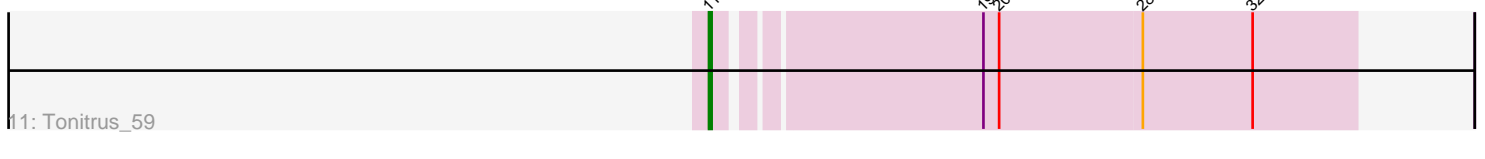
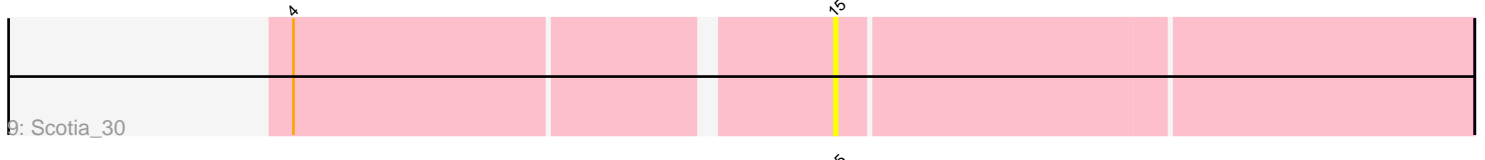
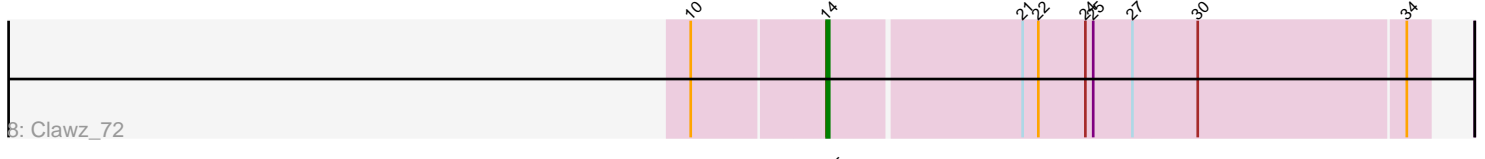
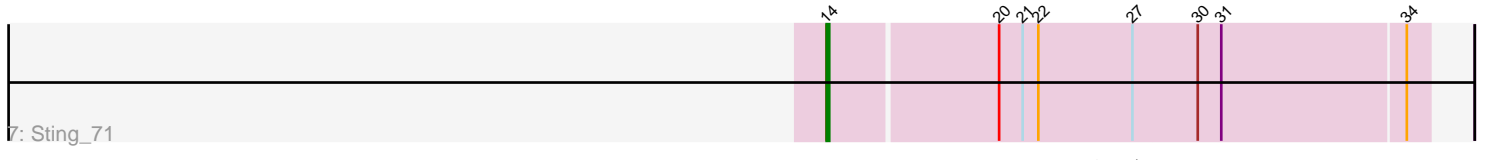
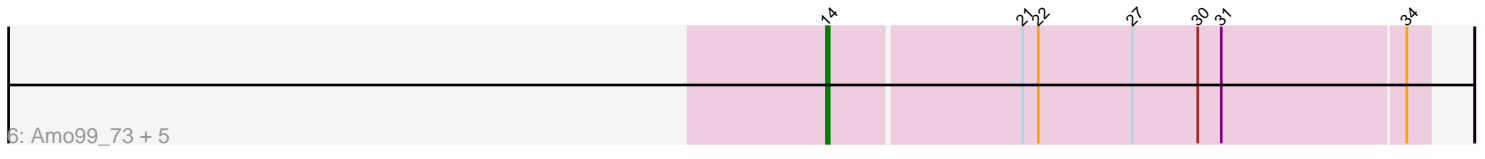
