Pham 284206

1: Bunnybear_66
2: WelcomeAyanna_71 + 1
3: Madeline_65
4: Madavieve_67 + 1
5: RavenCo17_67
6: PhorbesPhlower_64
7: Kenna_83 + 5
8: Kuwabara_84 + 3
9: Zodiariah_64
10: Sleepyhead_58

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 284206 Report

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

Pham number 284206 has 20 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Bunnybear_66
• Track 2 : WelcomeAyanna_71, ThankyouJordi_71
• Track 3 : Madeline_65
• Track 4 : Madavieve_67, Maridalia_71
• Track 5 : RavenCo17_67
• Track 6 : PhorbesPhlower_64
• Track 7 : Kenna_83, Getalong_91, Phabuloso_95, BENtherdunthat_88, BotCity_90, Lutum_89
• Track 8 : Kuwabara_84, OneDirection_60, Morkie_66, Lton_63
• Track 9 : Zodiariah_64
• Track 10 : 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 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BENtherdunthat_88, BotCity_90, Bunnybear_66, Getalong_91, Kenna_83, Kuwabara_84, Lton_63, Lutum_89, Madavieve_67, Maridalia_71, Morkie_66, OneDirection_60, Phabuloso_95, PhorbesPhlower_64, ThankyouJordi_71, WelcomeAyanna_71, Zodiariah_64,

Genes that have the "Most Annotated" start but do not call it:
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Genes that do not have the "Most Annotated" start:
• Madeline_65, RavenCo17_67, Sleepyhead_58,

Summary by start number:

Start 3:
• Found in 17 of 20 (85.0%) of genes in pham
• Manual Annotations of this start: 16 of 19

• Called 100.0% of time when present
• Phage (with cluster) where this start called: BENtherdunthat_88 (DN1), BotCity_90 (DN), Bunnybear_66 (CZ), Getalong_91 (DN1), Kenna_83 (DN1), Kuwabara_84 (DN4), Lton_63 (CZ), Lutum_89 (DN1), Madavieve_67 (CZ1), Maridalia_71 (CZ1), Morkie_66 (DH), OneDirection_60 (CZ6), Phabuloso_95 (DN1), PhorbesPhlower_64 (DH), ThankyouJordi_71 (CZ1), WelcomeAyanna_71 (CZ1), Zodiariah_64 (DW),

Start 4:
• Found in 2 of 20 (10.0%) of genes in pham
• Manual Annotations of this start: 2 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Madeline_65 (CZ1), RavenCo17_67 (CZ8),

Start 11:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_58 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: DN, singleton, DH, DN4, CZ1, CZ6, CZ8, CZ, DN1, DW,

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 DN:
•Start number 3 was manually annotated 1 time for cluster DN.

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.

Info for manual annotations of cluster DW:
•Start number 3 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: BENtherdunthat_88 Start: 48114, Stop: 48911, Start Num: 3
Candidate Starts for BENtherdunthat_88:
(Start: 3 @48114 has 16 MA's), (7, 48165), (10, 48198), (26, 48345), (30, 48411),

Gene: BotCity_90 Start: 49643, Stop: 50440, Start Num: 3
Candidate Starts for BotCity_90:
(Start: 3 @49643 has 16 MA's), (7, 49694), (10, 49727), (26, 49874), (30, 49940),

Gene: Bunnybear_66 Start: 46245, Stop: 47213, Start Num: 3
Candidate Starts for Bunnybear_66:
(2, 46236), (Start: 3 @46245 has 16 MA's), (8, 46302), (12, 46347), (21, 46452), (22, 46455), (24, 46485), (31, 46683), (33, 46848), (36, 46974),

Gene: Getalong_91 Start: 50569, Stop: 51366, Start Num: 3
Candidate Starts for Getalong_91:
(Start: 3 @50569 has 16 MA's), (7, 50620), (10, 50653), (26, 50800), (30, 50866),

Gene: Kenna_83 Start: 47387, Stop: 48184, Start Num: 3
Candidate Starts for Kenna_83:
(Start: 3 @47387 has 16 MA's), (7, 47438), (10, 47471), (26, 47618), (30, 47684),

