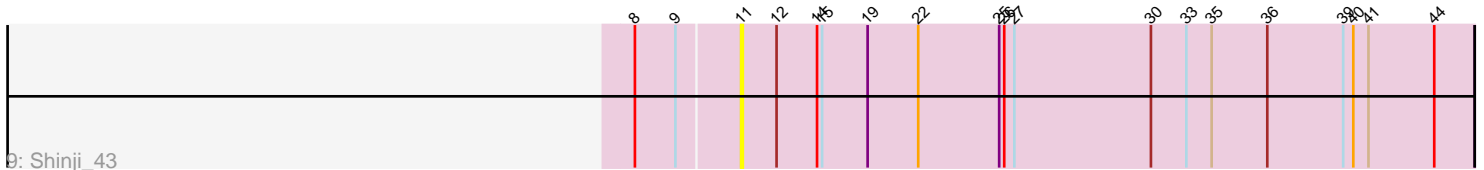
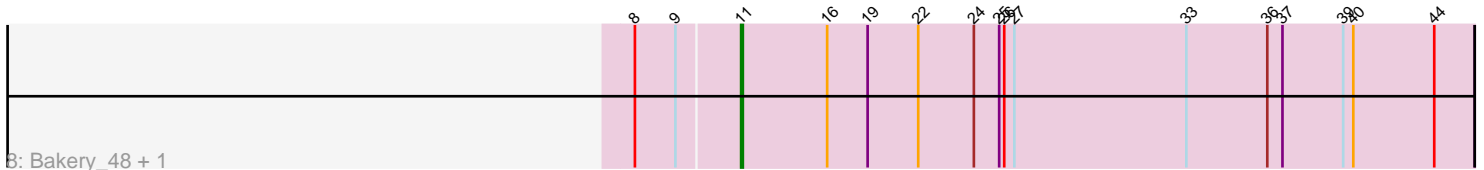
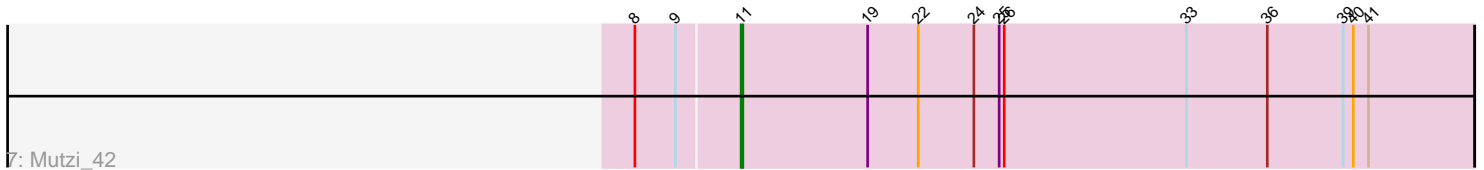
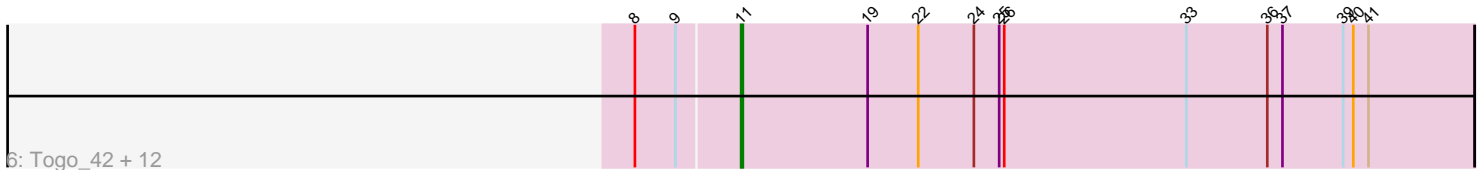
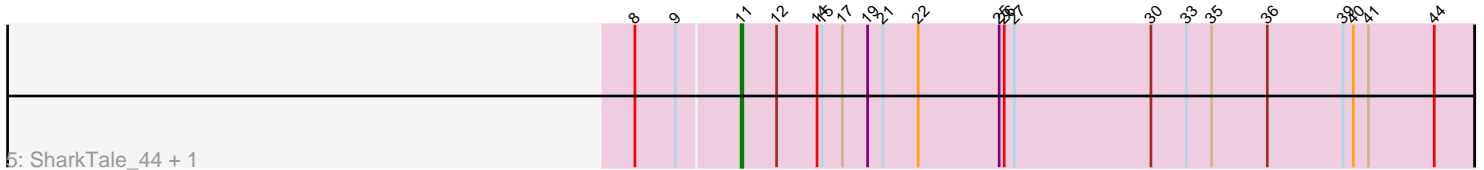
