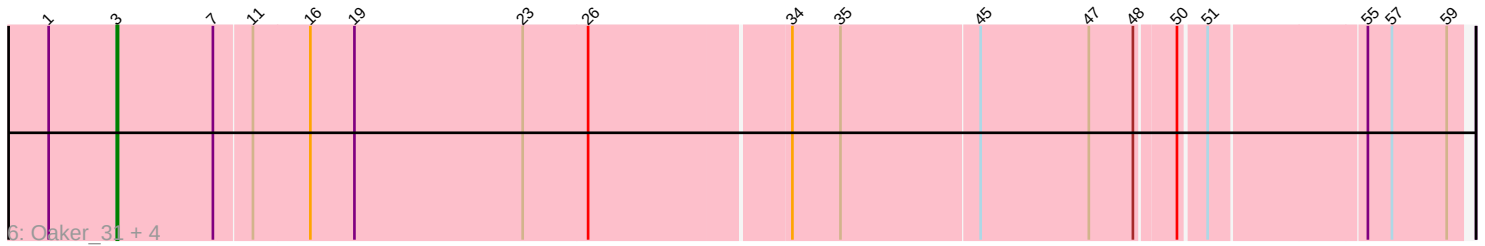
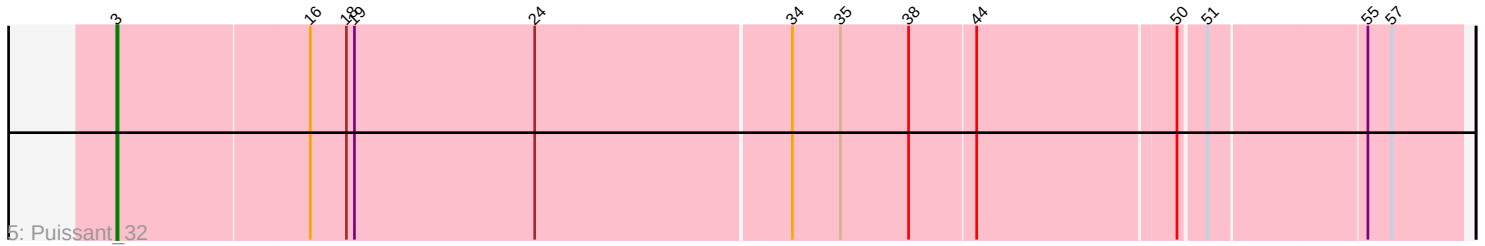
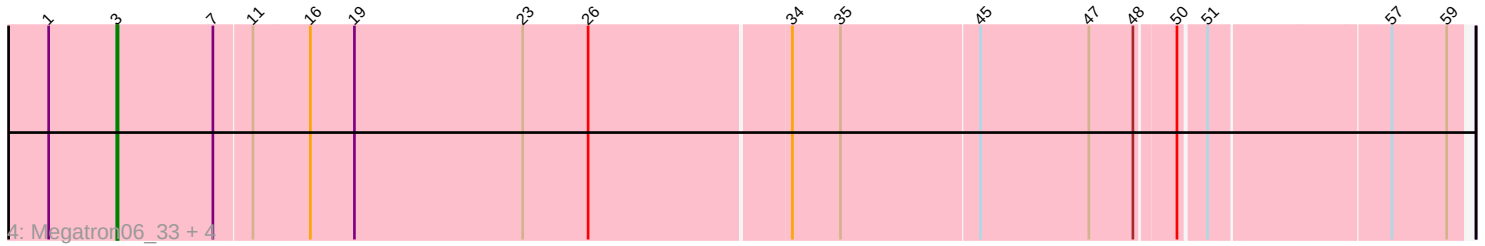
