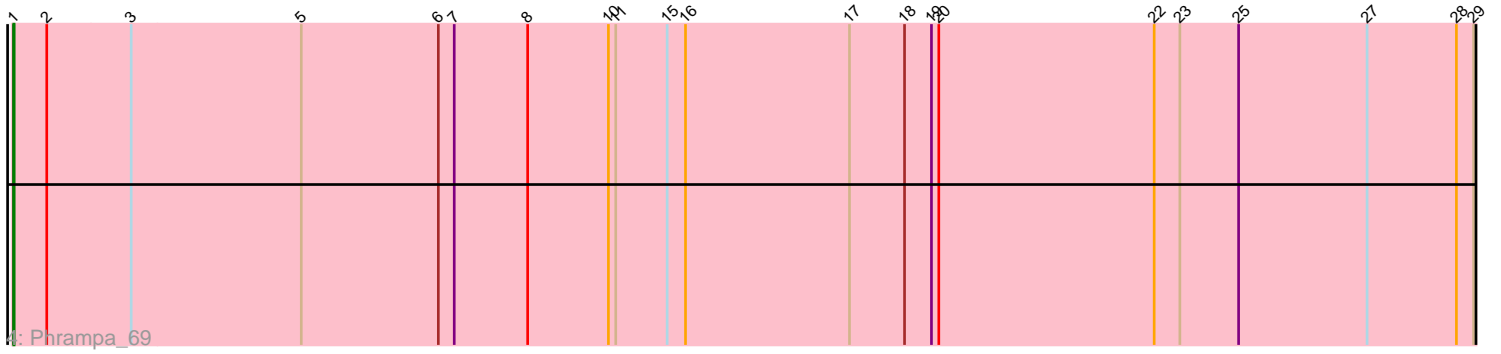
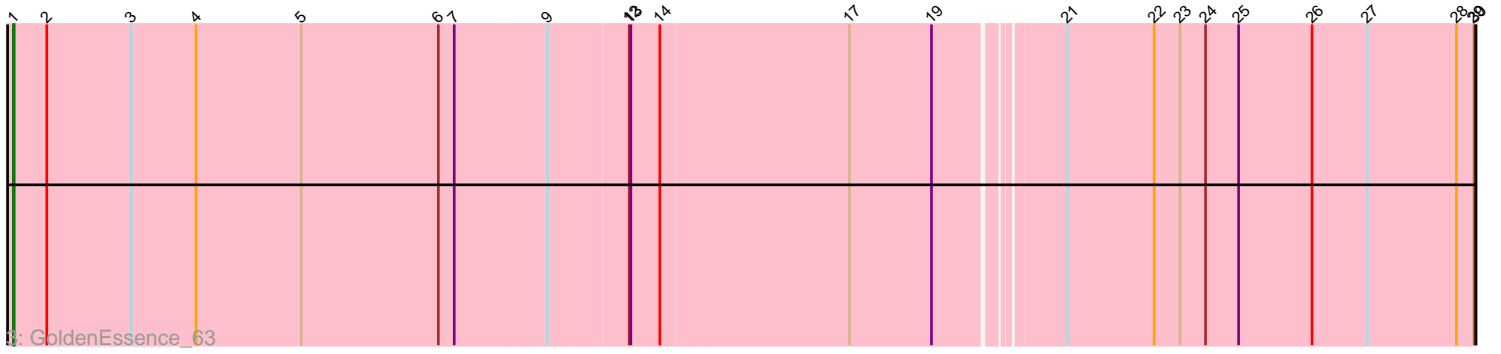