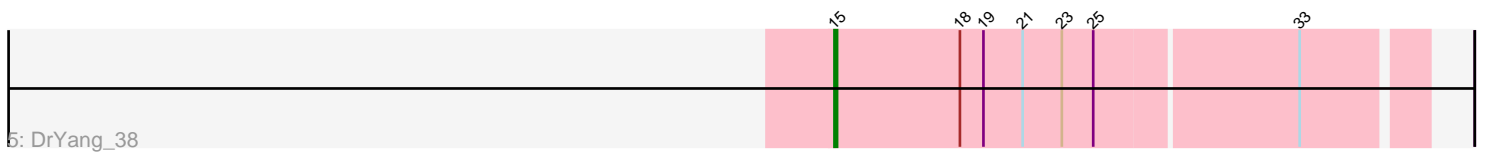
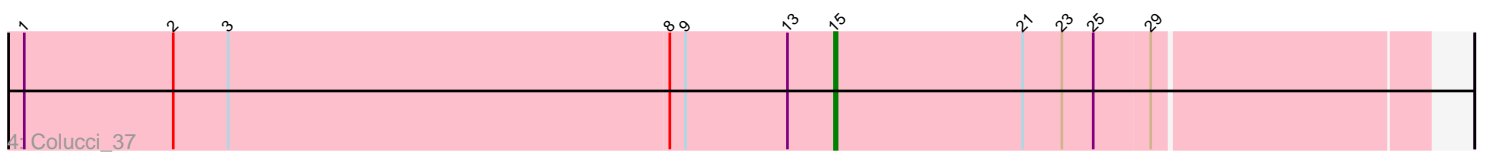
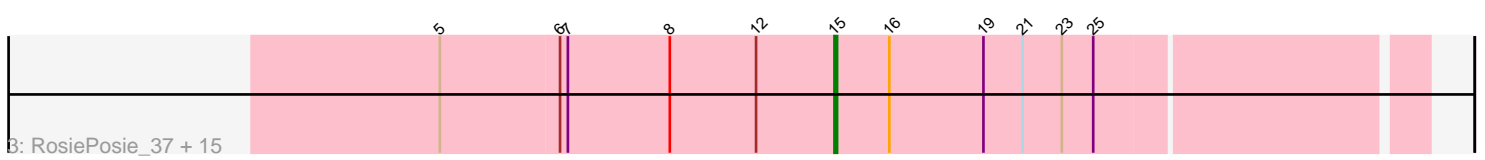
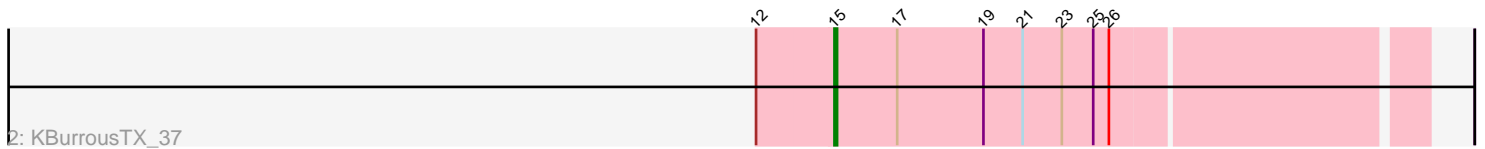
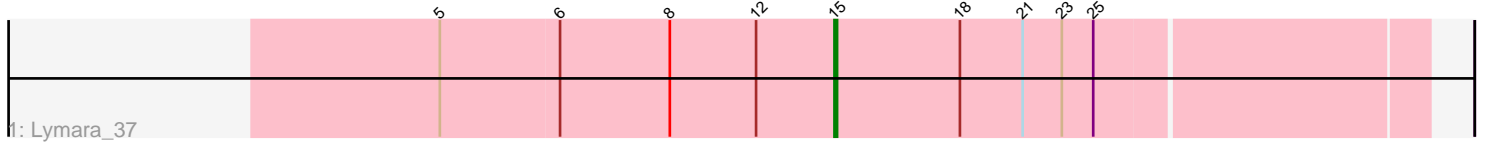