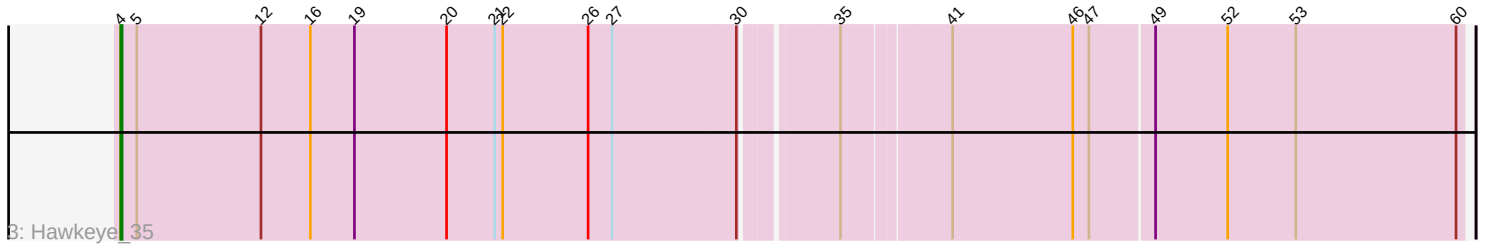
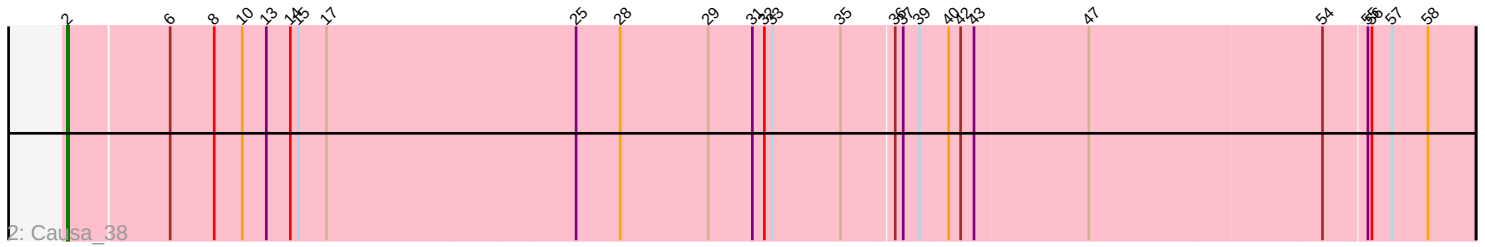
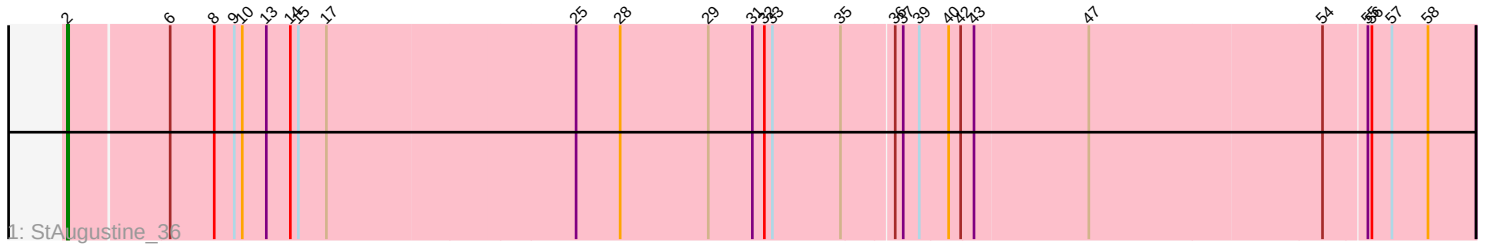


