), (38, 1631),

Gene: Spooks\_48 Start: 26248, Stop: 26673, Start Num: 14

Candidate Starts for Spooks\_48:

(Start: 14 @26248 has 5 MA's), (20, 26314), (26, 26449), (35, 26494), (43, 26569), (49, 26629), (51, 26635),

Gene: Success\_49 Start: 25367, Stop: 25792, Start Num: 14

Candidate Starts for Success\_49:

(Start: 14 @25367 has 5 MA's), (16, 25412), (20, 25433), (26, 25568), (32, 25586), (36, 25619), (39, 25664), (43, 25688), (49, 25748), (51, 25754),

Gene: SuperHands\_1 Start: 128, Stop: 607, Start Num: 11

Candidate Starts for SuperHands\_1:

(Start: 11 @128 has 3 MA's), (30, 356), (34, 377), (40, 452), (46, 515), (53, 551),

Gene: Xula\_1 Start: 67, Stop: 540, Start Num: 10

Candidate Starts for Xula\_1:

(8, 55), (Start: 10 @67 has 5 MA's), (18, 151), (22, 187), (27, 292), (31, 304), (32, 307), (36, 340), (37, 352), (42, 403), (55, 508),