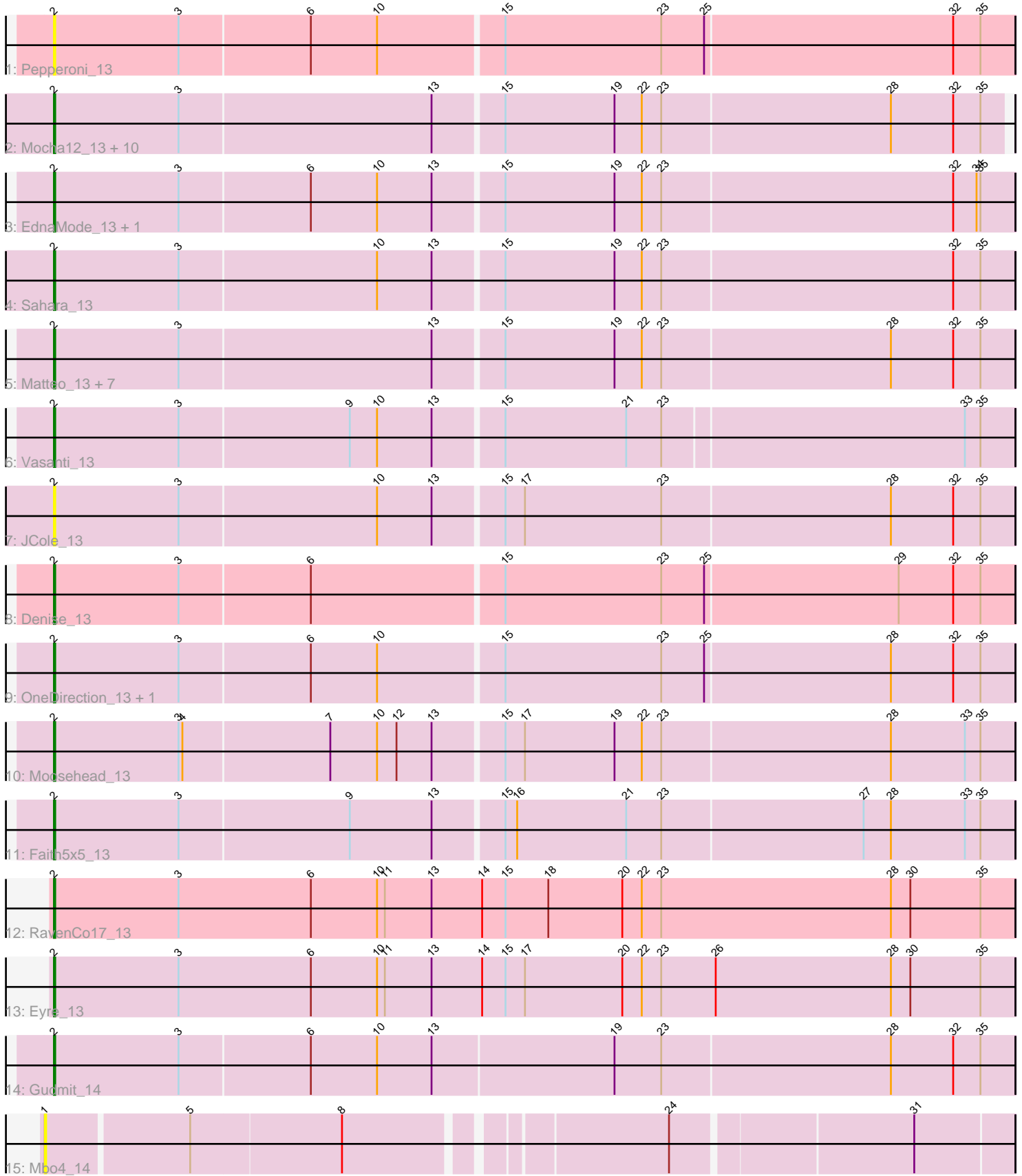


Pham 163795



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 163795 Report

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

Pham number 163795 has 34 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Pepperoni\_13
- Track 2 : Mocha12\_13, Savage\_13, Whiteclaw\_13, Clap\_13, Haley23\_13, Cynthia\_13, GemG\_13, TuertoX\_13, Ebert\_13, Gizermo\_13, Sproutie\_13
- Track 3 : EdnaMode\_13, Lamberg\_13
- Track 4 : Sahara\_13
- Track 5 : Matteo\_13, Bjanes7\_13, Pickett\_13, SoilAssassin\_13, Nettuno\_13, Yeet412\_13, LordFarquaad\_13, Attis\_13
- Track 6 : Vasanti\_13
- Track 7 : JCole\_13
- Track 8 : Denise\_13
- Track 9 : OneDirection\_13, Lton\_13
- Track 10 : Moosehead\_13
- Track 11 : Faith5x5\_13
- Track 12 : RavenCo17\_13
- Track 13 : Eyre\_13
- Track 14 : Gudmit\_14
- Track 15 : Mbo4\_14