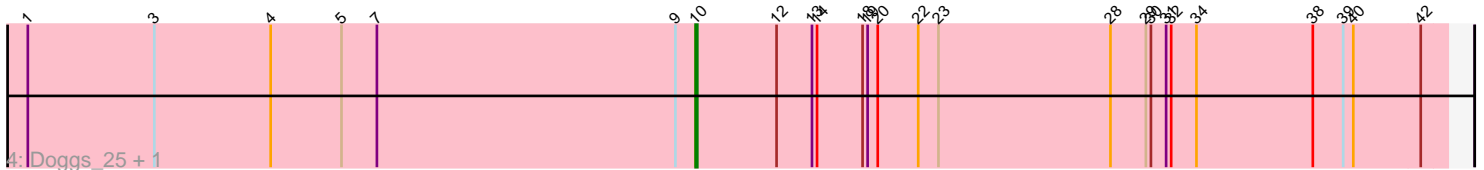
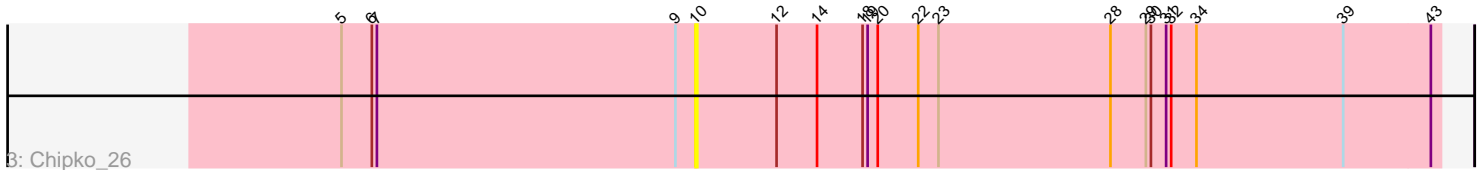
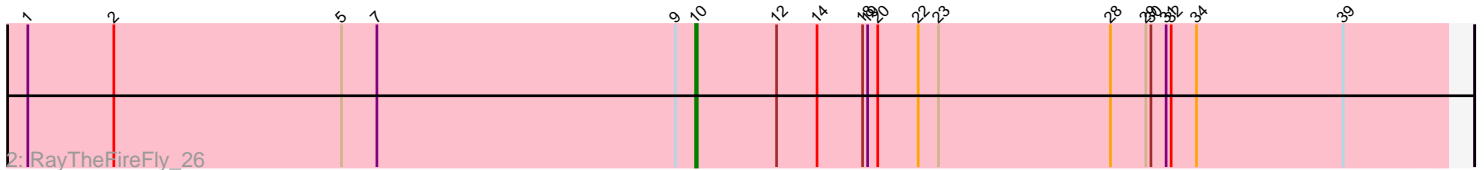
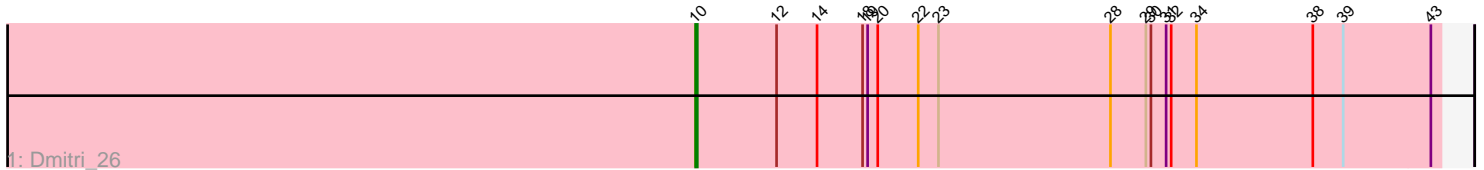


