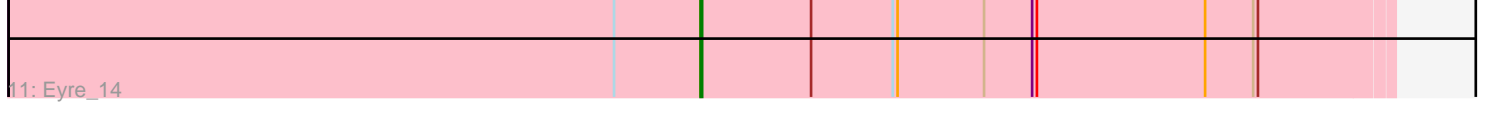
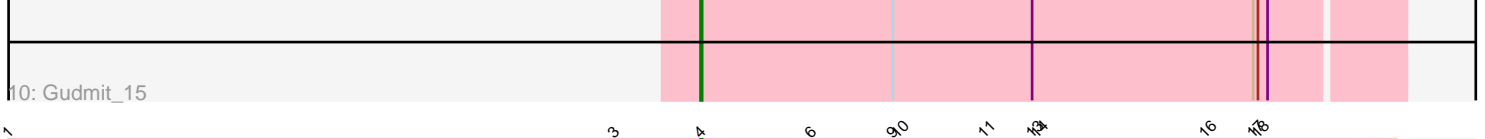
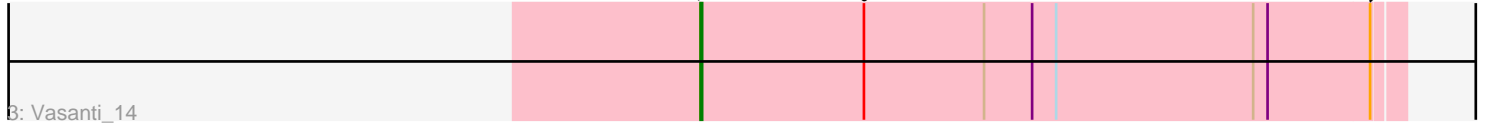
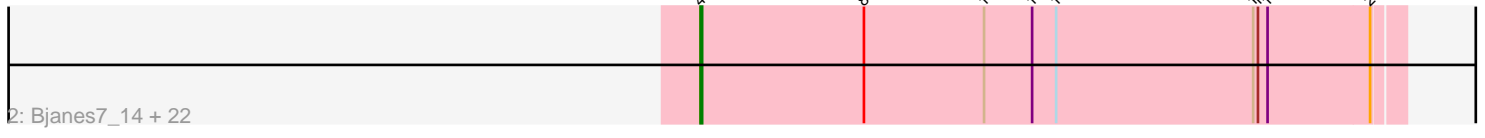
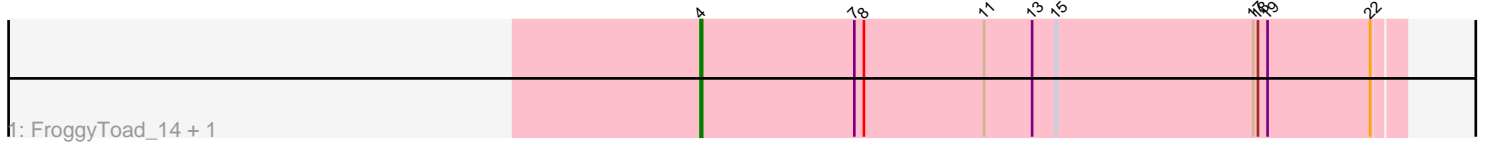


Pham 305169



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 305169 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305169 has 36 members, 3 are drafts.

Phages represented in each track:

- Track 1 : FroggyToad\_14, Moosehead\_14
- Track 2 : Bjanese7\_14, Mocha12\_14, EdnaMode\_14, Whiteclaw\_14, Savage\_14, Matteo\_14, Pickett\_14, Clap\_14, SoilAssassin\_14, Haley23\_14, Jalleen\_15, GemG\_14, Cynthia\_14, TuertoX\_14, Lamberg\_14, Nettuno\_14, LordFarquaad\_14, Ebert\_14, Gizermo\_14, Yeet412\_14, Yinzer\_14, Sproutie\_14, Attis\_14
- Track 3 : Vasanti\_14
- Track 4 : JCole\_14
- Track 5 : Sahara\_14
- Track 6 : Denise\_14
- Track 7 : OneDirection\_14, Pepperoni\_14, Lton\_14
- Track 8 : Faith5x5\_14
- Track 9 : RavenCo17\_14
- Track 10 : Gudmit\_15
- Track 11 : Eyre\_14

