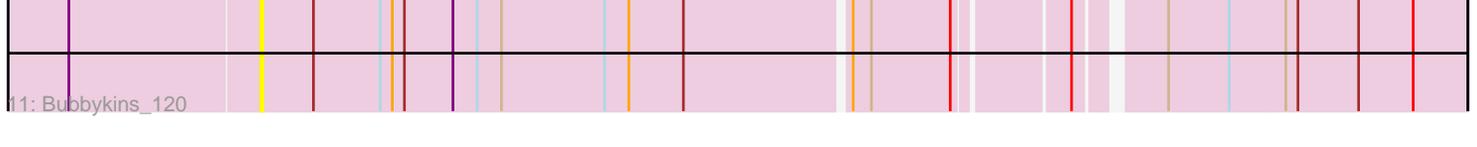
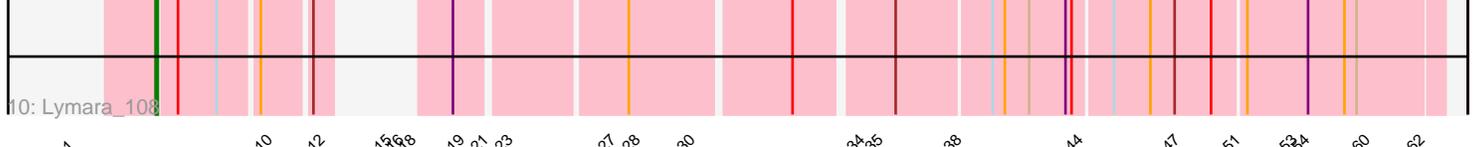
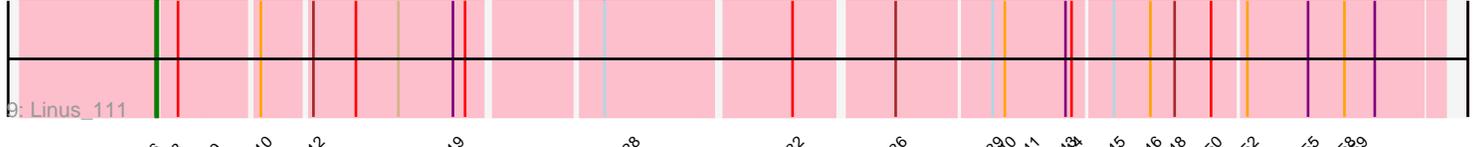
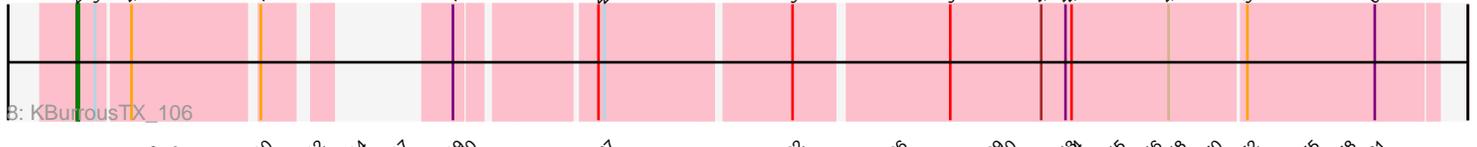
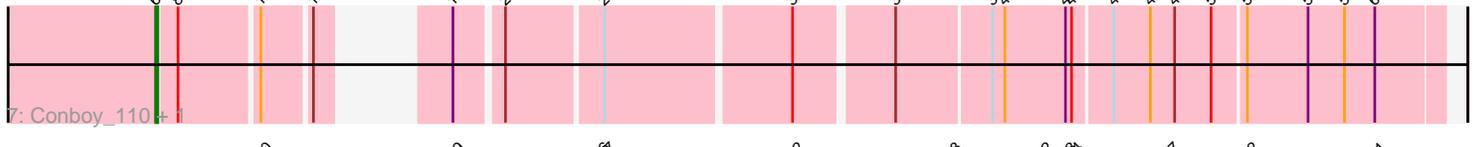
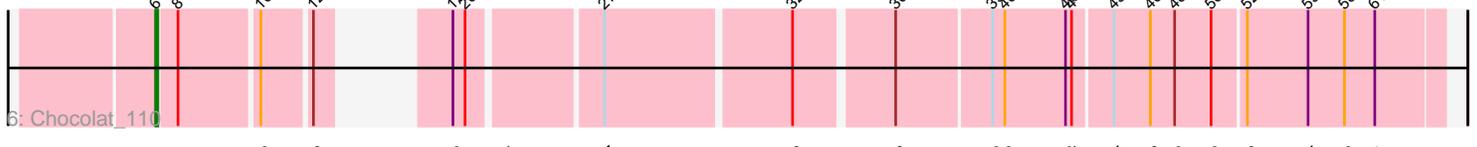