### ***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 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attis\_13, Bjanes7\_13, Clap\_13, Cynthia\_13, Denise\_13, Ebert\_13, EdnaMode\_13, Eyre\_13, Faith5x5\_13, GemG\_13, Gizermo\_13, Gudmit\_14, Haley23\_13, JCole\_13, Lamberg\_13, LordFarquaad\_13, Lton\_13, Matteo\_13, Mocha12\_13, Moosehead\_13, Nettuno\_13, OneDirection\_13, Pepperoni\_13, Pickett\_13, RavenCo17\_13, Sahara\_13, Savage\_13, SoilAssassin\_13, Sproutie\_13, TuertoX\_13, Vasanti\_13, Whiteclaw\_13, Yeet412\_13,

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

-

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

- Mbo4\_14,

### Summary by start number:

Start 1:

- Found in 1 of 34 ( 2.9% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo4\_14 (singleton),

Start 2:

- Found in 33 of 34 ( 97.1% ) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis\_13 (CZ2), Bjanes7\_13 (CZ2), Clap\_13 (CZ2), Cynthia\_13 (CZ2), Denise\_13 (CZ5), Ebert\_13 (CZ2), EdnaMode\_13 (CZ2), Eyre\_13 (singleton), Faith5x5\_13 (CZ6), GemG\_13 (CZ2), Gizermo\_13 (CZ2), Gudmit\_14 (singleton), Haley23\_13 (CZ2), JCole\_13 (CZ2), Lamberg\_13 (CZ2), LordFarquaad\_13 (CZ2), Lton\_13 (CZ), Matteo\_13 (CZ2), Mocha12\_13 (CZ2), Moosehead\_13 (CZ6), Nettuno\_13 (CZ2), OneDirection\_13 (CZ6), Pepperoni\_13 (CZ), Pickett\_13 (CZ2), RavenCo17\_13 (CZ8), Sahara\_13 (CZ2), Savage\_13 (CZ2), SoilAssassin\_13 (CZ2), Sproutie\_13 (CZ2), TuertoX\_13 (CZ2), Vasanti\_13 (CZ2), Whiteclaw\_13 (CZ2), Yeet412\_13 (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 2 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:

- Start number 2 was manually annotated 22 times for cluster CZ2.

Info for manual annotations of cluster CZ5:

- Start number 2 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 2 was manually annotated 3 times for cluster CZ6.

Info for manual annotations of cluster CZ8:

- Start number 2 was manually annotated 1 time for cluster CZ8.

### Gene Information:

Gene: Attis\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Attis\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: Bjaner7\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Bjaner7\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: Clap\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Clap\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Cynthia\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Cynthia\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Denise\_13 Start: 8374, Stop: 9102, Start Num: 2

Candidate Starts for Denise\_13:

(Start: 2 @8374 has 30 MA's), (3, 8470), (6, 8569), (15, 8713), (23, 8833), (25, 8866), (29, 9013), (32, 9055), (35, 9076),

Gene: Ebert\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Ebert\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: EdnaMode\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for EdnaMode\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (6, 8556), (10, 8607), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (32, 9042), (34, 9060), (35, 9063),

Gene: Eyre\_13 Start: 9038, Stop: 9778, Start Num: 2

Candidate Starts for Eyre\_13:

(Start: 2 @9038 has 30 MA's), (3, 9134), (6, 9236), (10, 9287), (11, 9293), (13, 9329), (14, 9368), (15, 9386), (17, 9401), (20, 9476), (22, 9491), (23, 9506), (26, 9548), (28, 9683), (30, 9698), (35, 9752),

Gene: Faith5x5\_13 Start: 8333, Stop: 9061, Start Num: 2

Candidate Starts for Faith5x5\_13:

(Start: 2 @8333 has 30 MA's), (3, 8429), (9, 8558), (13, 8621), (15, 8672), (16, 8681), (21, 8765), (23, 8792), (27, 8945), (28, 8966), (33, 9023), (35, 9035),

