Pham 345905


1: Popy_9 + 8
2: Meibysrarus_10 + 11
3: Madamato_10
4: LibertyBell_8
5: Miek_8 + 3
6: Thiqqums_8 + 2
7: Bing_8 + 2
8: Bing_9
9: Wigberry_9 + 1
10: Bing_10
11: Kardashian_8
12: ClubPenguin_8
13: Count_16
14: Pippin15_14

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 345905 Report

This analysis was run 11/14/26 on database version 672.

Pham number 345905 has 41 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Popy_9, DrGrey_9, TonyStarch_10, OlympicHelado_10, FrodoSwaggins_9, TieDye_9, Namo_10, Espio_9, Rima_10
• Track 2 : Meibysrarus_10, CherryBlossom_10, HazuAndZazu_9, Spectropatronm_10, Indigenous_10, FidgetOrca_10, Maya_10, Jaylociraptor_10, IceWarrior_10, Hoshi_10, Soshi_9, Esketit_10
• Track 3 : Madamato_10
• Track 4 : LibertyBell_8
• Track 5 : Miek_8, Regigigas_8, SendItCS_8, FromIndy_8
• Track 6 : Thiqqums_8, CricKo_8, Rainydai_8
• Track 7 : Bing_8, Wigberry_8, Hajile_9
• Track 8 : Bing_9
• Track 9 : Wigberry_9, Hajile_10
• Track 10 : Bing_10
• Track 11 : Kardashian_8
• Track 12 : ClubPenguin_8
• Track 13 : Count_16
• Track 14 : Pippin15_14

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bing_8, CherryBlossom_10, DrGrey_9, Esketit_10, Espio_9, FidgetOrca_10, FrodoSwaggins_9, Hajile_9, HazuAndZazu_9, Hoshi_10, IceWarrior_10, Indigenous_10, Jaylociraptor_10, Madamato_10, Maya_10, Meibysrarus_10, Namo_10, OlympicHelado_10, Pippin15_14, Popy_9, Rima_10, Soshi_9, Spectropatronm_10, TieDye_9, TonyStarch_10, Wigberry_8,

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:

• Bing_10, Bing_9, ClubPenguin_8, Count_16, CricKo_8, FromIndy_8, Hajile_10, Kardashian_8, LibertyBell_8, Miek_8, Rainydai_8, Regigigas_8, SendItCS_8, Thiqqums_8, Wigberry_9,

Summary by start number:

Start 1:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ClubPenguin_8 (BI7),

Start 4:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bing_10 (BI5),

Start 5:
• Found in 2 of 41 (4.9%) of genes in pham
• Manual Annotations of this start: 2 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kardashian_8 (BI6), LibertyBell_8 (BI3),

Start 6:
• Found in 7 of 41 (17.1%) of genes in pham
• Manual Annotations of this start: 5 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CricKo_8 (BI4), FromIndy_8 (BI4), Miek_8 (BI4), Rainydai_8 (BI4), Regigigas_8 (BI4), SendItCS_8 (BI4), Thiqqums_8 (BI4),

Start 7:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Count_16 (EL),

Start 9:
• Found in 26 of 41 (63.4%) of genes in pham
• Manual Annotations of this start: 25 of 37
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bing_8 (BI5), CherryBlossom_10 (BI1), DrGrey_9 (BI1), Esketit_10 (BI1), Espio_9 (BI1), FidgetOrca_10 (BI1), FrodoSwaggins_9 (BI1), Hajile_9 (BI5), HazuAndZazu_9 (BI1), Hoshi_10 (BI1), IceWarrior_10 (BI1), Indigenous_10 (BI1), Jaylociraptor_10 (BI1), Madamato_10 (BI1), Maya_10 (BI1), Meibysrarus_10 (BI1), Namo_10 (BI1), OlympicHelado_10 (BI1), Pippin15_14 (JA), Popy_9 (BI1), Rima_10 (BI1), Soshi_9 (BI1), Spectropatronm_10 (BI1), TieDye_9 (BI1), TonyStarch_10 (BI1), Wigberry_8 (BI5),

Start 10:
• Found in 3 of 41 (7.3%) of genes in pham
• Manual Annotations of this start: 2 of 37

