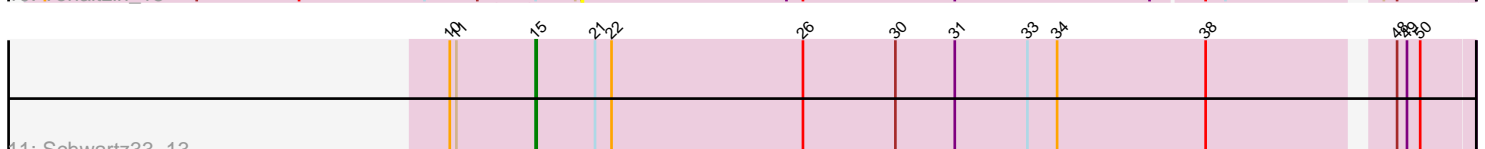
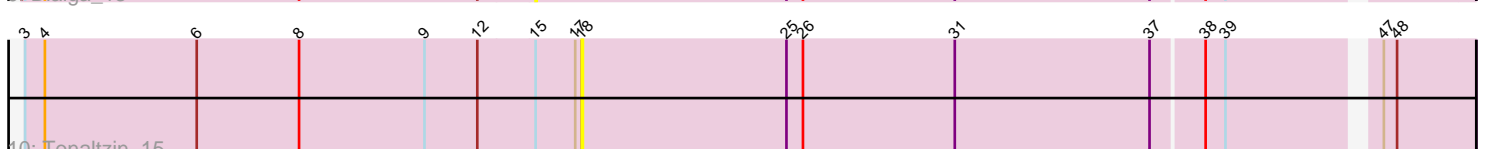
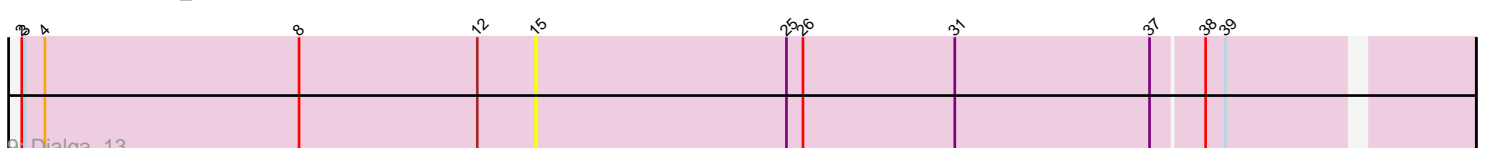
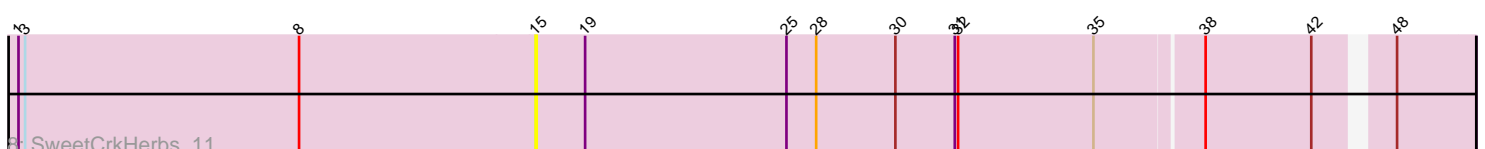
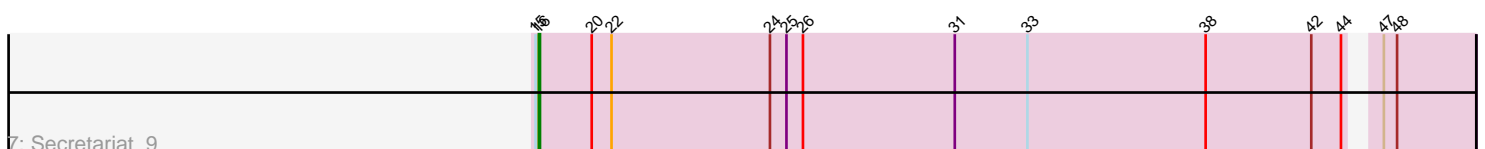
