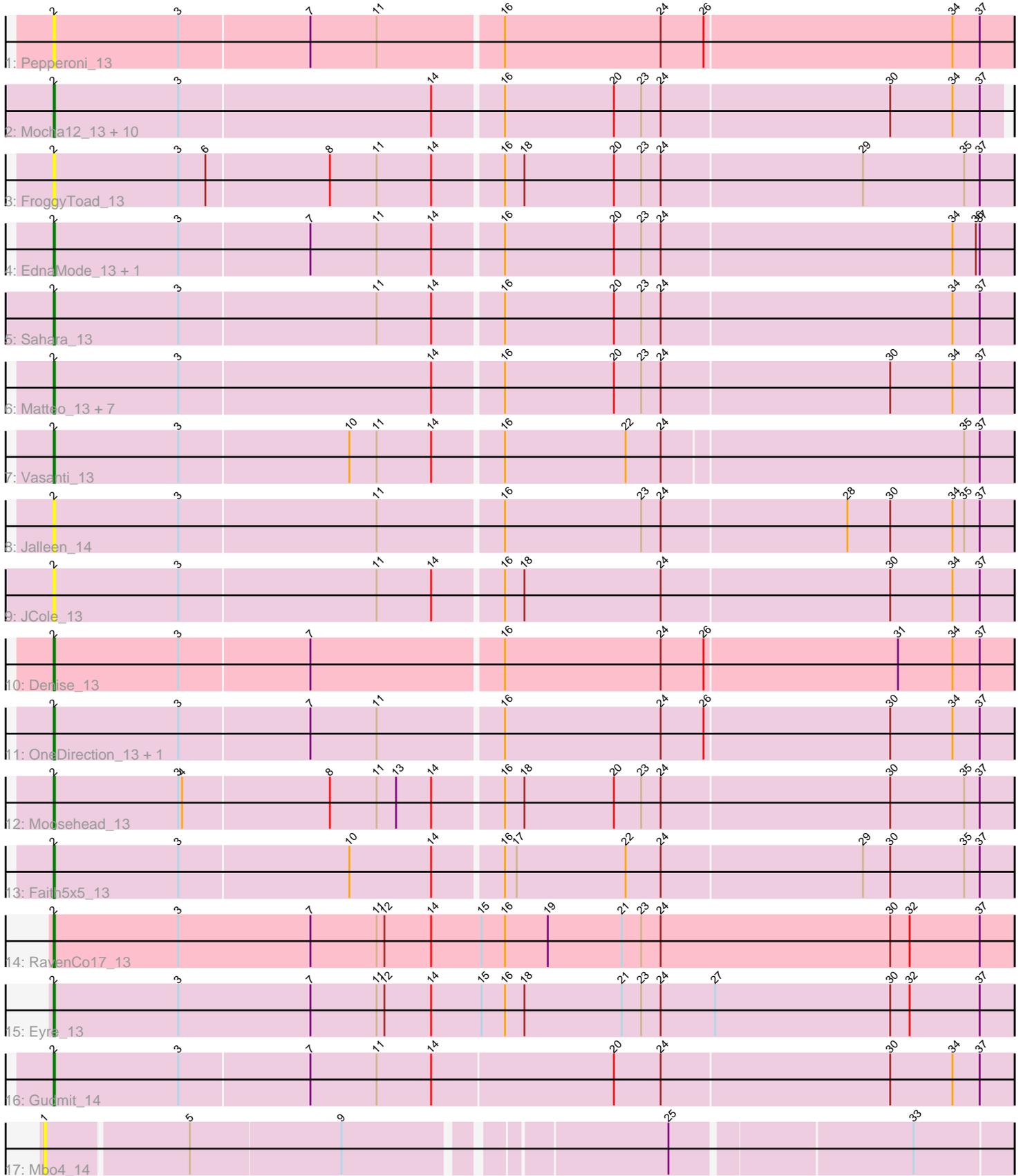


Pham 282336



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 282336 Report

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

Pham number 282336 has 36 members, 5 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 : FroggyToad_13
- Track 4 : EdnaMode_13, Lamberg_13
- Track 5 : Sahara_13
- Track 6 : Matteo_13, Bjanes7_13, Pickett_13, SoilAssassin_13, Nettuno_13, Yeet412_13, LordFarquaad_13, Attis_13
- Track 7 : Vasanti_13
- Track 8 : Jalleen_14
- Track 9 : JCole_13
- Track 10 : Denise_13
- Track 11 : OneDirection_13, Lton_13
- Track 12 : Moosehead_13
- Track 13 : Faith5x5_13
- Track 14 : RavenCo17_13
- Track 15 : Eyre_13
- Track 16 : Gudmit_14
- Track 17 : 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 31 of the 31 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, FroggyToad_13, GemG_13, Gizermo_13, Gudmit_14, Haley23_13, JCole_13, Jalleen_14, 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 36 (2.8%) 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 35 of 36 (97.2%) of genes in pham
- Manual Annotations of this start: 31 of 31
- 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), FroggyToad_13 (CZ2), GemG_13 (CZ2), Gizermo_13 (CZ2), Gudmit_14 (singleton), Haley23_13 (CZ2), JCole_13 (CZ2), Jalleen_14 (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 23 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 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: Bjaner7_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Bjaner7_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: Clap_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Clap_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Cynthia_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Cynthia_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Denise_13 Start: 8374, Stop: 9102, Start Num: 2

Candidate Starts for Denise_13:

(Start: 2 @8374 has 31 MA's), (3, 8470), (7, 8569), (16, 8713), (24, 8833), (26, 8866), (31, 9013), (34, 9055), (37, 9076),