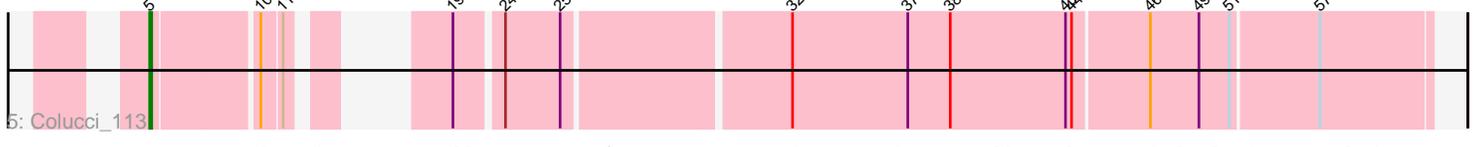
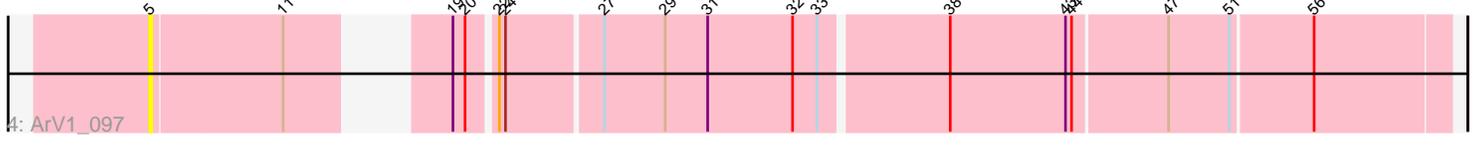
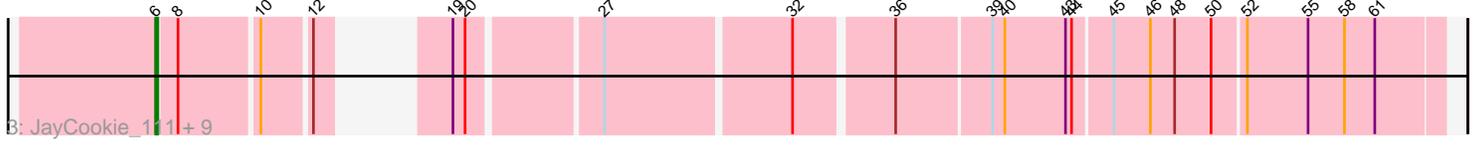
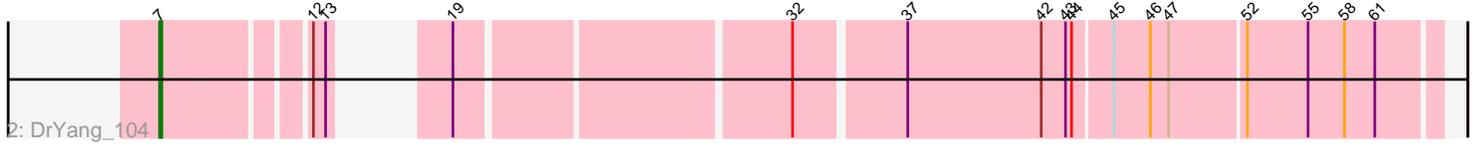
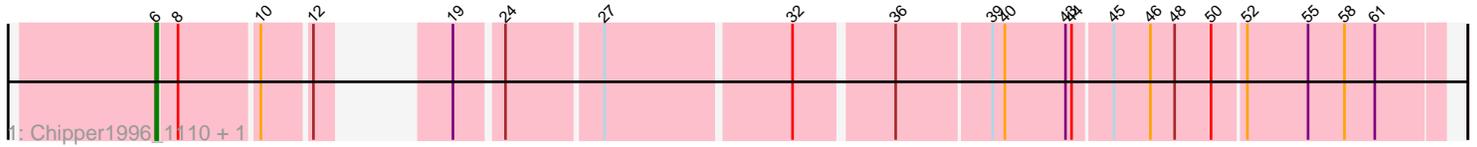