Pham 331381



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 331381 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331381 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : StAugustine_36
- Track 2 : Causa_38
- Track 3 : Hawkeye_35
- Track 4 : Megatron06_33, Nish23_32, Cborch11_32, Konstantine_36, Damien_31
- Track 5 : Puissant_32
- Track 6 : Oaker_31, BobtimousPrime_33, Phreeze_31, Thumb_31, Beckerton_31

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton_31, BobtimousPrime_33, Cborch11_32, Damien_31, Konstantine_36, Megatron06_33, Nish23_32, Oaker_31, Phreeze_31, Puissant_32, Thumb_31,

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

-

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

- Causa_38, Hawkeye_35, StAugustine_36,

Summary by start number:

Start 2:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Causa_38 (AI), StAugustine_36 (AI),

Start 3:

- Found in 11 of 14 (78.6%) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beckerton_31 (H1), BobtimousPrime_33 (H1), Cborch11_32 (H1), Damien_31 (H1), Konstantine_36 (H1), Megatron06_33 (H1), Nish23_32 (H1), Oaker_31 (H1), Phreeze_31 (H1), Puissant_32 (H1), Thumb_31 (H1),

Start 4:

- Found in 1 of 14 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hawkeye_35 (D2),

Summary by clusters:

There are 3 clusters represented in this pham: A1, H1, D2,

Info for manual annotations of cluster A1:

- Start number 2 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster D2:

- Start number 4 was manually annotated 1 time for cluster D2.

Info for manual annotations of cluster H1:

- Start number 3 was manually annotated 10 times for cluster H1.

Gene Information:

Gene: Beckerton_31 Start: 30267, Stop: 31232, Start Num: 3

Candidate Starts for Beckerton_31:

(1, 30216), (Start: 3 @30267 has 10 MA's), (7, 30339), (11, 30366), (16, 30408), (19, 30441), (23, 30567), (26, 30615), (34, 30756), (35, 30792), (45, 30894), (47, 30975), (48, 31008), (50, 31035), (51, 31053), (55, 31164), (57, 31182), (59, 31221),

Gene: BobtimousPrime_33 Start: 30187, Stop: 31152, Start Num: 3

Candidate Starts for BobtimousPrime_33:

(1, 30136), (Start: 3 @30187 has 10 MA's), (7, 30259), (11, 30286), (16, 30328), (19, 30361), (23, 30487), (26, 30535), (34, 30676), (35, 30712), (45, 30814), (47, 30895), (48, 30928), (50, 30955), (51, 30973), (55, 31084), (57, 31102), (59, 31141),

Gene: Causa_38 Start: 35766, Stop: 36791, Start Num: 2

Candidate Starts for Causa_38:

(Start: 2 @35766 has 2 MA's), (6, 35838), (8, 35871), (10, 35892), (13, 35910), (14, 35928), (15, 35934), (17, 35955), (25, 36135), (28, 36168), (29, 36234), (31, 36267), (32, 36276), (33, 36282), (35, 36333), (36, 36369), (37, 36375), (39, 36387), (40, 36408), (42, 36417), (43, 36426), (47, 36510), (54, 36681), (55, 36711), (56, 36714), (57, 36729), (58, 36756),

Gene: Cborch11_32 Start: 29729, Stop: 30697, Start Num: 3

Candidate Starts for Cborch11_32:

(1, 29678), (Start: 3 @29729 has 10 MA's), (7, 29801), (11, 29828), (16, 29870), (19, 29903), (23, 30029), (26, 30077), (34, 30221), (35, 30257), (45, 30359), (47, 30440), (48, 30473), (50, 30500), (51, 30518), (57, 30647), (59, 30686),

Gene: Damien_31 Start: 29730, Stop: 30698, Start Num: 3

Candidate Starts for Damien_31:

(1, 29679), (Start: 3 @29730 has 10 MA's), (7, 29802), (11, 29829), (16, 29871), (19, 29904), (23, 30030), (26, 30078), (34, 30222), (35, 30258), (45, 30360), (47, 30441), (48, 30474), (50, 30501), (51, 30519), (57, 30648), (59, 30687),

Gene: Hawkeye_35 Start: 28736, Stop: 29704, Start Num: 4

Candidate Starts for Hawkeye_35:

(Start: 4 @28736 has 1 MA's), (5, 28748), (12, 28841), (16, 28877), (19, 28910), (20, 28979), (21, 29015), (22, 29021), (26, 29084), (27, 29102), (30, 29192), (35, 29252), (41, 29327), (46, 29417), (47, 29429), (49, 29474), (52, 29528), (53, 29579), (60, 29699),