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bing_9 (BI5), Hajile_10 (BI5), Wigberry_9 (BI5),

Summary by clusters:

There are 8 clusters represented in this pham: EL, BI3, BI6, BI7, BI4, BI5, JA, BI1,

Info for manual annotations of cluster BI1:
•Start number 9 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI3:
•Start number 5 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:
•Start number 6 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:
•Start number 4 was manually annotated 1 time for cluster BI5.
•Start number 9 was manually annotated 2 times for cluster BI5.
•Start number 10 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI6:
•Start number 5 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:
•Start number 1 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster EL:
•Start number 7 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster JA:
•Start number 9 was manually annotated 1 time for cluster JA.

Gene Information:

Gene: Bing_8 Start: 4569, Stop: 4931, Start Num: 9
Candidate Starts for Bing_8:
(Start: 9 @4569 has 25 MA's), (12, 4605), (15, 4656), (21, 4707), (24, 4728),

Gene: Bing_9 Start: 4934, Stop: 5356, Start Num: 10
Candidate Starts for Bing_9:
(Start: 10 @4934 has 2 MA's), (12, 4967), (25, 5087), (27, 5144), (31, 5189), (34, 5219), (38, 5273),

Gene: Bing_10 Start: 5375, Stop: 5869, Start Num: 4
Candidate Starts for Bing_10:
(Start: 4 @5375 has 1 MA's), (12, 5441), (18, 5498), (33, 5678), (39, 5780), (41, 5843),

Gene: CherryBlossom_10 Start: 5973, Stop: 6326, Start Num: 9
Candidate Starts for CherryBlossom_10:
(Start: 9 @5973 has 25 MA's), (12, 6009), (20, 6099), (25, 6147),

Gene: ClubPenguin_8 Start: 5706, Stop: 6251, Start Num: 1
Candidate Starts for ClubPenguin_8:
(Start: 1 @5706 has 1 MA's), (2, 5757), (3, 5760), (12, 5862), (25, 5982), (30, 6081), (38, 6168),

Gene: Count_16 Start: 8567, Stop: 9079, Start Num: 7
Candidate Starts for Count_16:
(Start: 7 @8567 has 1 MA's), (8, 8573), (12, 8621), (13, 8654), (26, 8795), (36, 8951),

Gene: CricKo_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for CricKo_8:
(Start: 6 @5150 has 5 MA's), (12, 5204), (16, 5264), (19, 5291), (23, 5315), (29, 5399), (35, 5489),

Gene: DrGrey_9 Start: 5660, Stop: 6013, Start Num: 9
Candidate Starts for DrGrey_9:
(Start: 9 @5660 has 25 MA's), (12, 5696), (17, 5762), (20, 5786), (22, 5807),

Gene: Esketit_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Esketit_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Espio_9 Start: 5661, Stop: 6014, Start Num: 9
Candidate Starts for Espio_9:
(Start: 9 @5661 has 25 MA's), (12, 5697), (17, 5763), (20, 5787), (22, 5808),

Gene: FidgetOrca_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for FidgetOrca_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: FrodoSwaggins_9 Start: 5660, Stop: 6013, Start Num: 9
Candidate Starts for FrodoSwaggins_9:
(Start: 9 @5660 has 25 MA's), (12, 5696), (17, 5762), (20, 5786), (22, 5807),

Gene: FromIndy_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for FromIndy_8:
(Start: 6 @5150 has 5 MA's), (12, 5204),

Gene: Hajile_9 Start: 4565, Stop: 4927, Start Num: 9
Candidate Starts for Hajile_9:
(Start: 9 @4565 has 25 MA's), (12, 4601), (15, 4652), (21, 4703), (24, 4724),

Gene: Hajile_10 Start: 4930, Stop: 5355, Start Num: 10
Candidate Starts for Hajile_10:
(Start: 10 @4930 has 2 MA's), (12, 4963), (25, 5083), (28, 5143), (38, 5272),

Gene: HazuAndZazu_9 Start: 5660, Stop: 6013, Start Num: 9
Candidate Starts for HazuAndZazu_9:
(Start: 9 @5660 has 25 MA's), (12, 5696), (20, 5786), (25, 5834),