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

The start number called the most often in the published annotations is 4, it was called in 33 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attis\_14, Bjanese7\_14, Clap\_14, Cynthia\_14, Denise\_14, Ebert\_14, EdnaMode\_14, Eyre\_14, Faith5x5\_14, FroggyToad\_14, GemG\_14, Gizermo\_14, Gudmit\_15, Haley23\_14, JCole\_14, Jalleen\_15, Lamberg\_14, LordFarquaad\_14, Lton\_14, Matteo\_14, Mocha12\_14, Moosehead\_14, Nettuno\_14, OneDirection\_14, Pepperoni\_14, Pickett\_14, RavenCo17\_14, Sahara\_14, Savage\_14, SoilAssassin\_14, Sproutie\_14, TuertoX\_14, Vasanti\_14, Whiteclaw\_14, Yeet412\_14, Yinzer\_14,

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 4:

- Found in 36 of 36 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 33 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis\_14 (CZ2), Bjanes7\_14 (CZ2), Clap\_14 (CZ2), Cynthia\_14 (CZ2), Denise\_14 (CZ5), Ebert\_14 (CZ2), EdnaMode\_14 (CZ2), Eyre\_14 (singleton), Faith5x5\_14 (CZ6), FroggyToad\_14 (CZ2), GemG\_14 (CZ2), Gizermo\_14 (CZ2), Gudmit\_15 (singleton), Haley23\_14 (CZ2), JCole\_14 (CZ2), Jalleen\_15 (CZ2), Lamberg\_14 (CZ2), LordFarquaad\_14 (CZ2), Lton\_14 (CZ), Matteo\_14 (CZ2), Mocha12\_14 (CZ2), Moosehead\_14 (CZ6), Nettuno\_14 (CZ2), OneDirection\_14 (CZ6), Pepperoni\_14 (CZ), Pickett\_14 (CZ2), RavenCo17\_14 (CZ8), Sahara\_14 (CZ2), Savage\_14 (CZ2), SoilAssassin\_14 (CZ2), Sproutie\_14 (CZ2), TuertoX\_14 (CZ2), Vasanti\_14 (CZ2), Whiteclaw\_14 (CZ2), Yeet412\_14 (CZ2), Yinzer\_14 (CZ2),

## Summary by clusters:

There are 6 clusters represented in this pham: CZ8, CZ2, CZ6, singleton, CZ5, CZ,

Info for manual annotations of cluster CZ:

- Start number 4 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ2:

- Start number 4 was manually annotated 24 times for cluster CZ2.

Info for manual annotations of cluster CZ5:

- Start number 4 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 4 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ8:

- Start number 4 was manually annotated 1 time for cluster CZ8.

## Gene Information:

Gene: Attis\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Attis\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Bjanes7\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Bjanes7\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Clap\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Clap\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Cynthia\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Cynthia\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Denise\_14 Start: 9083, Stop: 9601, Start Num: 4

Candidate Starts for Denise\_14:

(Start: 4 @9083 has 33 MA's), (8, 9185), (11, 9260), (13, 9290), (15, 9305), (17, 9428), (18, 9431), (19, 9437), (22, 9500), (23, 9530),

Gene: Ebert\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Ebert\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: EdnaMode\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for EdnaMode\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Eyre\_14 Start: 9759, Stop: 10187, Start Num: 4

Candidate Starts for Eyre\_14:

(1, 9327), (3, 9705), (Start: 4 @9759 has 33 MA's), (6, 9828), (9, 9879), (10, 9882), (11, 9936), (13, 9966), (14, 9969), (16, 10074), (17, 10104), (18, 10107),

Gene: Faith5x5\_14 Start: 9042, Stop: 9476, Start Num: 4

Candidate Starts for Faith5x5\_14:

(Start: 4 @9042 has 33 MA's), (7, 9138), (8, 9144), (11, 9219), (13, 9249), (15, 9264), (17, 9387), (18, 9390), (19, 9396), (20, 9405), (22, 9459),