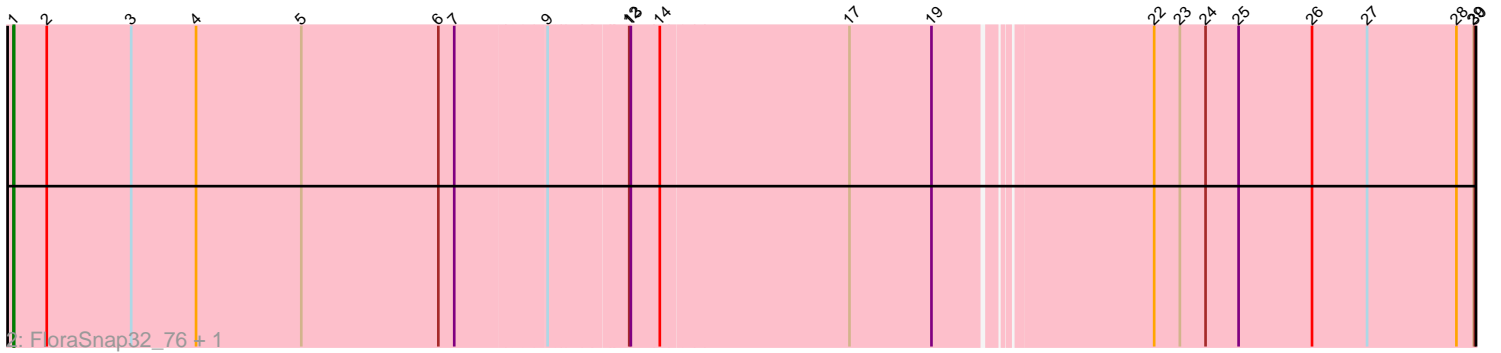
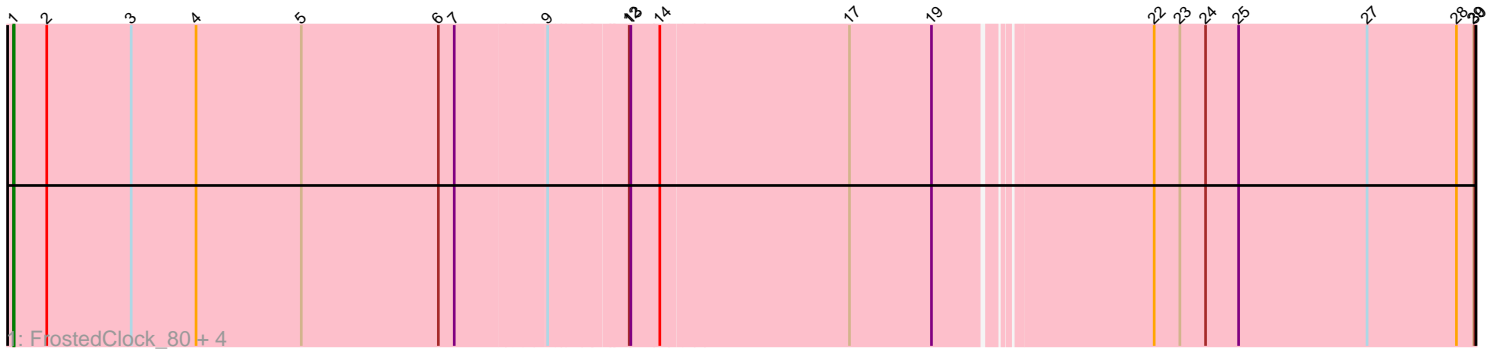


