Pham 345999


1: Maupel_21 + 8
2: Patelgo_18 + 1
3: Karp_17 + 4
4: Beuffert_16
5: SeresaTree_17 + 1
6: Annadreamy_17 + 1
7: Blueeyedbeauty_19
8: Belfort_19
9: TunaTartare_16
10: Francob_17
11: Sham_15
12: BillNye_14 + 2
13: Muntaha_14
14: Wakanda_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 345999 Report

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

Pham number 345999 has 31 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Maupel_21, Phredrick_19, DeluluLabubu_19, Kenrey_21, Forrest_21, Gilson_21, Emma1919_21, MeganTheeKilla_19, Jada_19
• Track 2 : Patelgo_18, Moab_18
• Track 3 : Karp_17, Westy_18, Comrade_18, SparkleGoddess_18, Stigma_18
• Track 4 : Beuffert_16
• Track 5 : SeresaTree_17, Faust_17
• Track 6 : Annadreamy_17, Limpid_17
• Track 7 : Blueeyedbeauty_19
• Track 8 : Belfort_19
• Track 9 : TunaTartare_16
• Track 10 : Francob_17
• Track 11 : Sham_15
• Track 12 : BillNye_14, Circinus_16, Chaewon_18
• Track 13 : Muntaha_14
• Track 14 : Wakanda_14

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

The start number called the most often in the published annotations is 4, it was called in 24 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_17, Belfort_19, Beuffert_16, Blueeyedbeauty_19, Comrade_18, DeluluLabubu_19, Emma1919_21, Faust_17, Forrest_21, Francob_17, Gilson_21, Jada_19, Karp_17, Kenrey_21, Limpid_17, Maupel_21, MeganTheeKilla_19, Moab_18, Patelgo_18, Phredrick_19, SeresaTree_17, Sham_15, SparkleGoddess_18, Stigma_18, TunaTartare_16, Westy_18,

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:
• BillNye_14, Chaewon_18, Circinus_16, Muntaha_14, Wakanda_14,

Summary by start number:

Start 4:
• Found in 26 of 31 (83.9%) of genes in pham
• Manual Annotations of this start: 24 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_17 (BK1), Belfort_19 (BK1), Beuffert_16 (BK1), Blueeyedbeauty_19 (BK1), Comrade_18 (BK1), DeluluLababu_19 (BK1), Emma1919_21 (BK1), Faust_17 (BK1), Forrest_21 (BK1), Francob_17 (BK1), Gilson_21 (BK1), Jada_19 (BK1), Karp_17 (BK1), Kenrey_21 (BK1), Limpid_17 (BK1), Maupel_21 (BK1), MeganTheeKilla_19 (BK1), Moab_18 (BK1), Patelgo_18 (BK1), Phredrick_19 (BK1), SeresaTree_17 (BK1), Sham_15 (BK1), SparkleGoddess_18 (BK1), Stigma_18 (BK1), TunaTartare_16 (BK1), Westy_18 (BK1),

Start 5:
• Found in 5 of 31 (16.1%) of genes in pham
• Manual Annotations of this start: 5 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_14 (BK2), Chaewon_18 (BK2), Circinus_16 (BK2), Muntaha_14 (BK2), Wakanda_14 (BK2),

Summary by clusters:

There are 2 clusters represented in this pham: BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 4 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 5 was manually annotated 5 times for cluster BK2.

Gene Information:

Gene: Annadreamy_17 Start: 5520, Stop: 4855, Start Num: 4
Candidate Starts for Annadreamy_17:
(Start: 4 @5520 has 24 MA's), (9, 5457), (10, 5454), (11, 5355), (12, 5343), (13, 5334), (18, 5286), (21, 5040), (24, 4980), (25, 4956), (27, 4914),

Gene: Belfort_19 Start: 6267, Stop: 5572, Start Num: 4
Candidate Starts for Belfort_19:
(Start: 4 @6267 has 24 MA's), (10, 6201), (13, 6081), (15, 6063), (19, 5820), (21, 5757), (22, 5718), (25, 5673), (27, 5631),

Gene: Beuffert_16 Start: 5170, Stop: 4496, Start Num: 4
Candidate Starts for Beuffert_16:
(Start: 4 @5170 has 24 MA's), (8, 5110), (9, 5107), (10, 5104), (11, 5005), (12, 4993), (13, 4984), (18, 4936), (25, 4597), (29, 4510),

Gene: BillNye_14 Start: 5976, Stop: 5308, Start Num: 5
Candidate Starts for BillNye_14:

(3, 5982), (Start: 5 @5976 has 5 MA's), (6, 5946), (7, 5943), (16, 5790), (23, 5439), (26, 5382), (28, 5322),

Gene: Blueeyedbeauty_19 Start: 6014, Stop: 5340, Start Num: 4
Candidate Starts for Blueeyedbeauty_19:
(Start: 4 @6014 has 24 MA's), (10, 5948), (11, 5849), (12, 5837), (13, 5828), (18, 5780), (21, 5525), (24, 5465), (25, 5441), (27, 5399), (29, 5354),

Gene: Chaewon_18 Start: 5756, Stop: 5088, Start Num: 5
Candidate Starts for Chaewon_18:
(3, 5762), (Start: 5 @5756 has 5 MA's), (6, 5726), (7, 5723), (16, 5570), (23, 5219), (26, 5162), (28, 5102),

Gene: Circinus_16 Start: 6116, Stop: 5448, Start Num: 5
Candidate Starts for Circinus_16:
(3, 6122), (Start: 5 @6116 has 5 MA's), (6, 6086), (7, 6083), (16, 5930), (23, 5579), (26, 5522), (28, 5462),

Gene: Comrade_18 Start: 5882, Stop: 5187, Start Num: 4
Candidate Starts for Comrade_18:
(Start: 4 @5882 has 24 MA's), (10, 5816), (13, 5696), (15, 5678), (19, 5435), (21, 5372), (22, 5333), (24, 5312), (25, 5288), (27, 5246),

Gene: DeluluLabubu_19 Start: 5765, Stop: 5076, Start Num: 4
Candidate Starts for DeluluLabubu_19:
(Start: 4 @5765 has 24 MA's), (10, 5699), (11, 5600), (13, 5579), (14, 5570), (16, 5558), (22, 5222), (24, 5201), (25, 5177), (27, 5135),

Gene: Emma1919_21 Start: 6460, Stop: 5771, Start Num: 4
Candidate Starts for Emma1919_21:
(Start: 4 @6460 has 24 MA's), (10, 6394), (11, 6295), (13, 6274), (14, 6265), (16, 6253), (22, 5917), (24, 5896), (25, 5872), (27, 5830),

Gene: Faust_17 Start: 5779, Stop: 5114, Start Num: 4
Candidate Starts for Faust_17:
(Start: 4 @5779 has 24 MA's), (10, 5713), (13, 5590), (17, 5557), (22, 5260), (24, 5239), (25, 5215), (27, 5173), (29, 5128),

Gene: Forrest_21 Start: 6584, Stop: 5895, Start Num: 4
Candidate Starts for Forrest_21:
(Start: 4 @6584 has 24 MA's), (10, 6518), (11, 6419), (13, 6398), (14, 6389), (16, 6377), (22, 6041), (24, 6020), (25, 5996), (27, 5954),

Gene: Francob_17 Start: 5376, Stop: 4711, Start Num: 4
Candidate Starts for Francob_17:
(Start: 4 @5376 has 24 MA's), (10, 5310), (13, 5190), (19, 4959), (22, 4857), (25, 4812), (27, 4770),

Gene: Gilson_21 Start: 6413, Stop: 5724, Start Num: 4
Candidate Starts for Gilson_21:
(Start: 4 @6413 has 24 MA's), (10, 6347), (11, 6248), (13, 6227), (14, 6218), (16, 6206), (22, 5870), (24, 5849), (25, 5825), (27, 5783),

Gene: Jada_19 Start: 5765, Stop: 5076, Start Num: 4

Candidate Starts for Jada_19:
(Start: 4 @5765 has 24 MA's), (10, 5699), (11, 5600), (13, 5579), (14, 5570), (16, 5558), (22, 5222), (24, 5201), (25, 5177), (27, 5135),

Gene: Karp_17 Start: 5483, Stop: 4788, Start Num: 4
Candidate Starts for Karp_17:
(Start: 4 @5483 has 24 MA's), (10, 5417), (13, 5297), (15, 5279), (19, 5036), (21, 4973), (22, 4934), (24, 4913), (25, 4889), (27, 4847),

Gene: Kenrey_21 Start: 6465, Stop: 5776, Start Num: 4
Candidate Starts for Kenrey_21:
(Start: 4 @6465 has 24 MA's), (10, 6399), (11, 6300), (13, 6279), (14, 6270), (16, 6258), (22, 5922), (24, 5901), (25, 5877), (27, 5835),