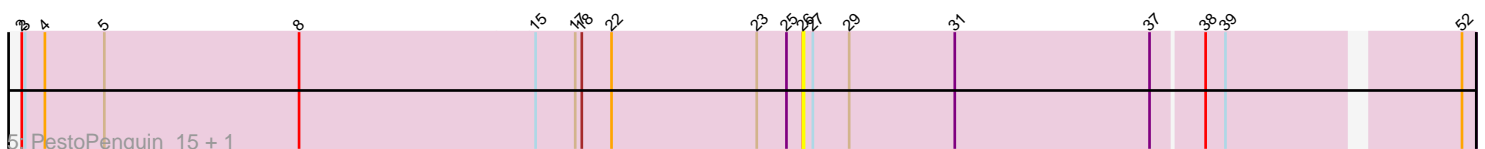
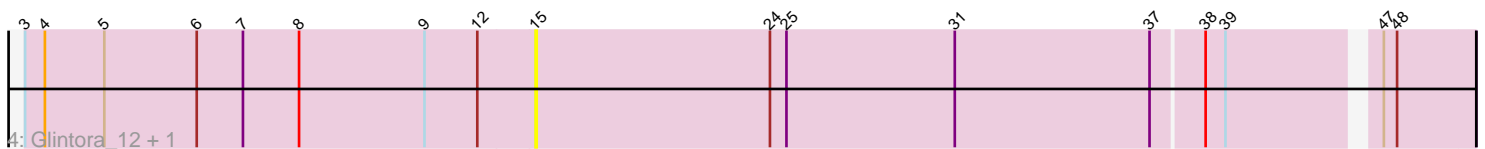
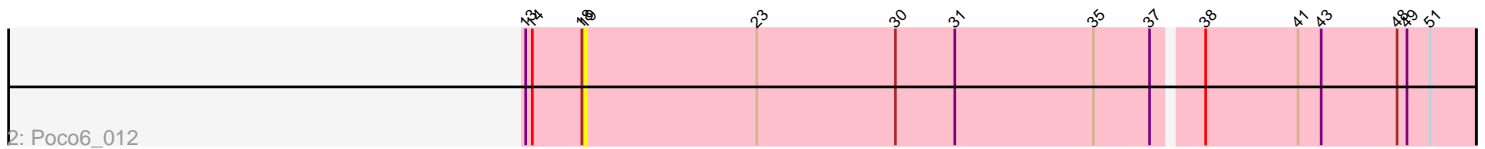
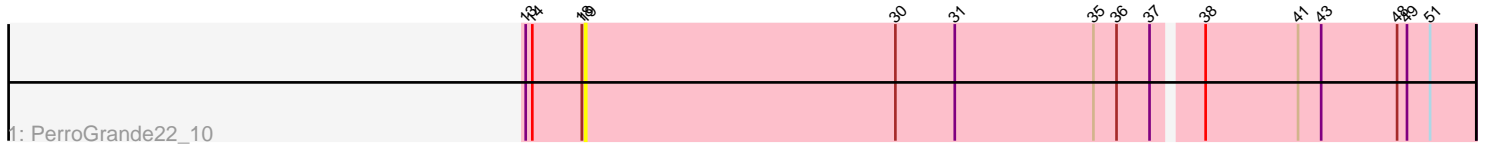


