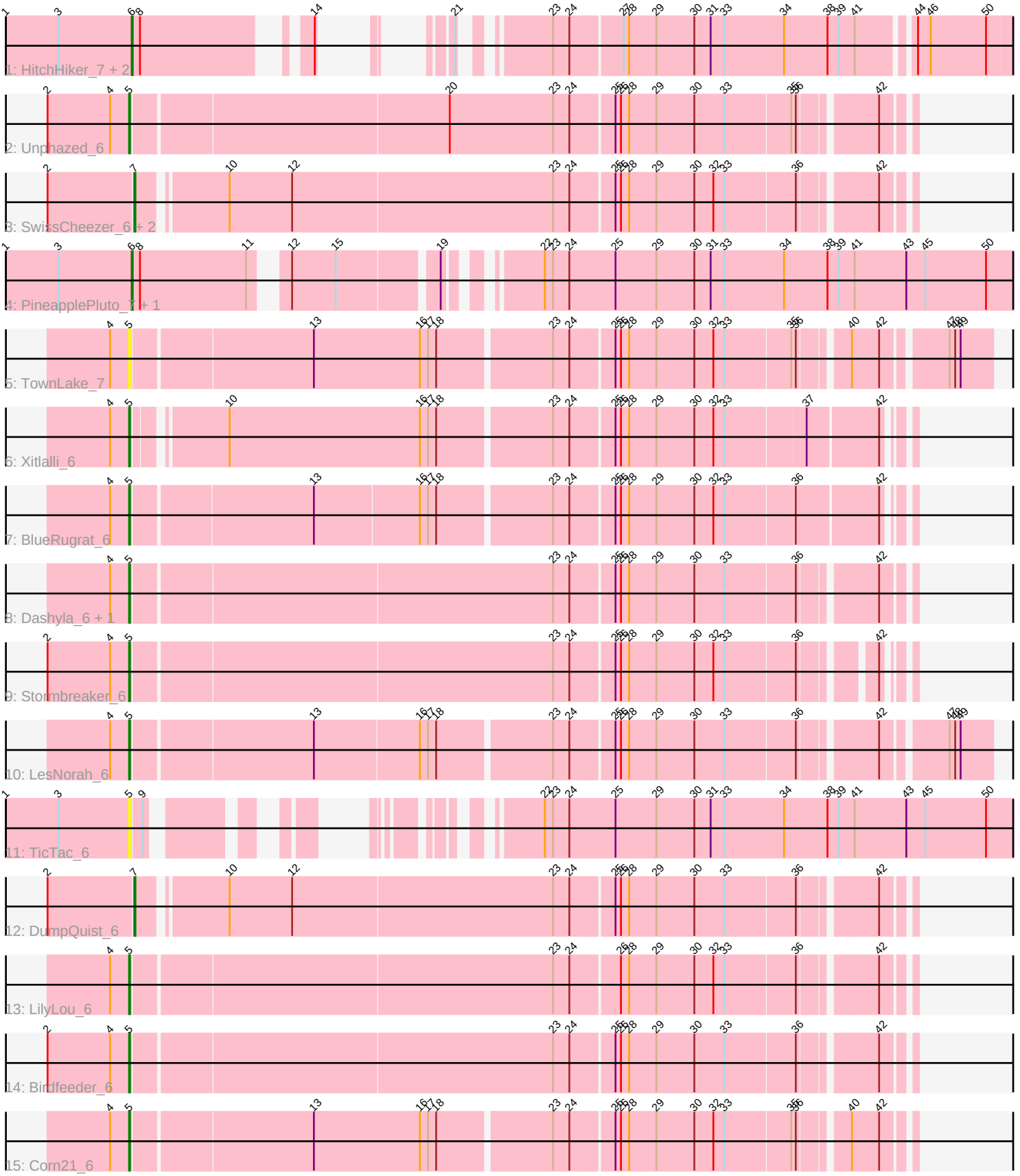
Pham 216564


1: HitchHiker_7 + 2
2: Unphazed_6
3: SwissCheezer_6 + 2
4: PineapplePluto_7 + 1
5: TownLake_7
6: Xitlalli_6
7: BlueRugrat_6
8: Dashyla_6 + 1
9: Stormbreaker_6
10: LesNorah_6
11: TicTac_6
12: DumpQuist_6
13: LilyLou_6
14: Birdfeeder_6
15: Corn21_6

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 216564 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216564 has 21 members, 5 are drafts.