Gene: Kuwabara_84 Start: 49956, Stop: 50762, Start Num: 3
Candidate Starts for Kuwabara_84:
(Start: 3 @49956 has 16 MA's), (7, 50007), (10, 50040), (26, 50187), (30, 50253), (31, 50298), (35, 50523),

Gene: Lton_63 Start: 37109, Stop: 37915, Start Num: 3
Candidate Starts for Lton_63:
(Start: 3 @37109 has 16 MA's), (7, 37160), (10, 37193), (26, 37340), (30, 37406), (31, 37451), (35, 37676),

Gene: Lutum_89 Start: 48549, Stop: 49346, Start Num: 3
Candidate Starts for Lutum_89:
(Start: 3 @48549 has 16 MA's), (7, 48600), (10, 48633), (26, 48780), (30, 48846),

Gene: Madavieve_67 Start: 46377, Stop: 47345, Start Num: 3
Candidate Starts for Madavieve_67:
(2, 46368), (Start: 3 @46377 has 16 MA's), (8, 46434), (12, 46479), (21, 46584), (22, 46587), (24, 46617), (31, 46815), (33, 46980),

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), (17, 47150), (20, 47174), (25, 47234), (33, 47540),

Gene: Maridalia_71 Start: 46257, Stop: 47225, Start Num: 3
Candidate Starts for Maridalia_71:
(2, 46248), (Start: 3 @46257 has 16 MA's), (8, 46314), (12, 46359), (21, 46464), (22, 46467), (24, 46497), (31, 46695), (33, 46860),

Gene: Morkie_66 Start: 38257, Stop: 39063, Start Num: 3
Candidate Starts for Morkie_66:
(Start: 3 @38257 has 16 MA's), (7, 38308), (10, 38341), (26, 38488), (30, 38554), (31, 38599), (35, 38824),

Gene: OneDirection_60 Start: 35671, Stop: 36477, Start Num: 3
Candidate Starts for OneDirection_60:
(Start: 3 @35671 has 16 MA's), (7, 35722), (10, 35755), (26, 35902), (30, 35968), (31, 36013), (35, 36238),

Gene: Phabuloso_95 Start: 50041, Stop: 50838, Start Num: 3
Candidate Starts for Phabuloso_95:
(Start: 3 @50041 has 16 MA's), (7, 50092), (10, 50125), (26, 50272), (30, 50338),

Gene: PhorbesPhlower_64 Start: 37661, Stop: 38458, Start Num: 3
Candidate Starts for PhorbesPhlower_64:
(Start: 3 @37661 has 16 MA's), (7, 37712), (10, 37745), (15, 37781), (28, 37904), (35, 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), (17, 46280), (20, 46304), (25, 46364), (32, 46514), (33, 46670),

Gene: Sleepyhead_58 Start: 38152, Stop: 39009, Start Num: 11
Candidate Starts for Sleepyhead_58:
(1, 37978), (6, 38086), (Start: 11 @38152 has 1 MA's), (13, 38167), (14, 38185), (16, 38197), (18, 38227), (23, 38278), (27, 38359), (29, 38428), (34, 38734), (35, 38749), (37, 38830),

Gene: ThankyouJordi_71 Start: 48385, Stop: 49353, Start Num: 3
Candidate Starts for ThankyouJordi_71:
(2, 48376), (Start: 3 @48385 has 16 MA's), (5, 48403), (8, 48442), (19, 48568), (21, 48592), (24, 48625), (31, 48823), (33, 48988),

Gene: WelcomeAyanna_71 Start: 48532, Stop: 49500, Start Num: 3
Candidate Starts for WelcomeAyanna_71:
(2, 48523), (Start: 3 @48532 has 16 MA's), (5, 48550), (8, 48589), (19, 48715), (21, 48739), (24, 48772), (31, 48970), (33, 49135),

Gene: Zodiariah_64 Start: 47543, Stop: 48511, Start Num: 3
Candidate Starts for Zodiariah_64:
(2, 47534), (Start: 3 @47543 has 16 MA's), (5, 47561), (8, 47600), (19, 47726), (21, 47750), (22, 47753), (24, 47783), (31, 47981), (33, 48146),