Pham 303648



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 303648 Report

This analysis was run 06/08/26 on database version 649.

Pham number 303648 has 24 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Dmitri\_26
- Track 2 : RayTheFireFly\_26
- Track 3 : Chipko\_26
- Track 4 : Doggs\_25, Coriander\_26
- Track 5 : SharkTale\_44, YungMoney\_46
- Track 6 : Togo\_42, Fireball\_44, Barb\_45, Phlop\_42, Fugax\_46, PullumCavea\_42, ClamChowder\_45, PinkCoffee\_45, Egi03\_43, Nubi\_43, Sendy\_44, TillyBobJoe\_43, SmokingBunny\_43
- Track 7 : Mutzi\_42
- Track 8 : Bakery\_48, Sixsevenium\_46
- Track 9 : Shinji\_43

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

The start number called the most often in the published annotations is 11, it was called in 15 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bakery\_48, Barb\_45, ClamChowder\_45, Egi03\_43, Fireball\_44, Fugax\_46, Mutzi\_42, Nubi\_43, Phlop\_42, PinkCoffee\_45, PullumCavea\_42, Sendy\_44, SharkTale\_44, Shinji\_43, Sixsevenium\_46, SmokingBunny\_43, TillyBobJoe\_43, Togo\_42, YungMoney\_46,

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

- 

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

- Chipko\_26, Coriander\_26, Dmitri\_26, Doggs\_25, RayTheFireFly\_26,

### **Summary by start number:**

Start 10:

- Found in 5 of 24 ( 20.8% ) of genes in pham
- Manual Annotations of this start: 4 of 19

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipko\_26 (DB), Coriander\_26 (DB), Dmitri\_26 (DB), Doggs\_25 (DB), RayTheFireFly\_26 (DB),

Start 11:

- Found in 19 of 24 ( 79.2% ) of genes in pham
- Manual Annotations of this start: 15 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bakery\_48 (DC1), Barb\_45 (DC1), ClamChowder\_45 (DC1), Egi03\_43 (DC1), Fireball\_44 (DC1), Fugax\_46 (DC1), Mutzi\_42 (DC1), Nubi\_43 (DC1), Phlop\_42 (DC1), PinkCoffee\_45 (DC1), PullumCavea\_42 (DC1), Sendy\_44 (DC1), SharkTale\_44 (DC1), Shinji\_43 (DC1), Sixsevenium\_46 (DC1), SmokingBunny\_43 (DC1), TillyBobJoe\_43 (DC1), Togo\_42 (DC1), YungMoney\_46 (DC1),

### Summary by clusters:

There are 2 clusters represented in this pham: DB, DC1,

Info for manual annotations of cluster DB:

- Start number 10 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 11 was manually annotated 15 times for cluster DC1.

### Gene Information:

Gene: Bakery\_48 Start: 37078, Stop: 37512, Start Num: 11

Candidate Starts for Bakery\_48:

(8, 37018), (9, 37042), (Start: 11 @37078 has 15 MA's), (16, 37129), (19, 37153), (22, 37183), (24, 37216), (25, 37231), (26, 37234), (27, 37240), (33, 37342), (36, 37390), (37, 37399), (39, 37435), (40, 37441), (44, 37489),

Gene: Barb\_45 Start: 36050, Stop: 36484, Start Num: 11

Candidate Starts for Barb\_45:

(8, 35990), (9, 36014), (Start: 11 @36050 has 15 MA's), (19, 36125), (22, 36155), (24, 36188), (25, 36203), (26, 36206), (33, 36314), (36, 36362), (37, 36371), (39, 36407), (40, 36413), (41, 36422),

Gene: Chipko\_26 Start: 22113, Stop: 22553, Start Num: 10

Candidate Starts for Chipko\_26:

(5, 21903), (6, 21921), (7, 21924), (9, 22101), (Start: 10 @22113 has 4 MA's), (12, 22161), (14, 22185), (18, 22212), (19, 22215), (20, 22221), (22, 22245), (23, 22257), (28, 22359), (29, 22380), (30, 22383), (31, 22392), (32, 22395), (34, 22410), (39, 22497), (43, 22548),

Gene: ClamChowder\_45 Start: 36050, Stop: 36484, Start Num: 11

Candidate Starts for ClamChowder\_45:

(8, 35990), (9, 36014), (Start: 11 @36050 has 15 MA's), (19, 36125), (22, 36155), (24, 36188), (25, 36203), (26, 36206), (33, 36314), (36, 36362), (37, 36371), (39, 36407), (40, 36413), (41, 36422),

Gene: Coriander\_26 Start: 22098, Stop: 22541, Start Num: 10

Candidate Starts for Coriander\_26:

(1, 21702), (3, 21777), (4, 21846), (5, 21888), (7, 21909), (9, 22086), (Start: 10 @22098 has 4 MA's), (12, 22146), (13, 22167), (14, 22170), (18, 22197), (19, 22200), (20, 22206), (22, 22230), (23, 22242), (28, 22344), (29, 22365), (30, 22368), (31, 22377), (32, 22380), (34, 22395), (38, 22464), (39, 22482), (40, 22488), (42, 22527),

Gene: Dmitri\_26 Start: 22153, Stop: 22593, Start Num: 10

Candidate Starts for Dmitri\_26:

(Start: 10 @22153 has 4 MA's), (12, 22201), (14, 22225), (18, 22252), (19, 22255), (20, 22261), (22, 22285), (23, 22297), (28, 22399), (29, 22420), (30, 22423), (31, 22432), (32, 22435), (34, 22450), (38, 22519), (39, 22537), (43, 22588),

Gene: Doggs\_25 Start: 21797, Stop: 22240, Start Num: 10

Candidate Starts for Doggs\_25:

(1, 21401), (3, 21476), (4, 21545), (5, 21587), (7, 21608), (9, 21785), (Start: 10 @21797 has 4 MA's), (12, 21845), (13, 21866), (14, 21869), (18, 21896), (19, 21899), (20, 21905), (22, 21929), (23, 21941), (28, 22043), (29, 22064), (30, 22067), (31, 22076), (32, 22079), (34, 22094), (38, 22163), (39, 22181), (40, 22187), (42, 22226),

Gene: Egi03\_43 Start: 35531, Stop: 35965, Start Num: 11

Candidate Starts for Egi03\_43:

(8, 35471), (9, 35495), (Start: 11 @35531 has 15 MA's), (19, 35606), (22, 35636), (24, 35669), (25, 35684), (26, 35687), (33, 35795), (36, 35843), (37, 35852), (39, 35888), (40, 35894), (41, 35903),

Gene: Fireball\_44 Start: 35995, Stop: 36429, Start Num: 11

Candidate Starts for Fireball\_44:

(8, 35935), (9, 35959), (Start: 11 @35995 has 15 MA's), (19, 36070), (22, 36100), (24, 36133), (25, 36148), (26, 36151), (33, 36259), (36, 36307), (37, 36316), (39, 36352), (40, 36358), (41, 36367),

Gene: Fugax\_46 Start: 36042, Stop: 36476, Start Num: 11

Candidate Starts for Fugax\_46:

(8, 35982), (9, 36006), (Start: 11 @36042 has 15 MA's), (19, 36117), (22, 36147), (24, 36180), (25, 36195), (26, 36198), (33, 36306), (36, 36354), (37, 36363), (39, 36399), (40, 36405), (41, 36414),

Gene: Mutzi\_42 Start: 36730, Stop: 37164, Start Num: 11

Candidate Starts for Mutzi\_42:

(8, 36670), (9, 36694), (Start: 11 @36730 has 15 MA's), (19, 36805), (22, 36835), (24, 36868), (25, 36883), (26, 36886), (33, 36994), (36, 37042), (39, 37087), (40, 37093), (41, 37102),

Gene: Nubi\_43 Start: 35875, Stop: 36309, Start Num: 11

Candidate Starts for Nubi\_43:

(8, 35815), (9, 35839), (Start: 11 @35875 has 15 MA's), (19, 35950), (22, 35980), (24, 36013), (25, 36028), (26, 36031), (33, 36139), (36, 36187), (37, 36196), (39, 36232), (40, 36238), (41, 36247),

Gene: Phlop\_42 Start: 35956, Stop: 36390, Start Num: 11

Candidate Starts for Phlop\_42:

(8, 35896), (9, 35920), (Start: 11 @35956 has 15 MA's), (19, 36031), (22, 36061), (24, 36094), (25, 36109), (26, 36112), (33, 36220), (36, 36268), (37, 36277), (39, 36313), (40, 36319), (41, 36328),

Gene: PinkCoffee\_45 Start: 36059, Stop: 36493, Start Num: 11

Candidate Starts for PinkCoffee\_45:

(8, 35999), (9, 36023), (Start: 11 @36059 has 15 MA's), (19, 36134), (22, 36164), (24, 36197), (25, 36212), (26, 36215), (33, 36323), (36, 36371), (37, 36380), (39, 36416), (40, 36422), (41, 36431),

Gene: PullumCavea\_42 Start: 35956, Stop: 36390, Start Num: 11

Candidate Starts for PullumCavea\_42:

(8, 35896), (9, 35920), (Start: 11 @35956 has 15 MA's), (19, 36031), (22, 36061), (24, 36094), (25, 36109), (26, 36112), (33, 36220), (36, 36268), (37, 36277), (39, 36313), (40, 36319), (41, 36328),

Gene: RayTheFireFly\_26 Start: 22130, Stop: 22573, Start Num: 10

Candidate Starts for RayTheFireFly\_26:

(1, 21734), (2, 21785), (5, 21920), (7, 21941), (9, 22118), (Start: 10 @22130 has 4 MA's), (12, 22178), (14, 22202), (18, 22229), (19, 22232), (20, 22238), (22, 22262), (23, 22274), (28, 22376), (29, 22397), (30, 22400), (31, 22409), (32, 22412), (34, 22427), (39, 22514),

Gene: Sendy\_44 Start: 36076, Stop: 36510, Start Num: 11

Candidate Starts for Sendy\_44:

(8, 36016), (9, 36040), (Start: 11 @36076 has 15 MA's), (19, 36151), (22, 36181), (24, 36214), (25, 36229), (26, 36232), (33, 36340), (36, 36388), (37, 36397), (39, 36433), (40, 36439), (41, 36448),

Gene: SharkTale\_44 Start: 36757, Stop: 37191, Start Num: 11

Candidate Starts for SharkTale\_44:

(8, 36697), (9, 36721), (Start: 11 @36757 has 15 MA's), (12, 36778), (14, 36802), (15, 36805), (17, 36817), (19, 36832), (21, 36841), (22, 36862), (25, 36910), (26, 36913), (27, 36919), (30, 37000), (33, 37021), (35, 37036), (36, 37069), (39, 37114), (40, 37120), (41, 37129), (44, 37168),

Gene: Shinji\_43 Start: 35312, Stop: 35746, Start Num: 11

Candidate Starts for Shinji\_43:

(8, 35252), (9, 35276), (Start: 11 @35312 has 15 MA's), (12, 35333), (14, 35357), (15, 35360), (19, 35387), (22, 35417), (25, 35465), (26, 35468), (27, 35474), (30, 35555), (33, 35576), (35, 35591), (36, 35624), (39, 35669), (40, 35675), (41, 35684), (44, 35723),

Gene: Sixsevenium\_46 Start: 36307, Stop: 36741, Start Num: 11

Candidate Starts for Sixsevenium\_46:

(8, 36247), (9, 36271), (Start: 11 @36307 has 15 MA's), (16, 36358), (19, 36382), (22, 36412), (24, 36445), (25, 36460), (26, 36463), (27, 36469), (33, 36571), (36, 36619), (37, 36628), (39, 36664), (40, 36670), (44, 36718),

Gene: SmokingBunny\_43 Start: 35861, Stop: 36295, Start Num: 11

Candidate Starts for SmokingBunny\_43:

(8, 35801), (9, 35825), (Start: 11 @35861 has 15 MA's), (19, 35936), (22, 35966), (24, 35999), (25, 36014), (26, 36017), (33, 36125), (36, 36173), (37, 36182), (39, 36218), (40, 36224), (41, 36233),

Gene: TillyBobJoe\_43 Start: 35665, Stop: 36099, Start Num: 11

Candidate Starts for TillyBobJoe\_43:

(8, 35605), (9, 35629), (Start: 11 @35665 has 15 MA's), (19, 35740), (22, 35770), (24, 35803), (25, 35818), (26, 35821), (33, 35929), (36, 35977), (37, 35986), (39, 36022), (40, 36028), (41, 36037),

Gene: Togo\_42 Start: 35861, Stop: 36295, Start Num: 11

Candidate Starts for Togo\_42:

(8, 35801), (9, 35825), (Start: 11 @35861 has 15 MA's), (19, 35936), (22, 35966), (24, 35999), (25, 36014), (26, 36017), (33, 36125), (36, 36173), (37, 36182), (39, 36218), (40, 36224), (41, 36233),

Gene: YungMoney\_46 Start: 38304, Stop: 38738, Start Num: 11

Candidate Starts for YungMoney\_46:

(8, 38244), (9, 38268), (Start: 11 @38304 has 15 MA's), (12, 38325), (14, 38349), (15, 38352), (17, 38364), (19, 38379), (21, 38388), (22, 38409), (25, 38457), (26, 38460), (27, 38466), (30, 38547), (33,

38568), (35, 38583), (36, 38616), (39, 38661), (40, 38667), (41, 38676), (44, 38715),