Phages represented in each track:
• Track 1 : HitchHiker_7, Biozilla_6, Oatly_6
• Track 2 : Unphazed_6
• Track 3 : SwissCheezer_6, Alex44_6, ArMaWen_6
• Track 4 : PineapplePluto_7, CrunchyBoi_7
• Track 5 : TownLake_7
• Track 6 : Xitlalli_6
• Track 7 : BlueRugrat_6
• Track 8 : Dashyla_6, Phogo_6
• Track 9 : Stormbreaker_6
• Track 10 : LesNorah_6
• Track 11 : TicTac_6
• Track 12 : DumpQuist_6
• Track 13 : LilyLou_6
• Track 14 : Birdfeeder_6
• Track 15 : Corn21_6

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Birdfeeder_6, BlueRugrat_6, Corn21_6, Dashyla_6, LesNorah_6, LilyLou_6, Phogo_6, Stormbreaker_6, TicTac_6, TownLake_7, Unphazed_6, Xitlalli_6,

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

Genes that do not have the "Most Annotated" start:
• Alex44_6, ArMaWen_6, Biozilla_6, CrunchyBoi_7, DumpQuist_6, HitchHiker_7, Oatly_6, PineapplePluto_7, SwissCheezer_6,

Summary by start number:

Start 5:
• Found in 12 of 21 (57.1%) of genes in pham
• Manual Annotations of this start: 10 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Birdfeeder_6 (EK1), BlueRugrat_6 (EK1), Corn21_6 (EK1), Dashyla_6 (EK1), LesNorah_6 (EK1), LilyLou_6 (EK1), Phogo_6 (EK1), Stormbreaker_6 (EK1), TicTac_6 (EK1), TownLake_7 (EK1), Unphazed_6 (EK1), Xitlalli_6 (EK1),

Start 6:
• Found in 5 of 21 (23.8%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Biozilla_6 (EK1), CrunchyBoi_7 (EK1), HitchHiker_7 (EK1), Oatly_6 (EK1), PineapplePluto_7 (EK1),

Start 7:
• Found in 4 of 21 (19.0%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alex44_6 (EK1), ArMaWen_6 (EK1), DumpQuist_6 (EK1), SwissCheezer_6 (EK1),

Summary by clusters:

There is one cluster represented in this pham: EK1

Info for manual annotations of cluster EK1:
•Start number 5 was manually annotated 10 times for cluster EK1.
•Start number 6 was manually annotated 3 times for cluster EK1.
•Start number 7 was manually annotated 3 times for cluster EK1.

Gene Information:

Gene: Alex44_6 Start: 5200, Stop: 4403, Start Num: 7
Candidate Starts for Alex44_6:
(2, 5293), (Start: 7 @5200 has 3 MA's), (10, 5113), (12, 5044), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (32, 4588), (33, 4576), (36, 4504), (42, 4432),

Gene: ArMaWen_6 Start: 5197, Stop: 4400, Start Num: 7
Candidate Starts for ArMaWen_6:
(2, 5290), (Start: 7 @5197 has 3 MA's), (10, 5110), (12, 5041), (23, 4756), (24, 4738), (25, 4693), (26, 4687), (28, 4678), (29, 4648), (30, 4606), (32, 4585), (33, 4573), (36, 4501), (42, 4429),

Gene: Biozilla_6 Start: 5151, Stop: 4411, Start Num: 6
Candidate Starts for Biozilla_6:
(1, 5289), (3, 5232), (Start: 6 @5151 has 3 MA's), (8, 5142), (14, 4995), (21, 4965), (23, 4896), (24, 4878), (27, 4824), (28, 4818), (29, 4788), (30, 4746), (31, 4728), (33, 4713), (34, 4647), (38, 4599), (39, 4587), (41, 4569), (44, 4515), (46, 4503), (50, 4443),