Gene: Hoshi_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Hoshi_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: IceWarrior_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for IceWarrior_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Indigenous_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Indigenous_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Jaylociraptor_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Jaylociraptor_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Kardashian_8 Start: 5144, Stop: 5656, Start Num: 5
Candidate Starts for Kardashian_8:
(Start: 5 @5144 has 2 MA's), (12, 5198), (14, 5234), (25, 5357), (38, 5573), (40, 5651),

Gene: LibertyBell_8 Start: 4509, Stop: 4946, Start Num: 5
Candidate Starts for LibertyBell_8:
(Start: 5 @4509 has 2 MA's), (12, 4563), (25, 4677), (28, 4734), (32, 4797), (40, 4941),

Gene: Madamato_10 Start: 5949, Stop: 6302, Start Num: 9
Candidate Starts for Madamato_10:
(Start: 9 @5949 has 25 MA's), (12, 5985), (17, 6051), (20, 6075), (22, 6096),

Gene: Maya_10 Start: 5964, Stop: 6317, Start Num: 9
Candidate Starts for Maya_10:
(Start: 9 @5964 has 25 MA's), (12, 6000), (20, 6090), (25, 6138),

Gene: Meibysrarus_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Meibysrarus_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Miek_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for Miek_8:
(Start: 6 @5150 has 5 MA's), (12, 5204),

Gene: Namo_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Namo_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (17, 6058), (20, 6082), (22, 6103),

Gene: OlympicHelado_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for OlympicHelado_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (17, 6058), (20, 6082), (22, 6103),

Gene: Pippin15_14 Start: 9692, Stop: 10120, Start Num: 9
Candidate Starts for Pippin15_14:
(Start: 9 @9692 has 25 MA's), (11, 9725), (12, 9734), (37, 10055),

Gene: Popy_9 Start: 5660, Stop: 6013, Start Num: 9
Candidate Starts for Popy_9:
(Start: 9 @5660 has 25 MA's), (12, 5696), (17, 5762), (20, 5786), (22, 5807),

Gene: Rainydai_8 Start: 5150, Stop: 5542, Start Num: 6

Candidate Starts for Rainydai_8:
(Start: 6 @5150 has 5 MA's), (12, 5204), (16, 5264), (19, 5291), (23, 5315), (29, 5399), (35, 5489),

Gene: Regigigas_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for Regigigas_8:
(Start: 6 @5150 has 5 MA's), (12, 5204),

Gene: Rima_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Rima_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (17, 6058), (20, 6082), (22, 6103),

Gene: SendItCS_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for SendItCS_8:
(Start: 6 @5150 has 5 MA's), (12, 5204),

Gene: Soshi_9 Start: 5660, Stop: 6013, Start Num: 9
Candidate Starts for Soshi_9:
(Start: 9 @5660 has 25 MA's), (12, 5696), (20, 5786), (25, 5834),

Gene: Spectropatronm_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for Spectropatronm_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (20, 6082), (25, 6130),

Gene: Thiqqums_8 Start: 5150, Stop: 5542, Start Num: 6
Candidate Starts for Thiqqums_8:
(Start: 6 @5150 has 5 MA's), (12, 5204), (16, 5264), (19, 5291), (23, 5315), (29, 5399), (35, 5489),

Gene: TieDye_9 Start: 5666, Stop: 6019, Start Num: 9
Candidate Starts for TieDye_9:
(Start: 9 @5666 has 25 MA's), (12, 5702), (17, 5768), (20, 5792), (22, 5813),

Gene: TonyStarch_10 Start: 5956, Stop: 6309, Start Num: 9
Candidate Starts for TonyStarch_10:
(Start: 9 @5956 has 25 MA's), (12, 5992), (17, 6058), (20, 6082), (22, 6103),

Gene: Wigberry_9 Start: 4930, Stop: 5355, Start Num: 10
Candidate Starts for Wigberry_9:
(Start: 10 @4930 has 2 MA's), (12, 4963), (25, 5083), (28, 5143), (38, 5272),

Gene: Wigberry_8 Start: 4565, Stop: 4927, Start Num: 9
Candidate Starts for Wigberry_8:
(Start: 9 @4565 has 25 MA's), (12, 4601), (15, 4652), (21, 4703), (24, 4724),