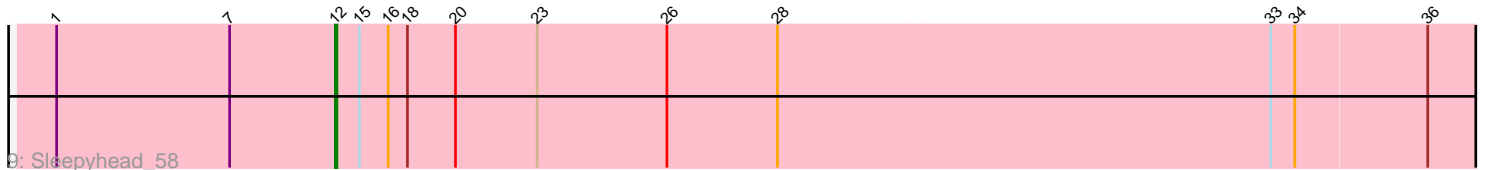
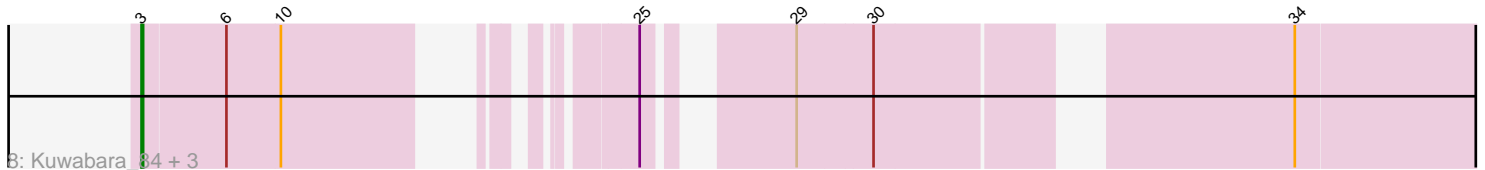
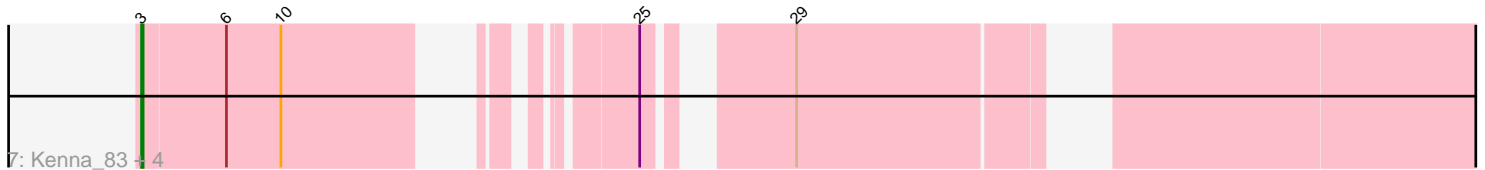
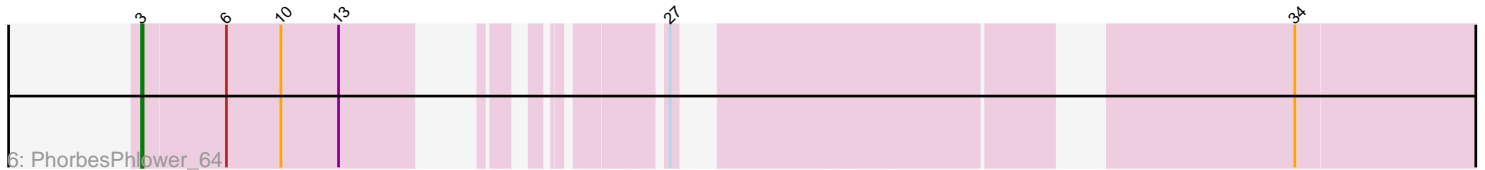
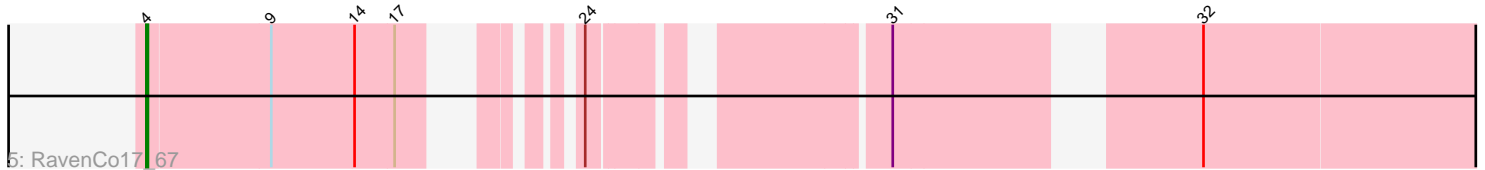
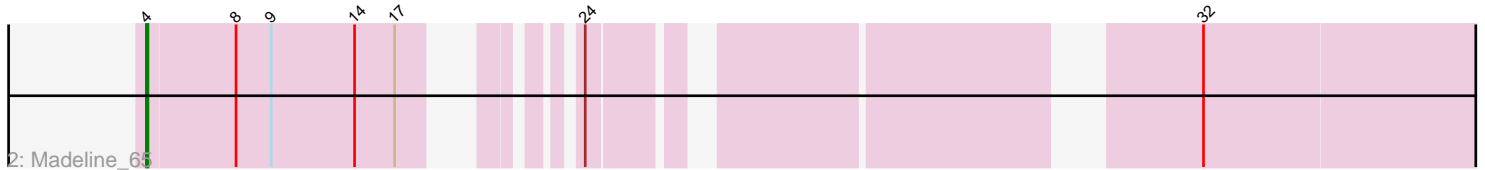
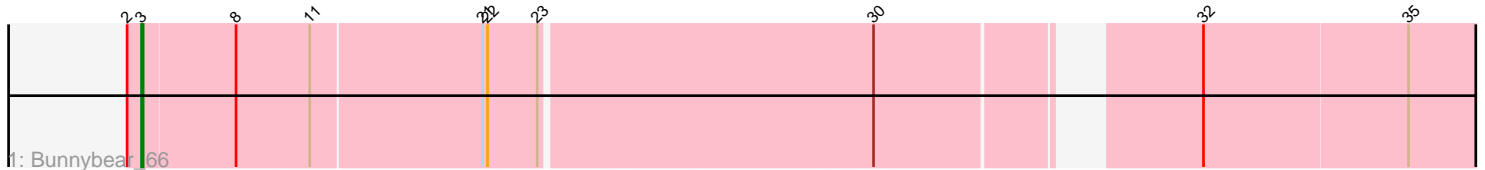