Gene: Birdfeeder_6 Start: 5212, Stop: 4403, Start Num: 5

Candidate Starts for Birdfeeder_6:
(2, 5302), (4, 5233), (Start: 5 @5212 has 10 MA's), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (33, 4576), (36, 4504), (42, 4432),

Gene: BlueRugrat_6 Start: 5209, Stop: 4403, Start Num: 5
Candidate Starts for BlueRugrat_6:
(4, 5230), (Start: 5 @5209 has 10 MA's), (13, 5017), (16, 4903), (17, 4894), (18, 4885), (23, 4765), (24, 4747), (25, 4702), (26, 4696), (28, 4687), (29, 4657), (30, 4615), (32, 4594), (33, 4582), (36, 4510), (42, 4423),

Gene: Corn21_6 Start: 5228, Stop: 4425, Start Num: 5
Candidate Starts for Corn21_6:
(4, 5249), (Start: 5 @5228 has 10 MA's), (13, 5036), (16, 4919), (17, 4910), (18, 4901), (23, 4781), (24, 4763), (25, 4718), (26, 4712), (28, 4703), (29, 4673), (30, 4631), (32, 4610), (33, 4598), (35, 4529), (36, 4526), (40, 4481), (42, 4454),

Gene: CrunchyBoi_7 Start: 5286, Stop: 4387, Start Num: 6
Candidate Starts for CrunchyBoi_7:
(1, 5424), (3, 5367), (Start: 6 @5286 has 3 MA's), (8, 5277), (11, 5160), (12, 5136), (15, 5088), (19, 4986), (22, 4911), (23, 4902), (24, 4884), (25, 4833), (29, 4788), (30, 4746), (31, 4728), (33, 4713), (34, 4647), (38, 4599), (39, 4587), (41, 4569), (43, 4512), (45, 4491), (50, 4425),

Gene: Dashyla_6 Start: 5209, Stop: 4400, Start Num: 5
Candidate Starts for Dashyla_6:
(4, 5230), (Start: 5 @5209 has 10 MA's), (23, 4756), (24, 4738), (25, 4693), (26, 4687), (28, 4678), (29, 4648), (30, 4606), (33, 4573), (36, 4501), (42, 4429),

Gene: DumpQuist_6 Start: 5200, Stop: 4403, Start Num: 7
Candidate Starts for DumpQuist_6:
(2, 5293), (Start: 7 @5200 has 3 MA's), (10, 5113), (12, 5044), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (33, 4576), (36, 4504), (42, 4432),

Gene: HitchHiker_7 Start: 5151, Stop: 4411, Start Num: 6
Candidate Starts for HitchHiker_7:
(1, 5289), (3, 5232), (Start: 6 @5151 has 3 MA's), (8, 5142), (14, 4995), (21, 4965), (23, 4896), (24, 4878), (27, 4824), (28, 4818), (29, 4788), (30, 4746), (31, 4728), (33, 4713), (34, 4647), (38, 4599), (39, 4587), (41, 4569), (44, 4515), (46, 4503), (50, 4443),

Gene: LesNorah_6 Start: 5284, Stop: 4403, Start Num: 5
Candidate Starts for LesNorah_6:
(4, 5305), (Start: 5 @5284 has 10 MA's), (13, 5092), (16, 4978), (17, 4969), (18, 4960), (23, 4840), (24, 4822), (25, 4777), (26, 4771), (28, 4762), (29, 4732), (30, 4690), (33, 4657), (36, 4585), (42, 4513), (47, 4450), (48, 4444), (49, 4438),

Gene: LilyLou_6 Start: 5212, Stop: 4403, Start Num: 5
Candidate Starts for LilyLou_6:
(4, 5233), (Start: 5 @5212 has 10 MA's), (23, 4759), (24, 4741), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (32, 4588), (33, 4576), (36, 4504), (42, 4432),