Gene: FroggyToad\_14 Start: 9086, Stop: 9520, Start Num: 4

Candidate Starts for FroggyToad\_14:

(Start: 4 @9086 has 33 MA's), (7, 9182), (8, 9188), (11, 9263), (13, 9293), (15, 9308), (17, 9431), (18, 9434), (19, 9440), (22, 9503),

Gene: GemG\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for GemG\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Gizermo\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Gizermo\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Gudmit\_15 Start: 9859, Stop: 10293, Start Num: 4

Candidate Starts for Gudmit\_15:

(Start: 4 @9859 has 33 MA's), (9, 9979), (13, 10066), (17, 10204), (18, 10207), (19, 10213),

Gene: Haley23\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Haley23\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: JCole\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for JCole\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Jalleen\_15 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Jalleen\_15:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Lamberg\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Lamberg\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: LordFarquaad\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for LordFarquaad\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Lton\_14 Start: 9099, Stop: 9533, Start Num: 4

Candidate Starts for Lton\_14:

(Start: 4 @9099 has 33 MA's), (8, 9201), (11, 9276), (12, 9282), (13, 9306), (15, 9321), (17, 9444), (18, 9447), (19, 9453), (22, 9516),

Gene: Matteo\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Matteo\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Mocha12\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Mocha12\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Moosehead\_14 Start: 9045, Stop: 9479, Start Num: 4

Candidate Starts for Moosehead\_14:

(Start: 4 @9045 has 33 MA's), (7, 9141), (8, 9147), (11, 9222), (13, 9252), (15, 9267), (17, 9390), (18, 9393), (19, 9399), (22, 9462),

Gene: Nettuno\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Nettuno\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: OneDirection\_14 Start: 9043, Stop: 9477, Start Num: 4

Candidate Starts for OneDirection\_14:

(Start: 4 @9043 has 33 MA's), (8, 9145), (11, 9220), (12, 9226), (13, 9250), (15, 9265), (17, 9388), (18, 9391), (19, 9397), (22, 9460),

Gene: Pepperoni\_14 Start: 9393, Stop: 9827, Start Num: 4

Candidate Starts for Pepperoni\_14:

(Start: 4 @9393 has 33 MA's), (8, 9495), (11, 9570), (12, 9576), (13, 9600), (15, 9615), (17, 9738), (18, 9741), (19, 9747), (22, 9810),

Gene: Pickett\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Pickett\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: RavenCo17\_14 Start: 9940, Stop: 10368, Start Num: 4

Candidate Starts for RavenCo17\_14:

(1, 9508), (2, 9592), (3, 9886), (Start: 4 @9940 has 33 MA's), (5, 9961), (6, 10009), (9, 10060), (11, 10117), (13, 10147), (14, 10150), (16, 10255), (17, 10285), (18, 10288),

Gene: Sahara\_14 Start: 9154, Stop: 9591, Start Num: 4

Candidate Starts for Sahara\_14:

(Start: 4 @9154 has 33 MA's), (8, 9256), (13, 9361), (15, 9376), (17, 9499), (18, 9502), (19, 9508), (21, 9532), (22, 9571),

Gene: Savage\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Savage\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: SoilAssassin\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for SoilAssassin\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Sproutie\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Sproutie\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: TuertoX\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for TuertoX\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Vasanti\_14 Start: 9086, Stop: 9520, Start Num: 4

Candidate Starts for Vasanti\_14:

(Start: 4 @9086 has 33 MA's), (8, 9188), (11, 9263), (13, 9293), (15, 9308), (17, 9431), (19, 9440), (22, 9503),

Gene: Whiteclaw\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Whiteclaw\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),

Gene: Yeet412\_14 Start: 9070, Stop: 9504, Start Num: 4

Candidate Starts for Yeet412\_14:

(Start: 4 @9070 has 33 MA's), (8, 9172), (11, 9247), (13, 9277), (15, 9292), (17, 9415), (18, 9418), (19, 9424), (22, 9487),

Gene: Yinzer\_14 Start: 9137, Stop: 9571, Start Num: 4

Candidate Starts for Yinzer\_14:

(Start: 4 @9137 has 33 MA's), (8, 9239), (11, 9314), (13, 9344), (15, 9359), (17, 9482), (18, 9485), (19, 9491), (22, 9554),