Pham 303761



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 303761 Report

This analysis was run 06/12/26 on database version 650.

Pham number 303761 has 14 members, 12 are drafts.

Phages represented in each track:

- Track 1 : PerroGrande22_10
- Track 2 : Poco6_012
- Track 3 : Pepy6_010
- Track 4 : Glintora_12, Luthien_14
- Track 5 : PestoPenguin_15, Aloe25_15
- Track 6 : CWormy_13, ArtetaBall_13
- Track 7 : Secretariat_9
- Track 8 : SweetCrkHerbs_11
- Track 9 : Dialga_13
- Track 10 : Tonaltzin_15
- Track 11 : Schwartz33_13

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

The start number called the most often in the published annotations is 16, it was called in 1 of the 2 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Secretariat_9,

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

- ArtetaBall_13, CWormy_13,

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

- Aloe25_15, Dialga_13, Glintora_12, Luthien_14, Pepy6_010, PerroGrande22_10, PestoPenguin_15, Poco6_012, Schwartz33_13, SweetCrkHerbs_11, Tonaltzin_15,

Summary by start number:

Start 15:

- Found in 11 of 14 (78.6%) of genes in pham
- Manual Annotations of this start: 1 of 2
- Called 63.6% of time when present

- Phage (with cluster) where this start called: ArtetaBall_13 (DJ), CWormy_13 (DJ), Dialga_13 (DJ), Glintora_12 (DJ), Luthien_14 (DJ), Schwartz33_13 (DJ), SweetCrkHerbs_11 (DJ),

Start 16:

- Found in 3 of 14 (21.4%) of genes in pham
- Manual Annotations of this start: 1 of 2
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Secretariat_9 (DJ),

Start 18:

- Found in 8 of 14 (57.1%) of genes in pham
- No Manual Annotations of this start.
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Tonaltzin_15 (DJ),

Start 19:

- Found in 4 of 14 (28.6%) of genes in pham
- No Manual Annotations of this start.
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Pepy6_010 (CC), PerroGrande22_10 (CC), Poco6_012 (CC),

Start 26:

- Found in 8 of 14 (57.1%) of genes in pham
- No Manual Annotations of this start.
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Aloe25_15 (DJ), PestoPenguin_15 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 15 was manually annotated 1 time for cluster DJ.
- Start number 16 was manually annotated 1 time for cluster DJ.

Gene Information:

Gene: Aloe25_15 Start: 7148, Stop: 7729, Start Num: 26

Candidate Starts for Aloe25_15:

(2, 6440), (3, 6443), (4, 6461), (5, 6515), (8, 6692), (Start: 15 @6905 has 1 MA's), (17, 6941), (18, 6947), (22, 6974), (23, 7106), (25, 7133), (26, 7148), (27, 7157), (29, 7190), (31, 7286), (37, 7463), (38, 7508), (39, 7526), (52, 7718),

Gene: ArtetaBall_13 Start: 5833, Stop: 6657, Start Num: 15

Candidate Starts for ArtetaBall_13:

(2, 5368), (3, 5371), (4, 5389), (8, 5620), (Start: 15 @5833 has 1 MA's), (Start: 16 @5836 has 1 MA's), (18, 5875), (25, 6061), (26, 6076), (29, 6118), (31, 6214), (37, 6391), (38, 6436), (39, 6454), (47, 6577), (48, 6589),

Gene: CWormy_13 Start: 5833, Stop: 6657, Start Num: 15

Candidate Starts for CWormy_13:

(2, 5368), (3, 5371), (4, 5389), (8, 5620), (Start: 15 @5833 has 1 MA's), (Start: 16 @5836 has 1 MA's), (18, 5875), (25, 6061), (26, 6076), (29, 6118), (31, 6214), (37, 6391), (38, 6436), (39, 6454), (47, 6577), (48, 6589),

Gene: Dialga_13 Start: 5833, Stop: 6657, Start Num: 15

Candidate Starts for Dialga_13:

(2, 5368), (3, 5371), (4, 5389), (8, 5620), (12, 5782), (Start: 15 @5833 has 1 MA's), (25, 6061), (26, 6076), (31, 6214), (37, 6391), (38, 6436), (39, 6454),

Gene: Glintora_12 Start: 7105, Stop: 7929, Start Num: 15

Candidate Starts for Glintora_12:

(3, 6643), (4, 6661), (5, 6715), (6, 6799), (7, 6841), (8, 6892), (9, 7006), (12, 7054), (Start: 15 @7105 has 1 MA's), (24, 7318), (25, 7333), (31, 7486), (37, 7663), (38, 7708), (39, 7726), (47, 7849), (48, 7861),

