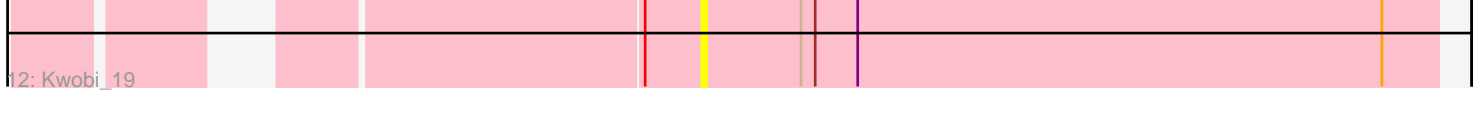
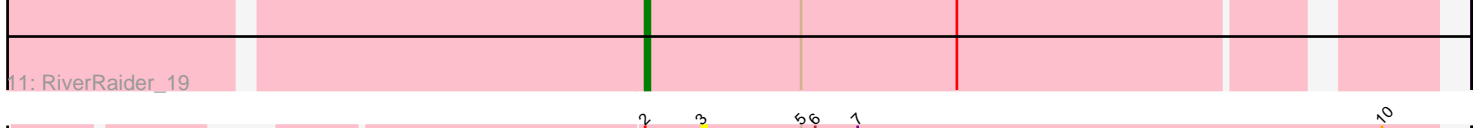
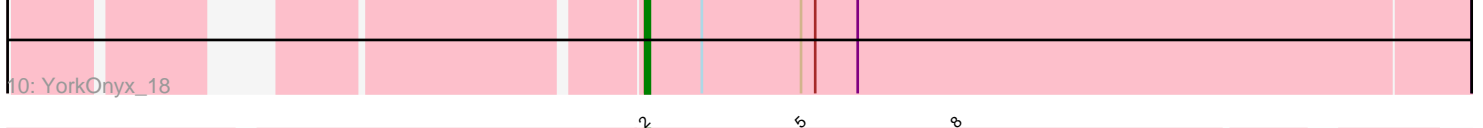
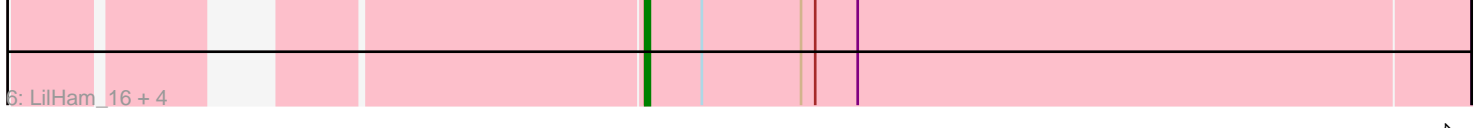
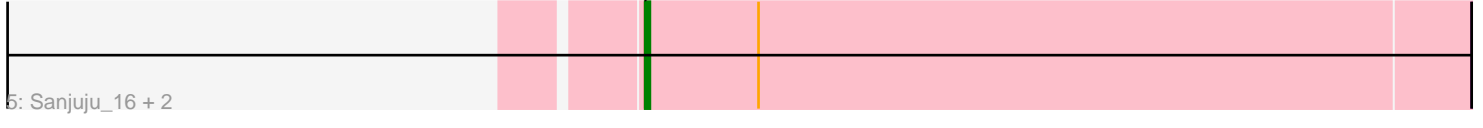
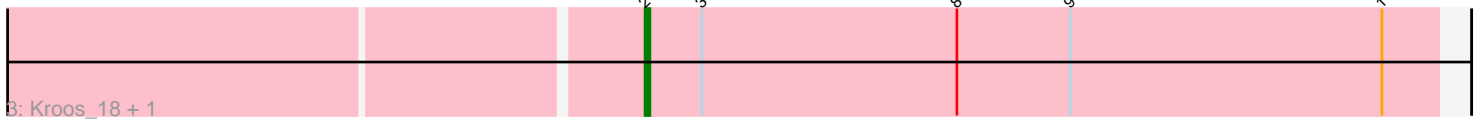
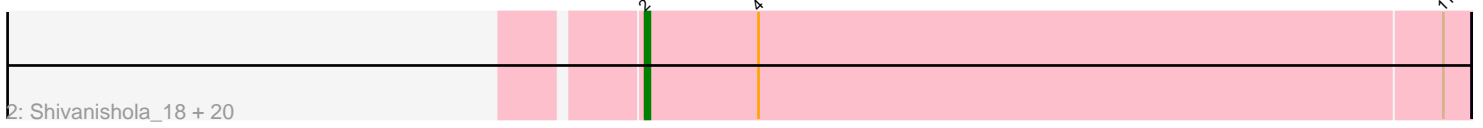
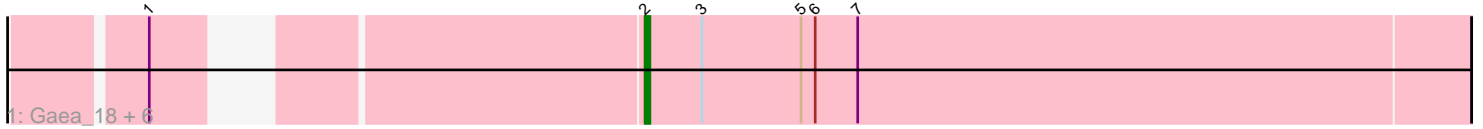