Gene: GemG\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for GemG\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Gizermo\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Gizermo\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Gudmit\_14 Start: 9147, Stop: 9878, Start Num: 2

Candidate Starts for Gudmit\_14:

(Start: 2 @9147 has 30 MA's), (3, 9243), (6, 9342), (10, 9393), (13, 9435), (19, 9573), (23, 9609), (28, 9783), (32, 9831), (35, 9852),

Gene: Haley23\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Haley23\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: JCole\_13 Start: 8428, Stop: 9156, Start Num: 2

Candidate Starts for JCole\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (10, 8674), (13, 8716), (15, 8767), (17, 8782), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Lamberg\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Lamberg\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (6, 8556), (10, 8607), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (32, 9042), (34, 9060), (35, 9063),

Gene: LordFarquaad\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for LordFarquaad\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: Lton\_13 Start: 8390, Stop: 9118, Start Num: 2

Candidate Starts for Lton\_13:

(Start: 2 @8390 has 30 MA's), (3, 8486), (6, 8585), (10, 8636), (15, 8729), (23, 8849), (25, 8882), (28, 9023), (32, 9071), (35, 9092),

Gene: Matteo\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Matteo\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: Mbo4\_14 Start: 9106, Stop: 9801, Start Num: 1

Candidate Starts for Mbo4\_14:

(1, 9106), (5, 9211), (8, 9325), (24, 9550), (31, 9727),

Gene: Mocha12\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Mocha12\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Moosehead\_13 Start: 8336, Stop: 9064, Start Num: 2

Candidate Starts for Moosehead\_13:

(Start: 2 @8336 has 30 MA's), (3, 8432), (4, 8435), (7, 8546), (10, 8582), (12, 8597), (13, 8624), (15, 8675), (17, 8690), (19, 8759), (22, 8780), (23, 8795), (28, 8969), (33, 9026), (35, 9038),

Gene: Nettuno\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Nettuno\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: OneDirection\_13 Start: 8334, Stop: 9062, Start Num: 2

Candidate Starts for OneDirection\_13:

(Start: 2 @8334 has 30 MA's), (3, 8430), (6, 8529), (10, 8580), (15, 8673), (23, 8793), (25, 8826), (28, 8967), (32, 9015), (35, 9036),

Gene: Pepperoni\_13 Start: 8684, Stop: 9412, Start Num: 2

Candidate Starts for Pepperoni\_13:

(Start: 2 @8684 has 30 MA's), (3, 8780), (6, 8879), (10, 8930), (15, 9023), (23, 9143), (25, 9176), (32, 9365), (35, 9386),

Gene: Pickett\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Pickett\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: RavenCo17\_13 Start: 9219, Stop: 9959, Start Num: 2

Candidate Starts for RavenCo17\_13:

(Start: 2 @9219 has 30 MA's), (3, 9315), (6, 9417), (10, 9468), (11, 9474), (13, 9510), (14, 9549), (15, 9567), (18, 9600), (20, 9657), (22, 9672), (23, 9687), (28, 9864), (30, 9879), (35, 9933),

Gene: Sahara\_13 Start: 8445, Stop: 9173, Start Num: 2

Candidate Starts for Sahara\_13:

(Start: 2 @8445 has 30 MA's), (3, 8541), (10, 8691), (13, 8733), (15, 8784), (19, 8868), (22, 8889), (23, 8904), (32, 9126), (35, 9147),

Gene: Savage\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Savage\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: SoilAssassin\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for SoilAssassin\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),

Gene: Sproutie\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Sproutie\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: TuertoX\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for TuertoX\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Vasanti\_13 Start: 8380, Stop: 9105, Start Num: 2

Candidate Starts for Vasanti\_13:

(Start: 2 @8380 has 30 MA's), (3, 8476), (9, 8605), (10, 8626), (13, 8668), (15, 8719), (21, 8812), (23, 8839), (33, 9067), (35, 9079),

Gene: Whiteclaw\_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Whiteclaw\_13:

(Start: 2 @8428 has 30 MA's), (3, 8524), (13, 8716), (15, 8767), (19, 8851), (22, 8872), (23, 8887), (28, 9061), (32, 9109), (35, 9130),

Gene: Yeet412\_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Yeet412\_13:

(Start: 2 @8361 has 30 MA's), (3, 8457), (13, 8649), (15, 8700), (19, 8784), (22, 8805), (23, 8820), (28, 8994), (32, 9042), (35, 9063),