Zoomed Pham 295362



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 295362 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295362 has 9 members, 3 are drafts.

Phages represented in each track:

- Track 1 : FrostedClock_80, Bloom_81, Talia1610_77, Mimi_77, Racecar_78
- Track 2 : FloraSnap32_76, Patbob_75
- Track 3 : GoldenEssence_63
- Track 4 : Phrampa_69

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_81, FloraSnap32_76, FrostedClock_80, GoldenEssence_63, Mimi_77, Patbob_75, Phrampa_69, Racecar_78, Talia1610_77,

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

-

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

-

Summary by start number:

Start 1:

- Found in 9 of 9 (100.0%) of genes in pham
- Manual Annotations of this start: 6 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_81 (FC), FloraSnap32_76 (FC), FrostedClock_80 (FC), GoldenEssence_63 (FC), Mimi_77 (FC), Patbob_75 (FC), Phrampa_69 (FC), Racecar_78 (FC), Talia1610_77 (FC),

Summary by clusters:

There is one cluster represented in this pham: FC

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Bloom_81 Start: 35379, Stop: 43508, Start Num: 1

Candidate Starts for Bloom_81:

(Start: 1 @35379 has 6 MA's), (2, 35460), (3, 35667), (4, 35826), (5, 36084), (6, 36420), (7, 36459), (9, 36657), (12, 36831), (13, 36834), (14, 36903), (17, 37347), (19, 37548), (22, 38037), (23, 38100), (24, 38163), (25, 38244), (27, 38559), (28, 38778), (29, 38820), (30, 38823), (31, 38844), (33, 38913), (34, 38925), (36, 38955), (37, 38997), (38, 39048), (40, 39084), (42, 39240), (44, 39426), (47, 39546), (53, 40347), (54, 40662), (55, 40725), (56, 41139), (58, 41253), (59, 41337), (61, 41394), (65, 41700), (66, 41712), (68, 41757), (71, 41910), (72, 41970), (75, 42312), (76, 42321), (78, 42393), (79, 42399), (80, 42411), (81, 42462), (82, 42537), (84, 42729), (86, 42876), (87, 42885), (88, 42909), (89, 43023), (90, 43137), (91, 43143), (92, 43173), (93, 43206), (94, 43233), (95, 43236), (96, 43242), (97, 43269), (99, 43317), (100, 43362), (102, 43428),

Gene: FloraSnap32_76 Start: 33834, Stop: 41975, Start Num: 1

Candidate Starts for FloraSnap32_76:

(Start: 1 @33834 has 6 MA's), (2, 33915), (3, 34122), (4, 34281), (5, 34539), (6, 34875), (7, 34914), (9, 35112), (12, 35286), (13, 35289), (14, 35358), (17, 35802), (19, 36003), (22, 36492), (23, 36555), (24, 36618), (25, 36699), (26, 36879), (27, 37014), (28, 37233), (29, 37275), (30, 37278), (31, 37299), (32, 37323), (33, 37368), (34, 37380), (36, 37410), (37, 37452), (38, 37503), (40, 37539), (42, 37695), (43, 37716), (44, 37881), (47, 38001), (48, 38052), (49, 38115), (51, 38349), (52, 38397), (56, 39603), (57, 39657), (58, 39717), (59, 39801), (60, 39840), (62, 39876), (63, 39918), (64, 40062), (65, 40167), (66, 40179), (68, 40224), (69, 40254), (70, 40353), (72, 40437), (74, 40593), (75, 40779), (77, 40809), (78, 40860), (79, 40866), (80, 40878), (81, 40929), (86, 41343), (88, 41376), (89, 41490), (90, 41604), (92, 41640), (93, 41673), (94, 41700), (95, 41703), (97, 41736), (98, 41769), (99, 41784), (100, 41829), (102, 41895),

Gene: FrostedClock_80 Start: 34867, Stop: 42996, Start Num: 1

Candidate Starts for FrostedClock_80:

(Start: 1 @34867 has 6 MA's), (2, 34948), (3, 35155), (4, 35314), (5, 35572), (6, 35908), (7, 35947), (9, 36145), (12, 36319), (13, 36322), (14, 36391), (17, 36835), (19, 37036), (22, 37525), (23, 37588), (24, 37651), (25, 37732), (27, 38047), (28, 38266), (29, 38308), (30, 38311), (31, 38332), (33, 38401), (34, 38413), (36, 38443), (37, 38485), (38, 38536), (40, 38572), (42, 38728), (44, 38914), (47, 39034), (53, 39835), (54, 40150), (55, 40213), (56, 40627), (58, 40741), (59, 40825), (61, 40882), (65, 41188), (66, 41200), (68, 41245), (71, 41398), (72, 41458), (75, 41800), (76, 41809), (78, 41881), (79, 41887), (80, 41899), (81, 41950), (82, 42025), (84, 42217), (86, 42364), (87, 42373), (88, 42397), (89, 42511), (90, 42625), (91, 42631), (92, 42661), (93, 42694), (94, 42721), (95, 42724), (96, 42730), (97, 42757), (99, 42805), (100, 42850), (102, 42916),