Pham 216252



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 216252 Report

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

Pham number 216252 has 50 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Gaea_18, Tangerine_18, Gustavo_18, Saronaya_18, Ashertheman_19, Baumdotcom_18, StorminNorm_18
- Track 2 : Shivanishola_18, Barsten_18, Nordenberg_12, Fosterous_15, Sitar_19, Kamashten_19, BobBob_15, Thing3_19, Keitabear_19, Bibwit_18, Lennon_19, Vivi2_17, Paries_18, Love_19, Ailee_18, Tangent_15, Sedona_19, Charming_15, FuegoCuervo_21, McKinley_19, Brandonk123_20
- Track 3 : Kroos_18, Ribeye_19
- Track 4 : ChadMasterC_18
- Track 5 : Sanjuju_16, Stultus_18, Jabberwocky_16
- Track 6 : LilHam_16, Flatwoods_19, Bizzy_19, Tycho_18, SchottB_17
- Track 7 : Fitzgerald_16, Rofo_17, Geodirt_17, MoontowerMania_17, Galadriel_19
- Track 8 : Affeca_18, Angelicage_18
- Track 9 : Kewpiedoll_19
- Track 10 : YorkOnyx_18
- Track 11 : RiverRaider_19
- Track 12 : Kwobi_19

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

The start number called the most often in the published annotations is 2, it was called in 42 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca_18, Ailee_18, Angelicage_18, Ashertheman_19, Barsten_18, Baumdotcom_18, Bibwit_18, Bizzy_19, BobBob_15, Brandonk123_20, ChadMasterC_18, Charming_15, Fitzgerald_16, Flatwoods_19, Fosterous_15, FuegoCuervo_21, Gaea_18, Galadriel_19, Geodirt_17, Gustavo_18, Jabberwocky_16, Kamashten_19, Keitabear_19, Kewpiedoll_19, Kroos_18, Lennon_19, LilHam_16, Love_19, McKinley_19, MoontowerMania_17, Nordenberg_12, Paries_18, Ribeye_19, RiverRaider_19, Rofo_17, Sanjuju_16, Saronaya_18, SchottB_17, Sedona_19, Shivanishola_18, Sitar_19, StorminNorm_18, Stultus_18, Tangent_15, Tangerine_18, Thing3_19, Tycho_18, Vivi2_17, YorkOnyx_18,

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

- Kwobi_19,

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

-

Summary by start number:

Start 2:

- Found in 50 of 50 (100.0%) of genes in pham
- Manual Annotations of this start: 42 of 42
- Called 98.0% of time when present
- Phage (with cluster) where this start called: Affeca_18 (DE1), Ailee_18 (DE1), Angelicage_18 (DE1), Ashertheman_19 (DE1), Barsten_18 (DE1), Baumdotcom_18 (DE1), Bibwit_18 (DE1), Bizzy_19 (DE1), BobBob_15 (DE1), Brandonk123_20 (DE1), ChadMasterC_18 (DE1), Charming_15 (DE1), Fitzgerald_16 (DE1), Flatwoods_19 (DE1), Fosterous_15 (DE1), FuegoCuervo_21 (DE1), Gaea_18 (DE1), Galadriel_19 (DE1), Geodirt_17 (DE1), Gustavo_18 (DE1), Jabberwocky_16 (DE1), Kamashten_19 (DE1), Keitabear_19 (DE1), Kewpiedoll_19 (DE1), Kroos_18 (DE1), Lennon_19 (DE1), LilHam_16 (DE1), Love_19 (DE1), McKinley_19 (DE1), MoontowerMania_17 (DE1), Nordenberg_12 (DE1), Paries_18 (DE1), Ribeye_19 (DE1), RiverRaider_19 (DE1), Rofo_17 (DE1), Sanjuju_16 (DE1), Saronaya_18 (DE1), SchottB_17 (DE1), Sedona_19 (DE1), Shivanishola_18 (DE1), Sitar_19 (DE1), StorminNorm_18 (DE1), Stultus_18 (DE1), Tangent_15 (DE1), Tangerine_18 (DE1), Thing3_19 (DE1), Tycho_18 (DE1), Vivi2_17 (DE1), YorkOnyx_18 (DE1),

Start 3:

- Found in 16 of 50 (32.0%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Kwobi_19 (DE1),

Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 2 was manually annotated 42 times for cluster DE1.

Gene Information:

Gene: Affeca_18 Start: 14929, Stop: 15102, Start Num: 2

Candidate Starts for Affeca_18:

(Start: 2 @14929 has 42 MA's), (4, 14953), (8, 14995), (11, 15097),

Gene: Ailee_18 Start: 14837, Stop: 15010, Start Num: 2

Candidate Starts for Ailee_18:

(Start: 2 @14837 has 42 MA's), (4, 14861), (11, 15005),

Gene: Angelicage_18 Start: 15352, Stop: 15525, Start Num: 2

Candidate Starts for Angelicage_18:

(Start: 2 @15352 has 42 MA's), (4, 15376), (8, 15418), (11, 15520),

Gene: Ashertheman_19 Start: 14435, Stop: 14608, Start Num: 2

Candidate Starts for Ashertheman_19:

(1, 14348), (Start: 2 @14435 has 42 MA's), (3, 14447), (5, 14468), (6, 14471), (7, 14480),

Gene: Barsten_18 Start: 14428, Stop: 14601, Start Num: 2

Candidate Starts for Barsten_18:

(Start: 2 @14428 has 42 MA's), (4, 14452), (11, 14596),

Gene: Baumdotcom_18 Start: 14051, Stop: 14224, Start Num: 2

Candidate Starts for Baumdotcom_18:

(1, 13964), (Start: 2 @14051 has 42 MA's), (3, 14063), (5, 14084), (6, 14087), (7, 14096),

Gene: Bibwit_18 Start: 14672, Stop: 14845, Start Num: 2

Candidate Starts for Bibwit_18:

(Start: 2 @14672 has 42 MA's), (4, 14696), (11, 14840),

Gene: Bizzy_19 Start: 14330, Stop: 14503, Start Num: 2

Candidate Starts for Bizzy_19:

(Start: 2 @14330 has 42 MA's), (3, 14342), (5, 14363), (6, 14366), (7, 14375),

Gene: BobBob_15 Start: 13282, Stop: 13455, Start Num: 2

Candidate Starts for BobBob_15:

(Start: 2 @13282 has 42 MA's), (4, 13306), (11, 13450),

Gene: Brandonk123_20 Start: 14411, Stop: 14584, Start Num: 2

Candidate Starts for Brandonk123_20:

(Start: 2 @14411 has 42 MA's), (4, 14435), (11, 14579),

Gene: ChadMasterC_18 Start: 14829, Stop: 15002, Start Num: 2

Candidate Starts for ChadMasterC_18:

(Start: 2 @14829 has 42 MA's), (4, 14853),

Gene: Charming_15 Start: 13284, Stop: 13457, Start Num: 2

Candidate Starts for Charming_15:

(Start: 2 @13284 has 42 MA's), (4, 13308), (11, 13452),

Gene: Fitzgerald_16 Start: 14147, Stop: 14320, Start Num: 2

Candidate Starts for Fitzgerald_16:

(Start: 2 @14147 has 42 MA's), (4, 14171), (11, 14315),

Gene: Flatwoods_19 Start: 14337, Stop: 14510, Start Num: 2

Candidate Starts for Flatwoods_19:

(Start: 2 @14337 has 42 MA's), (3, 14349), (5, 14370), (6, 14373), (7, 14382),

Gene: Fosterous_15 Start: 14173, Stop: 14346, Start Num: 2

Candidate Starts for Fosterous_15:

(Start: 2 @14173 has 42 MA's), (4, 14197), (11, 14341),

Gene: FuegoCuervo_21 Start: 13899, Stop: 14072, Start Num: 2

Candidate Starts for FuegoCuervo_21:

(Start: 2 @13899 has 42 MA's), (4, 13923), (11, 14067),

Gene: Gaea_18 Start: 14031, Stop: 14204, Start Num: 2
Candidate Starts for Gaea_18:
(1, 13944), (Start: 2 @14031 has 42 MA's), (3, 14043), (5, 14064), (6, 14067), (7, 14076),

Gene: Galadriel_19 Start: 14032, Stop: 14205, Start Num: 2
Candidate Starts for Galadriel_19:
(Start: 2 @14032 has 42 MA's), (4, 14056), (11, 14200),

Gene: Geodirt_17 Start: 14674, Stop: 14847, Start Num: 2
Candidate Starts for Geodirt_17:
(Start: 2 @14674 has 42 MA's), (4, 14698), (11, 14842),

Gene: Gustavo_18 Start: 14142, Stop: 14315, Start Num: 2
Candidate Starts for Gustavo_18:
(1, 14055), (Start: 2 @14142 has 42 MA's), (3, 14154), (5, 14175), (6, 14178), (7, 14187),

Gene: Jabberwocky_16 Start: 14581, Stop: 14754, Start Num: 2
Candidate Starts for Jabberwocky_16:
(Start: 2 @14581 has 42 MA's), (4, 14605),

Gene: Kamashten_19 Start: 15264, Stop: 15437, Start Num: 2
Candidate Starts for Kamashten_19:
(Start: 2 @15264 has 42 MA's), (4, 15288), (11, 15432),

Gene: Keitabear_19 Start: 16376, Stop: 16549, Start Num: 2
Candidate Starts for Keitabear_19:
(Start: 2 @16376 has 42 MA's), (4, 16400), (11, 16544),

Gene: Kewpiedoll_19 Start: 14627, Stop: 14800, Start Num: 2
Candidate Starts for Kewpiedoll_19:
(Start: 2 @14627 has 42 MA's), (4, 14651), (8, 14693),

Gene: Kroos_18 Start: 14451, Stop: 14618, Start Num: 2
Candidate Starts for Kroos_18:
(Start: 2 @14451 has 42 MA's), (3, 14463), (8, 14517), (9, 14541), (10, 14607),

Gene: Kwobi_19 Start: 14439, Stop: 14594, Start Num: 3
Candidate Starts for Kwobi_19:
(Start: 2 @14427 has 42 MA's), (3, 14439), (5, 14460), (6, 14463), (7, 14472), (10, 14583),

Gene: Lennon_19 Start: 15480, Stop: 15653, Start Num: 2
Candidate Starts for Lennon_19:
(Start: 2 @15480 has 42 MA's), (4, 15504), (11, 15648),

Gene: LilHam_16 Start: 13449, Stop: 13622, Start Num: 2
Candidate Starts for LilHam_16:
(Start: 2 @13449 has 42 MA's), (3, 13461), (5, 13482), (6, 13485), (7, 13494),

Gene: Love_19 Start: 14343, Stop: 14516, Start Num: 2
Candidate Starts for Love_19:
(Start: 2 @14343 has 42 MA's), (4, 14367), (11, 14511),

Gene: McKinley_19 Start: 14802, Stop: 14975, Start Num: 2

Candidate Starts for McKinley_19:

(Start: 2 @14802 has 42 MA's), (4, 14826), (11, 14970),

Gene: MoontowerMania_17 Start: 13786, Stop: 13959, Start Num: 2

Candidate Starts for MoontowerMania_17:

(Start: 2 @13786 has 42 MA's), (4, 13810), (11, 13954),

Gene: Nordenberg_12 Start: 12663, Stop: 12836, Start Num: 2

Candidate Starts for Nordenberg_12:

(Start: 2 @12663 has 42 MA's), (4, 12687), (11, 12831),

Gene: Paries_18 Start: 14031, Stop: 14204, Start Num: 2

Candidate Starts for Paries_18:

(Start: 2 @14031 has 42 MA's), (4, 14055), (11, 14199),

Gene: Ribeye_19 Start: 14905, Stop: 15072, Start Num: 2

Candidate Starts for Ribeye_19:

(Start: 2 @14905 has 42 MA's), (3, 14917), (8, 14971), (9, 14995), (10, 15061),

Gene: RiverRaider_19 Start: 13773, Stop: 13931, Start Num: 2

Candidate Starts for RiverRaider_19:

(Start: 2 @13773 has 42 MA's), (5, 13806), (8, 13839),

Gene: Rofo_17 Start: 14283, Stop: 14456, Start Num: 2

Candidate Starts for Rofo_17:

(Start: 2 @14283 has 42 MA's), (4, 14307), (11, 14451),

Gene: Sanjuju_16 Start: 14232, Stop: 14405, Start Num: 2

Candidate Starts for Sanjuju_16:

(Start: 2 @14232 has 42 MA's), (4, 14256),

Gene: Saronaya_18 Start: 14142, Stop: 14315, Start Num: 2

Candidate Starts for Saronaya_18:

(1, 14055), (Start: 2 @14142 has 42 MA's), (3, 14154), (5, 14175), (6, 14178), (7, 14187),

Gene: SchottB_17 Start: 15131, Stop: 15304, Start Num: 2

Candidate Starts for SchottB_17:

(Start: 2 @15131 has 42 MA's), (3, 15143), (5, 15164), (6, 15167), (7, 15176),

Gene: Sedona_19 Start: 16109, Stop: 16282, Start Num: 2

Candidate Starts for Sedona_19:

(Start: 2 @16109 has 42 MA's), (4, 16133), (11, 16277),

Gene: Shivanishola_18 Start: 14525, Stop: 14698, Start Num: 2

Candidate Starts for Shivanishola_18:

(Start: 2 @14525 has 42 MA's), (4, 14549), (11, 14693),

Gene: Sitar_19 Start: 15480, Stop: 15653, Start Num: 2

Candidate Starts for Sitar_19:

(Start: 2 @15480 has 42 MA's), (4, 15504), (11, 15648),

Gene: StorminNorm_18 Start: 14022, Stop: 14195, Start Num: 2

Candidate Starts for StorminNorm_18:

(1, 13935), (Start: 2 @14022 has 42 MA's), (3, 14034), (5, 14055), (6, 14058), (7, 14067),

Gene: Stultus_18 Start: 14527, Stop: 14700, Start Num: 2

Candidate Starts for Stultus_18:

(Start: 2 @14527 has 42 MA's), (4, 14551),

Gene: Tangent_15 Start: 13284, Stop: 13457, Start Num: 2

Candidate Starts for Tangent_15:

(Start: 2 @13284 has 42 MA's), (4, 13308), (11, 13452),

Gene: Tangerine_18 Start: 14028, Stop: 14201, Start Num: 2

Candidate Starts for Tangerine_18:

(1, 13941), (Start: 2 @14028 has 42 MA's), (3, 14040), (5, 14061), (6, 14064), (7, 14073),

Gene: Thing3_19 Start: 15264, Stop: 15437, Start Num: 2

Candidate Starts for Thing3_19:

(Start: 2 @15264 has 42 MA's), (4, 15288), (11, 15432),

Gene: Tycho_18 Start: 14145, Stop: 14318, Start Num: 2

Candidate Starts for Tycho_18:

(Start: 2 @14145 has 42 MA's), (3, 14157), (5, 14178), (6, 14181), (7, 14190),

Gene: Vivi2_17 Start: 14455, Stop: 14628, Start Num: 2

Candidate Starts for Vivi2_17:

(Start: 2 @14455 has 42 MA's), (4, 14479), (11, 14623),

Gene: YorkOnyx_18 Start: 13977, Stop: 14150, Start Num: 2

Candidate Starts for YorkOnyx_18:

(Start: 2 @13977 has 42 MA's), (3, 13989), (5, 14010), (6, 14013), (7, 14022),