Pham 158228



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 158228 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158228 has 17 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bunnybear_66
- Track 2 : Madeline_65
- Track 3 : WelcomeAyanna_71, ThankyouJordi_71
- Track 4 : Maridalia_71
- Track 5 : RavenCo17_67
- Track 6 : PhorbesPhlower_64
- Track 7 : Kenna_83, Phabuloso_95, BENtherdunthat_88, Getalong_91, Lutum_89
- Track 8 : Kuwabara_84, Morkie_66, OneDirection_60, Lton_63
- Track 9 : Sleepyhead_58

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 14 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BENtherdunthat_88, Bunnybear_66, Getalong_91, Kenna_83, Kuwabara_84, Lton_63, Lutum_89, Maridalia_71, Morkie_66, OneDirection_60, Phabuloso_95, PhorbesPhlower_64, ThankyouJordi_71, WelcomeAyanna_71,

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

-

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

- Madeline_65, RavenCo17_67, Sleepyhead_58,

Summary by start number:

Start 3:

- Found in 14 of 17 (82.4%) of genes in pham
- Manual Annotations of this start: 14 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BENtherdunthat_88 (DN1), Bunnybear_66 (CZ), Getalong_91 (DN1), Kenna_83 (DN1), Kuwabara_84 (DN4),

Lton_63 (CZ), Lutum_89 (DN1), Maridalia_71 (CZ1), Morkie_66 (DH), OneDirection_60 (CZ6), Phabuloso_95 (DN1), PhorbesPhlower_64 (DH), ThankyouJordi_71 (CZ1), WelcomeAyanna_71 (CZ1),

Start 4:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Madeline_65 (CZ1), RavenCo17_67 (CZ8),

Start 12:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sleepyhead_58 (singleton),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, DH, DN4, CZ1, CZ6, CZ8, CZ, DN1,

Info for manual annotations of cluster CZ:

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

Info for manual annotations of cluster CZ1:

- Start number 3 was manually annotated 3 times for cluster CZ1.
- Start number 4 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ6:

- Start number 3 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ8:

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

Info for manual annotations of cluster DH:

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

Info for manual annotations of cluster DN1:

- Start number 3 was manually annotated 5 times for cluster DN1.

Info for manual annotations of cluster DN4:

- Start number 3 was manually annotated 1 time for cluster DN4.