Gene: GoldenEssence_63 Start: 29172, Stop: 37301, Start Num: 1

Candidate Starts for GoldenEssence_63:

(Start: 1 @29172 has 6 MA's), (2, 29253), (3, 29460), (4, 29619), (5, 29877), (6, 30213), (7, 30252), (9, 30450), (12, 30624), (13, 30627), (14, 30696), (17, 31140), (19, 31341), (21, 31617), (22, 31830), (23, 31893), (24, 31956), (25, 32037), (26, 32217), (27, 32352), (28, 32571), (29, 32613), (30, 32616), (31, 32637), (33, 32706), (34, 32718), (36, 32748), (37, 32790), (38, 32841), (40, 32877), (42, 33033), (44, 33219), (47, 33339), (51, 33687), (52, 33735), (54, 34455), (56, 34932), (58, 35046), (59, 35130), (65, 35493), (66, 35505), (67, 35520), (68, 35550), (69, 35580), (71, 35703), (76, 36114), (78, 36186), (79, 36192), (81, 36255), (82, 36330), (83, 36489), (85, 36627), (86, 36669), (87, 36678), (88, 36702), (89,

36816), (92, 36966), (93, 36999), (94, 37026), (95, 37029), (97, 37062), (99, 37110), (100, 37155), (101, 37197), (102, 37221),

Gene: Mimi_77 Start: 34726, Stop: 42855, Start Num: 1

Candidate Starts for Mimi_77:

(Start: 1 @34726 has 6 MA's), (2, 34807), (3, 35014), (4, 35173), (5, 35431), (6, 35767), (7, 35806), (9, 36004), (12, 36178), (13, 36181), (14, 36250), (17, 36694), (19, 36895), (22, 37384), (23, 37447), (24, 37510), (25, 37591), (27, 37906), (28, 38125), (29, 38167), (30, 38170), (31, 38191), (33, 38260), (34, 38272), (36, 38302), (37, 38344), (38, 38395), (40, 38431), (42, 38587), (44, 38773), (47, 38893), (53, 39694), (54, 40009), (55, 40072), (56, 40486), (58, 40600), (59, 40684), (61, 40741), (65, 41047), (66, 41059), (68, 41104), (71, 41257), (72, 41317), (75, 41659), (76, 41668), (78, 41740), (79, 41746), (80, 41758), (81, 41809), (82, 41884), (84, 42076), (86, 42223), (87, 42232), (88, 42256), (89, 42370), (90, 42484), (91, 42490), (92, 42520), (93, 42553), (94, 42580), (95, 42583), (96, 42589), (97, 42616), (99, 42664), (100, 42709), (102, 42775),

Gene: Patbob_75 Start: 35019, Stop: 43160, Start Num: 1

Candidate Starts for Patbob_75:

(Start: 1 @35019 has 6 MA's), (2, 35100), (3, 35307), (4, 35466), (5, 35724), (6, 36060), (7, 36099), (9, 36297), (12, 36471), (13, 36474), (14, 36543), (17, 36987), (19, 37188), (22, 37677), (23, 37740), (24, 37803), (25, 37884), (26, 38064), (27, 38199), (28, 38418), (29, 38460), (30, 38463), (31, 38484), (32, 38508), (33, 38553), (34, 38565), (36, 38595), (37, 38637), (38, 38688), (40, 38724), (42, 38880), (43, 38901), (44, 39066), (47, 39186), (48, 39237), (49, 39300), (51, 39534), (52, 39582), (56, 40788), (57, 40842), (58, 40902), (59, 40986), (60, 41025), (62, 41061), (63, 41103), (64, 41247), (65, 41352), (66, 41364), (68, 41409), (69, 41439), (70, 41538), (72, 41622), (74, 41778), (75, 41964), (77, 41994), (78, 42045), (79, 42051), (80, 42063), (81, 42114), (86, 42528), (88, 42561), (89, 42675), (90, 42789), (92, 42825), (93, 42858), (94, 42885), (95, 42888), (97, 42921), (98, 42954), (99, 42969), (100, 43014), (102, 43080),