Gene: Konstantine_36 Start: 30931, Stop: 31899, Start Num: 3

Candidate Starts for Konstantine_36:

(1, 30880), (Start: 3 @30931 has 10 MA's), (7, 31003), (11, 31030), (16, 31072), (19, 31105), (23, 31231), (26, 31279), (34, 31423), (35, 31459), (45, 31561), (47, 31642), (48, 31675), (50, 31702), (51, 31720), (57, 31849), (59, 31888),

Gene: Megatron06_33 Start: 30263, Stop: 31231, Start Num: 3

Candidate Starts for Megatron06_33:

(1, 30212), (Start: 3 @30263 has 10 MA's), (7, 30335), (11, 30362), (16, 30404), (19, 30437), (23, 30563), (26, 30611), (34, 30755), (35, 30791), (45, 30893), (47, 30974), (48, 31007), (50, 31034), (51, 31052), (57, 31181), (59, 31220),

Gene: Nish23_32 Start: 29729, Stop: 30697, Start Num: 3

Candidate Starts for Nish23_32:

(1, 29678), (Start: 3 @29729 has 10 MA's), (7, 29801), (11, 29828), (16, 29870), (19, 29903), (23, 30029), (26, 30077), (34, 30221), (35, 30257), (45, 30359), (47, 30440), (48, 30473), (50, 30500), (51, 30518), (57, 30647), (59, 30686),

Gene: Oaker_31 Start: 29987, Stop: 30955, Start Num: 3

Candidate Starts for Oaker_31:

(1, 29936), (Start: 3 @29987 has 10 MA's), (7, 30059), (11, 30086), (16, 30128), (19, 30161), (23, 30287), (26, 30335), (34, 30479), (35, 30515), (45, 30617), (47, 30698), (48, 30731), (50, 30758), (51, 30776), (55, 30887), (57, 30905), (59, 30944),

Gene: Phreeze_31 Start: 29730, Stop: 30698, Start Num: 3

Candidate Starts for Phreeze_31:

(1, 29679), (Start: 3 @29730 has 10 MA's), (7, 29802), (11, 29829), (16, 29871), (19, 29904), (23, 30030), (26, 30078), (34, 30222), (35, 30258), (45, 30360), (47, 30441), (48, 30474), (50, 30501), (51, 30519), (55, 30630), (57, 30648), (59, 30687),

Gene: Puissant_32 Start: 30199, Stop: 31167, Start Num: 3

Candidate Starts for Puissant_32:

(Start: 3 @30199 has 10 MA's), (16, 30340), (18, 30367), (19, 30373), (24, 30508), (34, 30691), (35, 30727), (38, 30778), (44, 30826), (50, 30970), (51, 30988), (55, 31099), (57, 31117),

Gene: StAugustine_36 Start: 35781, Stop: 36806, Start Num: 2

Candidate Starts for StAugustine_36:

(Start: 2 @35781 has 2 MA's), (6, 35853), (8, 35886), (9, 35901), (10, 35907), (13, 35925), (14, 35943), (15, 35949), (17, 35970), (25, 36150), (28, 36183), (29, 36249), (31, 36282), (32, 36291), (33, 36297), (35, 36348), (36, 36384), (37, 36390), (39, 36402), (40, 36423), (42, 36432), (43, 36441), (47, 36525), (54, 36696), (55, 36726), (56, 36729), (57, 36744), (58, 36771),

Gene: Thumb_31 Start: 29730, Stop: 30695, Start Num: 3

Candidate Starts for Thumb_31:

(1, 29679), (Start: 3 @29730 has 10 MA's), (7, 29802), (11, 29829), (16, 29871), (19, 29904), (23, 30030), (26, 30078), (34, 30219), (35, 30255), (45, 30357), (47, 30438), (48, 30471), (50, 30498), (51, 30516), (55, 30627), (57, 30645), (59, 30684),