Gene: Limpid_17 Start: 5519, Stop: 4854, Start Num: 4
Candidate Starts for Limpid_17:
(Start: 4 @5519 has 24 MA's), (9, 5456), (10, 5453), (11, 5354), (12, 5342), (13, 5333), (18, 5285), (21, 5039), (24, 4979), (25, 4955), (27, 4913),

Gene: Maupel_21 Start: 6413, Stop: 5724, Start Num: 4
Candidate Starts for Maupel_21:
(Start: 4 @6413 has 24 MA's), (10, 6347), (11, 6248), (13, 6227), (14, 6218), (16, 6206), (22, 5870), (24, 5849), (25, 5825), (27, 5783),

Gene: MeganTheeKilla_19 Start: 5774, Stop: 5085, Start Num: 4
Candidate Starts for MeganTheeKilla_19:
(Start: 4 @5774 has 24 MA's), (10, 5708), (11, 5609), (13, 5588), (14, 5579), (16, 5567), (22, 5231), (24, 5210), (25, 5186), (27, 5144),

Gene: Moab_18 Start: 5925, Stop: 5257, Start Num: 4
Candidate Starts for Moab_18:
(Start: 4 @5925 has 24 MA's), (13, 5736), (18, 5688), (19, 5505), (25, 5358), (27, 5316), (29, 5271),

Gene: Muntaha_14 Start: 5640, Stop: 4978, Start Num: 5
Candidate Starts for Muntaha_14:
(3, 5649), (Start: 5 @5640 has 5 MA's), (16, 5460), (17, 5448), (20, 5208), (23, 5109), (26, 5052), (28, 4992),

Gene: Patelgo_18 Start: 5539, Stop: 4871, Start Num: 4
Candidate Starts for Patelgo_18:
(Start: 4 @5539 has 24 MA's), (13, 5350), (18, 5302), (19, 5119), (25, 4972), (27, 4930), (29, 4885),

Gene: Phredrick_19 Start: 5671, Stop: 4982, Start Num: 4
Candidate Starts for Phredrick_19:
(Start: 4 @5671 has 24 MA's), (10, 5605), (11, 5506), (13, 5485), (14, 5476), (16, 5464), (22, 5128), (24, 5107), (25, 5083), (27, 5041),

Gene: SeresaTree_17 Start: 5169, Stop: 4504, Start Num: 4
Candidate Starts for SeresaTree_17:
(Start: 4 @5169 has 24 MA's), (10, 5103), (13, 4980), (17, 4947), (22, 4650), (24, 4629), (25, 4605), (27, 4563), (29, 4518),

Gene: Sham_15 Start: 4962, Stop: 4297, Start Num: 4

Candidate Starts for Sham_15:
(Start: 4 @4962 has 24 MA's), (10, 4896), (13, 4773), (17, 4740), (22, 4443), (25, 4398), (27, 4356), (29, 4311),

Gene: SparkleGoddess_18 Start: 5881, Stop: 5186, Start Num: 4
Candidate Starts for SparkleGoddess_18:
(Start: 4 @5881 has 24 MA's), (10, 5815), (13, 5695), (15, 5677), (19, 5434), (21, 5371), (22, 5332), (24, 5311), (25, 5287), (27, 5245),

Gene: Stigma_18 Start: 5885, Stop: 5190, Start Num: 4
Candidate Starts for Stigma_18:
(Start: 4 @5885 has 24 MA's), (10, 5819), (13, 5699), (15, 5681), (19, 5438), (21, 5375), (22, 5336), (24, 5315), (25, 5291), (27, 5249),

Gene: TunaTartare_16 Start: 5243, Stop: 4578, Start Num: 4
Candidate Starts for TunaTartare_16:
(Start: 4 @5243 has 24 MA's), (10, 5177), (12, 5063), (13, 5054), (17, 5021), (22, 4724), (25, 4679), (27, 4637), (29, 4592),

Gene: Wakanda_14 Start: 5797, Stop: 5135, Start Num: 5
Candidate Starts for Wakanda_14:
(1, 5881), (2, 5872), (3, 5806), (Start: 5 @5797 has 5 MA's), (16, 5617), (17, 5605), (20, 5365), (23, 5266), (26, 5209), (28, 5149),

Gene: Westy_18 Start: 5885, Stop: 5190, Start Num: 4
Candidate Starts for Westy_18:
(Start: 4 @5885 has 24 MA's), (10, 5819), (13, 5699), (15, 5681), (19, 5438), (21, 5375), (22, 5336), (24, 5315), (25, 5291), (27, 5249),