Gene: Luthien_14 Start: 7106, Stop: 7930, Start Num: 15

Candidate Starts for Luthien_14:

(3, 6644), (4, 6662), (5, 6716), (6, 6800), (7, 6842), (8, 6893), (9, 7007), (12, 7055), (Start: 15 @7106 has 1 MA's), (24, 7319), (25, 7334), (31, 7487), (37, 7664), (38, 7709), (39, 7727), (47, 7850), (48, 7862),

Gene: Pepy6_010 Start: 9009, Stop: 9806, Start Num: 19

Candidate Starts for Pepy6_010:

(13, 8955), (14, 8961), (18, 9006), (19, 9009), (30, 9291), (31, 9345), (35, 9471), (37, 9522), (38, 9561), (40, 9630), (41, 9645), (42, 9657), (45, 9693), (46, 9699), (48, 9735), (49, 9744), (51, 9765),

Gene: PerroGrande22_10 Start: 9209, Stop: 10006, Start Num: 19

Candidate Starts for PerroGrande22_10:

(13, 9155), (14, 9161), (18, 9206), (19, 9209), (30, 9491), (31, 9545), (35, 9671), (36, 9692), (37, 9722), (38, 9761), (41, 9845), (43, 9866), (48, 9935), (49, 9944), (51, 9965),

Gene: PestoPenguin_15 Start: 7148, Stop: 7729, Start Num: 26

Candidate Starts for PestoPenguin_15:

(2, 6440), (3, 6443), (4, 6461), (5, 6515), (8, 6692), (Start: 15 @6905 has 1 MA's), (17, 6941), (18, 6947), (22, 6974), (23, 7106), (25, 7133), (26, 7148), (27, 7157), (29, 7190), (31, 7286), (37, 7463), (38, 7508), (39, 7526), (52, 7718),

Gene: Poco6_012 Start: 12440, Stop: 13237, Start Num: 19

Candidate Starts for Poco6_012:

(13, 12386), (14, 12392), (18, 12437), (19, 12440), (23, 12596), (30, 12722), (31, 12776), (35, 12902), (37, 12953), (38, 12992), (41, 13076), (43, 13097), (48, 13166), (49, 13175), (51, 13196),

Gene: Schwartz33_13 Start: 6686, Stop: 7513, Start Num: 15

Candidate Starts for Schwartz33_13:

(10, 6608), (11, 6614), (Start: 15 @6686 has 1 MA's), (21, 6740), (22, 6755), (26, 6929), (30, 7013), (31, 7067), (33, 7133), (34, 7160), (38, 7295), (48, 7448), (49, 7457), (50, 7469),

Gene: Secretariat_9 Start: 4290, Stop: 5117, Start Num: 16

Candidate Starts for Secretariat_9:

(Start: 15 @4287 has 1 MA's), (Start: 16 @4290 has 1 MA's), (20, 4338), (22, 4356), (24, 4500), (25, 4515), (26, 4530), (31, 4668), (33, 4734), (38, 4896), (42, 4992), (44, 5019), (47, 5037), (48, 5049),

Gene: SweetCrkHerbs_11 Start: 4468, Stop: 5289, Start Num: 15

Candidate Starts for SweetCrkHerbs_11:

(1, 4000), (3, 4006), (8, 4255), (Start: 15 @4468 has 1 MA's), (19, 4513), (25, 4696), (28, 4723), (30, 4795), (31, 4849), (32, 4852), (35, 4975), (38, 5068), (42, 5164), (48, 5221),

Gene: Tonaltzin_15 Start: 7151, Stop: 7933, Start Num: 18

Candidate Starts for Tonaltzin_15:

(3, 6647), (4, 6665), (6, 6803), (8, 6896), (9, 7010), (12, 7058), (Start: 15 @7109 has 1 MA's), (17, 7145), (18, 7151), (25, 7337), (26, 7352), (31, 7490), (37, 7667), (38, 7712), (39, 7730), (47, 7853), (48, 7865),