Gene: Ebert_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Ebert_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: EdnaMode_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for EdnaMode_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (7, 8556), (11, 8607), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (34, 9042), (36, 9060), (37, 9063),

Gene: Eyre_13 Start: 9038, Stop: 9778, Start Num: 2

Candidate Starts for Eyre_13:

(Start: 2 @9038 has 31 MA's), (3, 9134), (7, 9236), (11, 9287), (12, 9293), (14, 9329), (15, 9368), (16, 9386), (18, 9401), (21, 9476), (23, 9491), (24, 9506), (27, 9548), (30, 9683), (32, 9698), (37, 9752),

Gene: Faith5x5_13 Start: 8333, Stop: 9061, Start Num: 2

Candidate Starts for Faith5x5_13:

(Start: 2 @8333 has 31 MA's), (3, 8429), (10, 8558), (14, 8621), (16, 8672), (17, 8681), (22, 8765), (24, 8792), (29, 8945), (30, 8966), (35, 9023), (37, 9035),

Gene: FroggyToad_13 Start: 8377, Stop: 9105, Start Num: 2

Candidate Starts for FroggyToad_13:

(Start: 2 @8377 has 31 MA's), (3, 8473), (6, 8494), (8, 8587), (11, 8623), (14, 8665), (16, 8716), (18, 8731), (20, 8800), (23, 8821), (24, 8836), (29, 8989), (35, 9067), (37, 9079),

Gene: GemG_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for GemG_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Gizermo_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Gizermo_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Gudmit_14 Start: 9147, Stop: 9878, Start Num: 2

Candidate Starts for Gudmit_14:

(Start: 2 @9147 has 31 MA's), (3, 9243), (7, 9342), (11, 9393), (14, 9435), (20, 9573), (24, 9609), (30, 9783), (34, 9831), (37, 9852),

Gene: Haley23_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Haley23_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: JCole_13 Start: 8428, Stop: 9156, Start Num: 2

Candidate Starts for JCole_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (11, 8674), (14, 8716), (16, 8767), (18, 8782), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Jalleen_14 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Jalleen_14:

(Start: 2 @8361 has 31 MA's), (3, 8457), (11, 8607), (16, 8700), (23, 8805), (24, 8820), (28, 8961), (30, 8994), (34, 9042), (35, 9051), (37, 9063),