Gene: Phrampa_69 Start: 32059, Stop: 40398, Start Num: 1

Candidate Starts for Phrampa_69:

(Start: 1 @32059 has 6 MA's), (2, 32140), (3, 32344), (5, 32758), (6, 33094), (7, 33133), (8, 33313), (10, 33511), (11, 33529), (15, 33655), (16, 33700), (17, 34102), (18, 34237), (19, 34303), (20, 34321), (22, 34849), (23, 34912), (25, 35056), (27, 35371), (28, 35590), (29, 35632), (31, 35656), (33, 35725), (34, 35737), (35, 35743), (36, 35767), (38, 35860), (39, 35863), (40, 35896), (41, 36049), (42, 36052), (44, 36238), (45, 36298), (46, 36319), (50, 36517), (58, 38137), (59, 38221), (60, 38260), (62, 38296), (63, 38338), (64, 38482), (65, 38587), (66, 38599), (72, 38857), (73, 38932), (75, 39199), (76, 39208), (78, 39280), (79, 39286), (80, 39298), (81, 39349), (86, 39766), (87, 39775), (88, 39799), (89, 39913), (90, 40027), (92, 40063), (93, 40096), (94, 40123), (95, 40126), (97, 40159), (99, 40207), (100, 40252), (102, 40318),

Gene: Racecar_78 Start: 35379, Stop: 43508, Start Num: 1

Candidate Starts for Racecar_78:

(Start: 1 @35379 has 6 MA's), (2, 35460), (3, 35667), (4, 35826), (5, 36084), (6, 36420), (7, 36459), (9, 36657), (12, 36831), (13, 36834), (14, 36903), (17, 37347), (19, 37548), (22, 38037), (23, 38100), (24, 38163), (25, 38244), (27, 38559), (28, 38778), (29, 38820), (30, 38823), (31, 38844), (33, 38913), (34, 38925), (36, 38955), (37, 38997), (38, 39048), (40, 39084), (42, 39240), (44, 39426), (47, 39546), (53, 40347), (54, 40662), (55, 40725), (56, 41139), (58, 41253), (59, 41337), (61, 41394), (65, 41700), (66, 41712), (68, 41757), (71, 41910), (72, 41970), (75, 42312), (76, 42321), (78, 42393), (79, 42399), (80, 42411), (81, 42462), (82, 42537), (84, 42729), (86, 42876), (87, 42885), (88, 42909), (89, 43023), (90, 43137), (91, 43143), (92, 43173), (93, 43206), (94, 43233), (95, 43236), (96, 43242), (97, 43269), (99, 43317), (100, 43362), (102, 43428),

Gene: Talia1610_77 Start: 34744, Stop: 42873, Start Num: 1

Candidate Starts for Talia1610_77:

(Start: 1 @34744 has 6 MA's), (2, 34825), (3, 35032), (4, 35191), (5, 35449), (6, 35785), (7, 35824), (9, 36022), (12, 36196), (13, 36199), (14, 36268), (17, 36712), (19, 36913), (22, 37402), (23, 37465), (24, 37528), (25, 37609), (27, 37924), (28, 38143), (29, 38185), (30, 38188), (31, 38209), (33, 38278), (34, 38290), (36, 38320), (37, 38362), (38, 38413), (40, 38449), (42, 38605), (44, 38791), (47, 38911), (53, 39712), (54, 40027), (55, 40090), (56, 40504), (58, 40618), (59, 40702), (61, 40759), (65, 41065), (66, 41077), (68, 41122), (71, 41275), (72, 41335), (75, 41677), (76, 41686), (78, 41758), (79, 41764), (80, 41776), (81, 41827), (82, 41902), (84, 42094), (86, 42241), (87, 42250), (88, 42274), (89, 42388), (90, 42502), (91, 42508), (92, 42538), (93, 42571), (94, 42598), (95, 42601), (96, 42607), (97, 42634), (99, 42682), (100, 42727), (102, 42793),