Gene Information:

Gene: BENtherdunthat_88 Start: 48114, Stop: 48911, Start Num: 3

Candidate Starts for BENtherdunthat_88:

(Start: 3 @48114 has 14 MA's), (6, 48165), (10, 48198), (25, 48345), (29, 48411),

Gene: Bunnybear_66 Start: 46245, Stop: 47213, Start Num: 3

Candidate Starts for Bunnybear_66:

(2, 46236), (Start: 3 @46245 has 14 MA's), (8, 46302), (11, 46347), (21, 46452), (22, 46455), (23, 46485), (30, 46683), (32, 46848), (35, 46974),

Gene: Getalong_91 Start: 50569, Stop: 51366, Start Num: 3

Candidate Starts for Getalong_91:

(Start: 3 @50569 has 14 MA's), (6, 50620), (10, 50653), (25, 50800), (29, 50866),

Gene: Kenna_83 Start: 47387, Stop: 48184, Start Num: 3

Candidate Starts for Kenna_83:

(Start: 3 @47387 has 14 MA's), (6, 47438), (10, 47471), (25, 47618), (29, 47684),

Gene: Kuwabara_84 Start: 49956, Stop: 50762, Start Num: 3

Candidate Starts for Kuwabara_84:

(Start: 3 @49956 has 14 MA's), (6, 50007), (10, 50040), (25, 50187), (29, 50253), (30, 50298), (34, 50523),

Gene: Lton_63 Start: 37109, Stop: 37915, Start Num: 3

Candidate Starts for Lton_63:

(Start: 3 @37109 has 14 MA's), (6, 37160), (10, 37193), (25, 37340), (29, 37406), (30, 37451), (34, 37676),

Gene: Lutum_89 Start: 48549, Stop: 49346, Start Num: 3

Candidate Starts for Lutum_89:

(Start: 3 @48549 has 14 MA's), (6, 48600), (10, 48633), (25, 48780), (29, 48846),

Gene: Madeline_65 Start: 47024, Stop: 47905, Start Num: 4

Candidate Starts for Madeline_65:

(Start: 4 @47024 has 2 MA's), (8, 47078), (9, 47099), (14, 47150), (17, 47174), (24, 47234), (32, 47540),

Gene: Maridalia_71 Start: 46257, Stop: 47225, Start Num: 3

Candidate Starts for Maridalia_71:

(2, 46248), (Start: 3 @46257 has 14 MA's), (8, 46314), (11, 46359), (21, 46464), (22, 46467), (23, 46497), (30, 46695), (32, 46860),

Gene: Morkie_66 Start: 38257, Stop: 39063, Start Num: 3

Candidate Starts for Morkie_66:

(Start: 3 @38257 has 14 MA's), (6, 38308), (10, 38341), (25, 38488), (29, 38554), (30, 38599), (34, 38824),

Gene: OneDirection_60 Start: 35671, Stop: 36477, Start Num: 3

Candidate Starts for OneDirection_60:

(Start: 3 @35671 has 14 MA's), (6, 35722), (10, 35755), (25, 35902), (29, 35968), (30, 36013), (34, 36238),

Gene: Phabuloso_95 Start: 50041, Stop: 50838, Start Num: 3

Candidate Starts for Phabuloso_95:

(Start: 3 @50041 has 14 MA's), (6, 50092), (10, 50125), (25, 50272), (29, 50338),

Gene: PhorbesPhlower_64 Start: 37661, Stop: 38458, Start Num: 3

Candidate Starts for PhorbesPhlower_64:

(Start: 3 @37661 has 14 MA's), (6, 37712), (10, 37745), (13, 37781), (27, 37904), (34, 38228),

Gene: RavenCo17_67 Start: 46154, Stop: 47035, Start Num: 4

Candidate Starts for RavenCo17_67:

(Start: 4 @46154 has 2 MA's), (9, 46229), (14, 46280), (17, 46304), (24, 46364), (31, 46514), (32, 46670),

Gene: Sleepyhead_58 Start: 38152, Stop: 39009, Start Num: 12

Candidate Starts for Sleepyhead_58:

(1, 37978), (7, 38086), (Start: 12 @38152 has 1 MA's), (15, 38167), (16, 38185), (18, 38197), (20, 38227), (23, 38278), (26, 38359), (28, 38428), (33, 38734), (34, 38749), (36, 38830),

Gene: ThankyouJordi_71 Start: 48385, Stop: 49353, Start Num: 3

Candidate Starts for ThankyouJordi_71:

(2, 48376), (Start: 3 @48385 has 14 MA's), (5, 48403), (8, 48442), (19, 48568), (21, 48592), (23, 48625), (30, 48823), (32, 48988),

Gene: WelcomeAyanna_71 Start: 48532, Stop: 49500, Start Num: 3

Candidate Starts for WelcomeAyanna_71:

(2, 48523), (Start: 3 @48532 has 14 MA's), (5, 48550), (8, 48589), (19, 48715), (21, 48739), (23, 48772), (30, 48970), (32, 49135),