Gene: Lamberg_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Lamberg_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (7, 8556), (11, 8607), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (34, 9042), (36, 9060), (37, 9063),

Gene: LordFarquaad_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for LordFarquaad_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: Lton_13 Start: 8390, Stop: 9118, Start Num: 2

Candidate Starts for Lton_13:

(Start: 2 @8390 has 31 MA's), (3, 8486), (7, 8585), (11, 8636), (16, 8729), (24, 8849), (26, 8882), (30, 9023), (34, 9071), (37, 9092),

Gene: Matteo_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Matteo_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: Mbo4_14 Start: 9106, Stop: 9801, Start Num: 1

Candidate Starts for Mbo4_14:

(1, 9106), (5, 9211), (9, 9325), (25, 9550), (33, 9727),

Gene: Mocha12_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Mocha12_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Moosehead_13 Start: 8336, Stop: 9064, Start Num: 2

Candidate Starts for Moosehead_13:

(Start: 2 @8336 has 31 MA's), (3, 8432), (4, 8435), (8, 8546), (11, 8582), (13, 8597), (14, 8624), (16, 8675), (18, 8690), (20, 8759), (23, 8780), (24, 8795), (30, 8969), (35, 9026), (37, 9038),

Gene: Nettuno_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Nettuno_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: OneDirection_13 Start: 8334, Stop: 9062, Start Num: 2

Candidate Starts for OneDirection_13:

(Start: 2 @8334 has 31 MA's), (3, 8430), (7, 8529), (11, 8580), (16, 8673), (24, 8793), (26, 8826), (30, 8967), (34, 9015), (37, 9036),

Gene: Pepperoni_13 Start: 8684, Stop: 9412, Start Num: 2

Candidate Starts for Pepperoni_13:

(Start: 2 @8684 has 31 MA's), (3, 8780), (7, 8879), (11, 8930), (16, 9023), (24, 9143), (26, 9176), (34, 9365), (37, 9386),

Gene: Pickett_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Pickett_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: RavenCo17_13 Start: 9219, Stop: 9959, Start Num: 2

Candidate Starts for RavenCo17_13:

(Start: 2 @9219 has 31 MA's), (3, 9315), (7, 9417), (11, 9468), (12, 9474), (14, 9510), (15, 9549), (16, 9567), (19, 9600), (21, 9657), (23, 9672), (24, 9687), (30, 9864), (32, 9879), (37, 9933),

Gene: Sahara_13 Start: 8445, Stop: 9173, Start Num: 2

Candidate Starts for Sahara_13:

(Start: 2 @8445 has 31 MA's), (3, 8541), (11, 8691), (14, 8733), (16, 8784), (20, 8868), (23, 8889), (24, 8904), (34, 9126), (37, 9147),

Gene: Savage_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Savage_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: SoilAssassin_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for SoilAssassin_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),

Gene: Sproutie_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Sproutie_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: TuertoX_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for TuertoX_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Vasanti_13 Start: 8380, Stop: 9105, Start Num: 2

Candidate Starts for Vasanti_13:

(Start: 2 @8380 has 31 MA's), (3, 8476), (10, 8605), (11, 8626), (14, 8668), (16, 8719), (22, 8812), (24, 8839), (35, 9067), (37, 9079),

Gene: Whiteclaw_13 Start: 8428, Stop: 9147, Start Num: 2

Candidate Starts for Whiteclaw_13:

(Start: 2 @8428 has 31 MA's), (3, 8524), (14, 8716), (16, 8767), (20, 8851), (23, 8872), (24, 8887), (30, 9061), (34, 9109), (37, 9130),

Gene: Yeet412_13 Start: 8361, Stop: 9089, Start Num: 2

Candidate Starts for Yeet412_13:

(Start: 2 @8361 has 31 MA's), (3, 8457), (14, 8649), (16, 8700), (20, 8784), (23, 8805), (24, 8820), (30, 8994), (34, 9042), (37, 9063),