Pham 291526



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 291526 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291526 has 22 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Chipper1996_1110, Tophat_110
- Track 2 : DrYang_104
- Track 3 : JayCookie_111, PrincessTrina_111, MoyaNatalis_111, RosiePosie_111, Mordred_110, Chubster_111, HumptyDumpty_110, JaNo_109, Kabreeze_110, Scavito_111
- Track 4 : ArV1_097
- Track 5 : Colucci_113
- Track 6 : Chocolat_110
- Track 7 : Conboy_110, EdgarPoe_110
- Track 8 : KBurrousTX_106
- Track 9 : Linus_111
- Track 10 : Lymara_108
- Track 11 : Bubbykins_120

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

The start number called the most often in the published annotations is 6, it was called in 16 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_1110, Chocolat_110, Chubster_111, Conboy_110, EdgarPoe_110, HumptyDumpty_110, JaNo_109, JayCookie_111, Kabreeze_110, Linus_111, Lymara_108, Mordred_110, MoyaNatalis_111, PrincessTrina_111, RosiePosie_111, Scavito_111, Tophat_110,

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

-

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

- ArV1_097, Bubbykins_120, Colucci_113, DrYang_104, KBurrousTX_106,

Summary by start number:

Start 2:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KBurrousTX_106 (AR),

Start 5:

- Found in 2 of 22 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV1_097 (AR), Colucci_113 (AR),

Start 6:

- Found in 17 of 22 (77.3%) of genes in pham
- Manual Annotations of this start: 16 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996_1110 (AR), Chocolat_110 (AR), Chubster_111 (AR), Conboy_110 (AR), EdgarPoe_110 (AR), HumptyDumpty_110 (AR), JaNo_109 (AR), JayCookie_111 (AR), Kabreeze_110 (AR), Linus_111 (AR), Lymara_108 (AR), Mordred_110 (AR), MoyaNatalis_111 (AR), PrincessTrina_111 (AR), RosiePosie_111 (AR), Scavito_111 (AR), Tophat_110 (AR),

Start 7:

- Found in 1 of 22 (4.5%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrYang_104 (AR),

Start 10:

- Found in 20 of 22 (90.9%) of genes in pham
- No Manual Annotations of this start.
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Bubbykins_120 (UNK),

Summary by clusters:

There are 2 clusters represented in this pham: UNK, AR,

Info for manual annotations of cluster AR:

- Start number 2 was manually annotated 1 time for cluster AR.
- Start number 5 was manually annotated 1 time for cluster AR.
- Start number 6 was manually annotated 16 times for cluster AR.
- Start number 7 was manually annotated 1 time for cluster AR.

Gene Information:

Gene: ArV1_097 Start: 68853, Stop: 69434, Start Num: 5

Candidate Starts for ArV1_097:

(Start: 5 @68853 has 1 MA's), (11, 68916), (19, 68964), (20, 68970), (22, 68982), (24, 68985), (27, 69030), (29, 69060), (31, 69081), (32, 69123), (33, 69135), (38, 69195), (43, 69252), (44, 69255), (47, 69300), (51, 69330), (56, 69369),

Gene: Bubbykins_120 Start: 68001, Stop: 68567, Start Num: 10

Candidate Starts for Bubbykins_120:

(1, 67908), (10, 68001), (12, 68025), (15, 68058), (16, 68064), (18, 68070), (19, 68094), (21, 68106), (23, 68118), (27, 68169), (28, 68181), (30, 68208), (34, 68286), (35, 68295), (38, 68334), (44, 68385), (47, 68421), (51, 68451), (53, 68478), (54, 68484), (60, 68514), (62, 68541),

Gene: Chipper1996_1110 Start: 69161, Stop: 69712, Start Num: 6

Candidate Starts for Chipper1996_1110:

(Start: 6 @69161 has 16 MA's), (8, 69170), (10, 69206), (12, 69227), (19, 69254), (24, 69275), (27, 69320), (32, 69407), (36, 69452), (39, 69497), (40, 69503), (43, 69533), (44, 69536), (45, 69554), (46, 69572), (48, 69584), (50, 69602), (52, 69617), (55, 69647), (58, 69665), (61, 69680),

Gene: Chocolat_110 Start: 68869, Stop: 69420, Start Num: 6

Candidate Starts for Chocolat_110:

(Start: 6 @68869 has 16 MA's), (8, 68878), (10, 68914), (12, 68935), (19, 68962), (20, 68968), (27, 69028), (32, 69115), (36, 69160), (39, 69205), (40, 69211), (43, 69241), (44, 69244), (45, 69262), (46, 69280), (48, 69292), (50, 69310), (52, 69325), (55, 69355), (58, 69373), (61, 69388),

Gene: Chubster_111 Start: 69329, Stop: 69880, Start Num: 6

Candidate Starts for Chubster_111:

(Start: 6 @69329 has 16 MA's), (8, 69338), (10, 69374), (12, 69395), (19, 69422), (20, 69428), (27, 69488), (32, 69575), (36, 69620), (39, 69665), (40, 69671), (43, 69701), (44, 69704), (45, 69722), (46, 69740), (48, 69752), (50, 69770), (52, 69785), (55, 69815), (58, 69833), (61, 69848),

Gene: Colucci_113 Start: 69755, Stop: 70312, Start Num: 5

Candidate Starts for Colucci_113:

(Start: 5 @69755 has 1 MA's), (10, 69803), (11, 69812), (19, 69851), (24, 69872), (25, 69899), (32, 70004), (37, 70061), (38, 70082), (43, 70139), (44, 70142), (46, 70178), (49, 70202), (51, 70217), (57, 70259),

Gene: Conboy_110 Start: 69167, Stop: 69718, Start Num: 6

Candidate Starts for Conboy_110:

(Start: 6 @69167 has 16 MA's), (8, 69176), (10, 69212), (12, 69233), (19, 69260), (24, 69281), (27, 69326), (32, 69413), (36, 69458), (39, 69503), (40, 69509), (43, 69539), (44, 69542), (45, 69560), (46, 69578), (48, 69590), (50, 69608), (52, 69623), (55, 69653), (58, 69671), (61, 69686),

Gene: DrYang_104 Start: 68128, Stop: 68676, Start Num: 7

Candidate Starts for DrYang_104:

(Start: 7 @68128 has 1 MA's), (12, 68191), (13, 68197), (19, 68218), (32, 68371), (37, 68422), (42, 68488), (43, 68500), (44, 68503), (45, 68521), (46, 68539), (47, 68548), (52, 68584), (55, 68614), (58, 68632), (61, 68647),

Gene: EdgarPoe_110 Start: 69247, Stop: 69798, Start Num: 6

Candidate Starts for EdgarPoe_110:

(Start: 6 @69247 has 16 MA's), (8, 69256), (10, 69292), (12, 69313), (19, 69340), (24, 69361), (27, 69406), (32, 69493), (36, 69538), (39, 69583), (40, 69589), (43, 69619), (44, 69622), (45, 69640), (46, 69658), (48, 69670), (50, 69688), (52, 69703), (55, 69733), (58, 69751), (61, 69766),

Gene: HumptyDumpty_110 Start: 69049, Stop: 69600, Start Num: 6

Candidate Starts for HumptyDumpty_110:

(Start: 6 @69049 has 16 MA's), (8, 69058), (10, 69094), (12, 69115), (19, 69142), (20, 69148), (27, 69208), (32, 69295), (36, 69340), (39, 69385), (40, 69391), (43, 69421), (44, 69424), (45, 69442), (46,

69460), (48, 69472), (50, 69490), (52, 69505), (55, 69535), (58, 69553), (61, 69568),

Gene: JaNo_109 Start: 69020, Stop: 69571, Start Num: 6

Candidate Starts for JaNo_109:

(Start: 6 @69020 has 16 MA's), (8, 69029), (10, 69065), (12, 69086), (19, 69113), (20, 69119), (27, 69179), (32, 69266), (36, 69311), (39, 69356), (40, 69362), (43, 69392), (44, 69395), (45, 69413), (46, 69431), (48, 69443), (50, 69461), (52, 69476), (55, 69506), (58, 69524), (61, 69539),

Gene: JayCookie_111 Start: 69433, Stop: 69984, Start Num: 6

Candidate Starts for JayCookie_111:

(Start: 6 @69433 has 16 MA's), (8, 69442), (10, 69478), (12, 69499), (19, 69526), (20, 69532), (27, 69592), (32, 69679), (36, 69724), (39, 69769), (40, 69775), (43, 69805), (44, 69808), (45, 69826), (46, 69844), (48, 69856), (50, 69874), (52, 69889), (55, 69919), (58, 69937), (61, 69952),

Gene: KBurrousTX_106 Start: 70044, Stop: 70625, Start Num: 2

Candidate Starts for KBurrousTX_106:

(Start: 2 @70044 has 1 MA's), (3, 70053), (4, 70068), (10, 70125), (19, 70167), (26, 70227), (27, 70230), (32, 70317), (38, 70389), (42, 70434), (43, 70446), (44, 70449), (47, 70497), (52, 70533), (61, 70596),

Gene: Kabreeze_110 Start: 69106, Stop: 69657, Start Num: 6

Candidate Starts for Kabreeze_110:

(Start: 6 @69106 has 16 MA's), (8, 69115), (10, 69151), (12, 69172), (19, 69199), (20, 69205), (27, 69265), (32, 69352), (36, 69397), (39, 69442), (40, 69448), (43, 69478), (44, 69481), (45, 69499), (46, 69517), (48, 69529), (50, 69547), (52, 69562), (55, 69592), (58, 69610), (61, 69625),

Gene: Linus_111 Start: 69555, Stop: 70148, Start Num: 6

Candidate Starts for Linus_111:

(Start: 6 @69555 has 16 MA's), (8, 69564), (10, 69600), (12, 69621), (14, 69642), (17, 69663), (19, 69690), (20, 69696), (27, 69756), (32, 69843), (36, 69888), (39, 69933), (40, 69939), (43, 69969), (44, 69972), (45, 69990), (46, 70008), (48, 70020), (50, 70038), (52, 70053), (55, 70083), (58, 70101), (61, 70116),

Gene: Lymara_108 Start: 67834, Stop: 68385, Start Num: 6

Candidate Starts for Lymara_108:

(Start: 6 @67834 has 16 MA's), (8, 67843), (9, 67861), (10, 67879), (12, 67900), (19, 67927), (28, 68005), (32, 68080), (36, 68125), (39, 68170), (40, 68176), (41, 68188), (43, 68206), (44, 68209), (45, 68227), (46, 68245), (48, 68257), (50, 68275), (52, 68290), (55, 68320), (58, 68338), (59, 68344),

Gene: Mordred_110 Start: 69145, Stop: 69696, Start Num: 6

Candidate Starts for Mordred_110:

(Start: 6 @69145 has 16 MA's), (8, 69154), (10, 69190), (12, 69211), (19, 69238), (20, 69244), (27, 69304), (32, 69391), (36, 69436), (39, 69481), (40, 69487), (43, 69517), (44, 69520), (45, 69538), (46, 69556), (48, 69568), (50, 69586), (52, 69601), (55, 69631), (58, 69649), (61, 69664),

Gene: MoyaNatalis_111 Start: 68879, Stop: 69430, Start Num: 6

Candidate Starts for MoyaNatalis_111:

(Start: 6 @68879 has 16 MA's), (8, 68888), (10, 68924), (12, 68945), (19, 68972), (20, 68978), (27, 69038), (32, 69125), (36, 69170), (39, 69215), (40, 69221), (43, 69251), (44, 69254), (45, 69272), (46, 69290), (48, 69302), (50, 69320), (52, 69335), (55, 69365), (58, 69383), (61, 69398),

Gene: PrincessTrina_111 Start: 69336, Stop: 69887, Start Num: 6

Candidate Starts for PrincessTrina_111:

(Start: 6 @69336 has 16 MA's), (8, 69345), (10, 69381), (12, 69402), (19, 69429), (20, 69435), (27, 69495), (32, 69582), (36, 69627), (39, 69672), (40, 69678), (43, 69708), (44, 69711), (45, 69729), (46, 69747), (48, 69759), (50, 69777), (52, 69792), (55, 69822), (58, 69840), (61, 69855),

Gene: RosiePosie_111 Start: 69467, Stop: 70018, Start Num: 6

Candidate Starts for RosiePosie_111:

(Start: 6 @69467 has 16 MA's), (8, 69476), (10, 69512), (12, 69533), (19, 69560), (20, 69566), (27, 69626), (32, 69713), (36, 69758), (39, 69803), (40, 69809), (43, 69839), (44, 69842), (45, 69860), (46, 69878), (48, 69890), (50, 69908), (52, 69923), (55, 69953), (58, 69971), (61, 69986),

Gene: Scavito_111 Start: 69194, Stop: 69745, Start Num: 6

Candidate Starts for Scavito_111:

(Start: 6 @69194 has 16 MA's), (8, 69203), (10, 69239), (12, 69260), (19, 69287), (20, 69293), (27, 69353), (32, 69440), (36, 69485), (39, 69530), (40, 69536), (43, 69566), (44, 69569), (45, 69587), (46, 69605), (48, 69617), (50, 69635), (52, 69650), (55, 69680), (58, 69698), (61, 69713),

Gene: Tophat_110 Start: 69162, Stop: 69713, Start Num: 6

Candidate Starts for Tophat_110:

(Start: 6 @69162 has 16 MA's), (8, 69171), (10, 69207), (12, 69228), (19, 69255), (24, 69276), (27, 69321), (32, 69408), (36, 69453), (39, 69498), (40, 69504), (43, 69534), (44, 69537), (45, 69555), (46, 69573), (48, 69585), (50, 69603), (52, 69618), (55, 69648), (58, 69666), (61, 69681),