Gene: Oatly_6 Start: 5151, Stop: 4411, Start Num: 6
Candidate Starts for Oatly_6:
(1, 5289), (3, 5232), (Start: 6 @5151 has 3 MA's), (8, 5142), (14, 4995), (21, 4965), (23, 4896), (24, 4878), (27, 4824), (28, 4818), (29, 4788), (30, 4746), (31, 4728), (33, 4713), (34, 4647), (38, 4599), (39,

4587), (41, 4569), (44, 4515), (46, 4503), (50, 4443),

Gene: Phogo_6 Start: 5212, Stop: 4403, Start Num: 5
Candidate Starts for Phogo_6:
(4, 5233), (Start: 5 @5212 has 10 MA's), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (33, 4576), (36, 4504), (42, 4432),

Gene: PineapplePluto_7 Start: 5295, Stop: 4399, Start Num: 6
Candidate Starts for PineapplePluto_7:
(1, 5433), (3, 5376), (Start: 6 @5295 has 3 MA's), (8, 5286), (11, 5169), (12, 5145), (15, 5097), (19, 4995), (22, 4920), (23, 4911), (24, 4893), (25, 4842), (29, 4797), (30, 4755), (31, 4737), (33, 4722), (34, 4656), (38, 4608), (39, 4596), (41, 4578), (43, 4521), (45, 4500), (50, 4434),

Gene: Stormbreaker_6 Start: 5194, Stop: 4403, Start Num: 5
Candidate Starts for Stormbreaker_6:
(2, 5284), (4, 5215), (Start: 5 @5194 has 10 MA's), (23, 4741), (24, 4723), (25, 4678), (26, 4672), (28, 4663), (29, 4633), (30, 4591), (32, 4570), (33, 4558), (36, 4486), (42, 4423),

Gene: SwissCheezer_6 Start: 5200, Stop: 4403, Start Num: 7
Candidate Starts for SwissCheezer_6:
(2, 5293), (Start: 7 @5200 has 3 MA's), (10, 5113), (12, 5044), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (32, 4588), (33, 4576), (36, 4504), (42, 4432),

Gene: TicTac_6 Start: 5163, Stop: 4387, Start Num: 5
Candidate Starts for TicTac_6:
(1, 5298), (3, 5241), (Start: 5 @5163 has 10 MA's), (9, 5151), (22, 4911), (23, 4902), (24, 4884), (25, 4833), (29, 4788), (30, 4746), (31, 4728), (33, 4713), (34, 4647), (38, 4599), (39, 4587), (41, 4569), (43, 4512), (45, 4491), (50, 4425),

Gene: TownLake_7 Start: 5287, Stop: 4403, Start Num: 5
Candidate Starts for TownLake_7:
(4, 5308), (Start: 5 @5287 has 10 MA's), (13, 5095), (16, 4978), (17, 4969), (18, 4960), (23, 4840), (24, 4822), (25, 4777), (26, 4771), (28, 4762), (29, 4732), (30, 4690), (32, 4669), (33, 4657), (35, 4588), (36, 4585), (40, 4540), (42, 4513), (47, 4450), (48, 4444), (49, 4438),

Gene: Unphazed_6 Start: 5212, Stop: 4403, Start Num: 5
Candidate Starts for Unphazed_6:
(2, 5302), (4, 5233), (Start: 5 @5212 has 10 MA's), (20, 4873), (23, 4759), (24, 4741), (25, 4696), (26, 4690), (28, 4681), (29, 4651), (30, 4609), (33, 4576), (35, 4507), (36, 4504), (42, 4432),

Gene: Xitlalli_6 Start: 5200, Stop: 4403, Start Num: 5
Candidate Starts for Xitlalli_6:
(4, 5221), (Start: 5 @5200 has 10 MA's), (10, 5113), (16, 4903), (17, 4894), (18, 4885), (23, 4765), (24, 4747), (25, 4702), (26, 4696), (28, 4687), (29, 4657), (30, 4615), (32, 4594), (33, 4582), (37, 4498), (42, 4423),