Pham 203183



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 203183 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203183 has 31 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Lymara_37
- Track 2 : KBurrousTX_37
- Track 3 : RosiePosie_37, EdgarPoe_37, Linus_37, Mordred_37, Tophat_37, JayCookie_37, HumptyDumpty_37, Chocolat_37, MoyaNatalis_37, Kabreeze_37, Conboy_37, Scavito_37, Chipper1996_370, PrincessTrina_37, JaNo_37, Chubster_37
- Track 4 : Colucci_37
- Track 5 : DrYang_38
- Track 6 : Amo99_73, Jollymon_73, Soos_68, KingstonB_73, ColdSoup_73, DonTron_72
- Track 7 : Sting_71
- Track 8 : Clawz_72
- Track 9 : Scotia_30
- Track 10 : NoSwimming_30
- Track 11 : Tonitrus_59

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

The start number called the most often in the published annotations is 15, it was called in 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_370, Chocolat_37, Chubster_37, Colucci_37, Conboy_37, DrYang_38, EdgarPoe_37, HumptyDumpty_37, JaNo_37, JayCookie_37, KBurrousTX_37, Kabreeze_37, Linus_37, Lymara_37, Mordred_37, MoyaNatalis_37, NoSwimming_30, PrincessTrina_37, RosiePosie_37, Scavito_37, Scotia_30, Tophat_37,

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

-

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

- Amo99_73, Clawz_72, ColdSoup_73, DonTron_72, Jollymon_73, KingstonB_73, Soos_68, Sting_71, Tonitrus_59,

Summary by start number:

Start 11:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonitrus_59 (singleton),

Start 14:

- Found in 8 of 31 (25.8%) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amo99_73 (CP), Clawz_72 (CP), ColdSoup_73 (CP), DonTron_72 (CP), Jollymon_73 (CP), KingstonB_73 (CP), Soos_68 (CP), Sting_71 (CP),

Start 15:

- Found in 22 of 31 (71.0%) of genes in pham
- Manual Annotations of this start: 19 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996_370 (AR), Chocolat_37 (AR), Chubster_37 (AR), Colucci_37 (AR), Conboy_37 (AR), DrYang_38 (AR), EdgarPoe_37 (AR), HumptyDumpty_37 (AR), JaNo_37 (AR), JayCookie_37 (AR), KBurrousTX_37 (AR), Kabreeze_37 (AR), Linus_37 (AR), Lymara_37 (AR), Mordred_37 (AR), MoyaNatalis_37 (AR), NoSwimming_30 (FO), PrincessTrina_37 (AR), RosiePosie_37 (AR), Scavito_37 (AR), Scotia_30 (FO), Tophat_37 (AR),

Summary by clusters:

There are 4 clusters represented in this pham: CP, AR, singleton, FO,

Info for manual annotations of cluster AR:

- Start number 15 was manually annotated 19 times for cluster AR.

Info for manual annotations of cluster CP:

- Start number 14 was manually annotated 3 times for cluster CP.

Gene Information:

Gene: Amo99_73 Start: 48277, Stop: 48501, Start Num: 14

Candidate Starts for Amo99_73:

(Start: 14 @48277 has 3 MA's), (21, 48349), (22, 48355), (27, 48391), (30, 48415), (31, 48424), (34, 48493),

Gene: Chipper1996_370 Start: 30385, Stop: 30167, Start Num: 15

Candidate Starts for Chipper1996_370:

(5, 30535), (6, 30490), (7, 30487), (8, 30448), (12, 30415), (Start: 15 @30385 has 19 MA's), (16, 30364), (19, 30328), (21, 30313), (23, 30298), (25, 30286),

Gene: Chocolat_37 Start: 30385, Stop: 30167, Start Num: 15

Candidate Starts for Chocolat_37:

(5, 30535), (6, 30490), (7, 30487), (8, 30448), (12, 30415), (Start: 15 @30385 has 19 MA's), (16, 30364), (19, 30328), (21, 30313), (23, 30298), (25, 30286),

Gene: Chubster_37 Start: 30157, Stop: 29939, Start Num: 15

Candidate Starts for Chubster_37:

(5, 30307), (6, 30262), (7, 30259), (8, 30220), (12, 30187), (Start: 15 @30157 has 19 MA's), (16, 30136), (19, 30100), (21, 30085), (23, 30070), (25, 30058),

Gene: Clawz_72 Start: 48155, Stop: 48379, Start Num: 14

Candidate Starts for Clawz_72:

(10, 48107), (Start: 14 @48155 has 3 MA's), (21, 48227), (22, 48233), (24, 48251), (25, 48254), (27, 48269), (30, 48293), (34, 48371),

Gene: ColdSoup_73 Start: 48358, Stop: 48582, Start Num: 14

Candidate Starts for ColdSoup_73:

(Start: 14 @48358 has 3 MA's), (21, 48430), (22, 48436), (27, 48472), (30, 48496), (31, 48505), (34, 48574),

Gene: Colucci_37 Start: 29963, Stop: 29742, Start Num: 15

Candidate Starts for Colucci_37:

(1, 30272), (2, 30215), (3, 30194), (8, 30026), (9, 30020), (13, 29981), (Start: 15 @29963 has 19 MA's), (21, 29891), (23, 29876), (25, 29864), (29, 29843),

Gene: Conboy_37 Start: 30384, Stop: 30166, Start Num: 15

Candidate Starts for Conboy_37:

(5, 30534), (6, 30489), (7, 30486), (8, 30447), (12, 30414), (Start: 15 @30384 has 19 MA's), (16, 30363), (19, 30327), (21, 30312), (23, 30297), (25, 30285),

Gene: DonTron_72 Start: 48395, Stop: 48619, Start Num: 14

Candidate Starts for DonTron_72:

(Start: 14 @48395 has 3 MA's), (21, 48467), (22, 48473), (27, 48509), (30, 48533), (31, 48542), (34, 48611),

Gene: DrYang_38 Start: 31723, Stop: 31505, Start Num: 15

Candidate Starts for DrYang_38:

(Start: 15 @31723 has 19 MA's), (18, 31675), (19, 31666), (21, 31651), (23, 31636), (25, 31624), (33, 31549),

Gene: EdgarPoe_37 Start: 30384, Stop: 30166, Start Num: 15

Candidate Starts for EdgarPoe_37:

(5, 30534), (6, 30489), (7, 30486), (8, 30447), (12, 30414), (Start: 15 @30384 has 19 MA's), (16, 30363), (19, 30327), (21, 30312), (23, 30297), (25, 30285),

Gene: HumptyDumpty_37 Start: 30383, Stop: 30165, Start Num: 15

Candidate Starts for HumptyDumpty_37:

(5, 30533), (6, 30488), (7, 30485), (8, 30446), (12, 30413), (Start: 15 @30383 has 19 MA's), (16, 30362), (19, 30326), (21, 30311), (23, 30296), (25, 30284),

Gene: JaNo_37 Start: 30383, Stop: 30165, Start Num: 15

Candidate Starts for JaNo_37:

(5, 30533), (6, 30488), (7, 30485), (8, 30446), (12, 30413), (Start: 15 @30383 has 19 MA's), (16, 30362), (19, 30326), (21, 30311), (23, 30296), (25, 30284),

Gene: JayCookie_37 Start: 30387, Stop: 30169, Start Num: 15

Candidate Starts for JayCookie_37:

(5, 30537), (6, 30492), (7, 30489), (8, 30450), (12, 30417), (Start: 15 @30387 has 19 MA's), (16, 30366), (19, 30330), (21, 30315), (23, 30300), (25, 30288),

Gene: Jollymon_73 Start: 48358, Stop: 48582, Start Num: 14

Candidate Starts for Jollymon_73:

(Start: 14 @48358 has 3 MA's), (21, 48430), (22, 48436), (27, 48472), (30, 48496), (31, 48505), (34, 48574),

Gene: KBurrousTX_37 Start: 31486, Stop: 31268, Start Num: 15

Candidate Starts for KBurrousTX_37:

(12, 31513), (Start: 15 @31486 has 19 MA's), (17, 31462), (19, 31429), (21, 31414), (23, 31399), (25, 31387), (26, 31381),

Gene: Kabreeze_37 Start: 30383, Stop: 30165, Start Num: 15

Candidate Starts for Kabreeze_37:

(5, 30533), (6, 30488), (7, 30485), (8, 30446), (12, 30413), (Start: 15 @30383 has 19 MA's), (16, 30362), (19, 30326), (21, 30311), (23, 30296), (25, 30284),

Gene: KingstonB_73 Start: 47833, Stop: 48057, Start Num: 14

Candidate Starts for KingstonB_73:

(Start: 14 @47833 has 3 MA's), (21, 47905), (22, 47911), (27, 47947), (30, 47971), (31, 47980), (34, 48049),

Gene: Linus_37 Start: 30384, Stop: 30166, Start Num: 15

Candidate Starts for Linus_37:

(5, 30534), (6, 30489), (7, 30486), (8, 30447), (12, 30414), (Start: 15 @30384 has 19 MA's), (16, 30363), (19, 30327), (21, 30312), (23, 30297), (25, 30285),

Gene: Lymara_37 Start: 30202, Stop: 29981, Start Num: 15

Candidate Starts for Lymara_37:

(5, 30352), (6, 30307), (8, 30265), (12, 30232), (Start: 15 @30202 has 19 MA's), (18, 30154), (21, 30130), (23, 30115), (25, 30103),

Gene: Mordred_37 Start: 30383, Stop: 30165, Start Num: 15

Candidate Starts for Mordred_37:

(5, 30533), (6, 30488), (7, 30485), (8, 30446), (12, 30413), (Start: 15 @30383 has 19 MA's), (16, 30362), (19, 30326), (21, 30311), (23, 30296), (25, 30284),

Gene: MoyaNatalis_37 Start: 30387, Stop: 30169, Start Num: 15

Candidate Starts for MoyaNatalis_37:

(5, 30537), (6, 30492), (7, 30489), (8, 30450), (12, 30417), (Start: 15 @30387 has 19 MA's), (16, 30366), (19, 30330), (21, 30315), (23, 30300), (25, 30288),

Gene: NoSwimming_30 Start: 25642, Stop: 25406, Start Num: 15

Candidate Starts for NoSwimming_30:

(Start: 15 @25642 has 19 MA's),

Gene: PrincessTrina_37 Start: 30387, Stop: 30169, Start Num: 15

Candidate Starts for PrincessTrina_37:

(5, 30537), (6, 30492), (7, 30489), (8, 30450), (12, 30417), (Start: 15 @30387 has 19 MA's), (16, 30366), (19, 30330), (21, 30315), (23, 30300), (25, 30288),

Gene: RosiePosie_37 Start: 30386, Stop: 30168, Start Num: 15

Candidate Starts for RosiePosie_37:

(5, 30536), (6, 30491), (7, 30488), (8, 30449), (12, 30416), (Start: 15 @30386 has 19 MA's), (16, 30365), (19, 30329), (21, 30314), (23, 30299), (25, 30287),

Gene: Scavito_37 Start: 30384, Stop: 30166, Start Num: 15

Candidate Starts for Scavito_37:

(5, 30534), (6, 30489), (7, 30486), (8, 30447), (12, 30414), (Start: 15 @30384 has 19 MA's), (16, 30363), (19, 30327), (21, 30312), (23, 30297), (25, 30285),

Gene: Scotia_30 Start: 25627, Stop: 25391, Start Num: 15

Candidate Starts for Scotia_30:

(4, 25822), (Start: 15 @25627 has 19 MA's),

Gene: Soos_68 Start: 47562, Stop: 47786, Start Num: 14

Candidate Starts for Soos_68:

(Start: 14 @47562 has 3 MA's), (21, 47634), (22, 47640), (27, 47676), (30, 47700), (31, 47709), (34, 47778),

Gene: Sting_71 Start: 48001, Stop: 48225, Start Num: 14

Candidate Starts for Sting_71:

(Start: 14 @48001 has 3 MA's), (20, 48064), (21, 48073), (22, 48079), (27, 48115), (30, 48139), (31, 48148), (34, 48217),

Gene: Tonitrus_59 Start: 44270, Stop: 44503, Start Num: 11

Candidate Starts for Tonitrus_59:

(Start: 11 @44270 has 1 MA's), (19, 44363), (20, 44369), (28, 44423), (32, 44465),

Gene: Tophat_37 Start: 30385, Stop: 30167, Start Num: 15

Candidate Starts for Tophat_37:

(5, 30535), (6, 30490), (7, 30487), (8, 30448), (12, 30415), (Start: 15 @30385 has 19 MA's), (16, 30364), (19, 30328), (21, 30313), (23, 30298), (25, 30286),