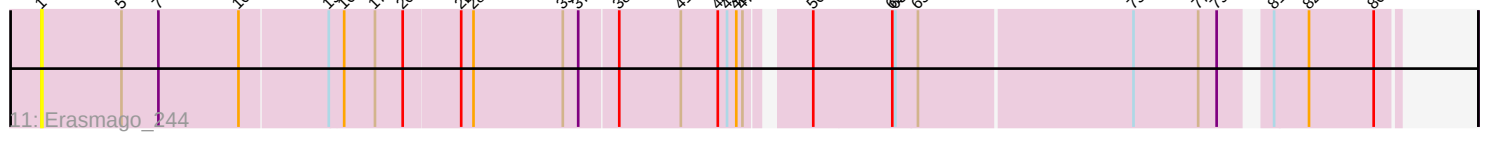
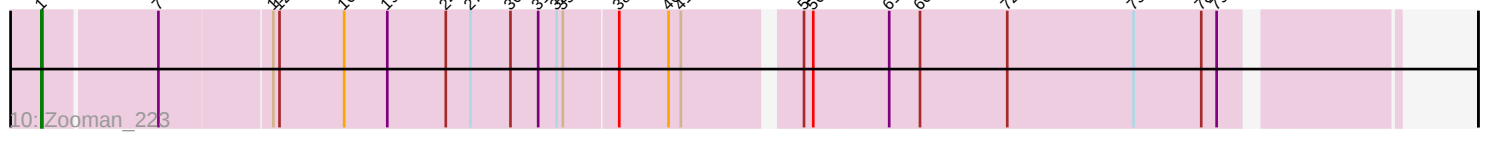
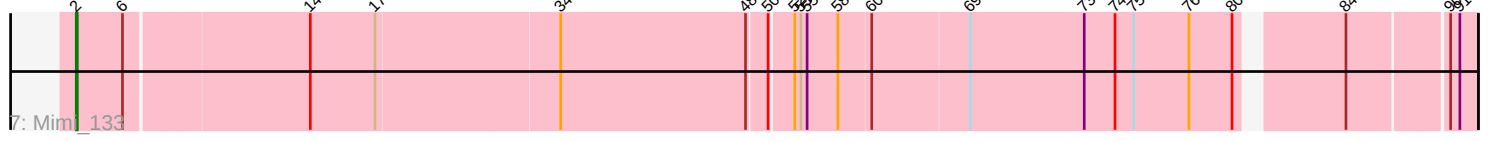
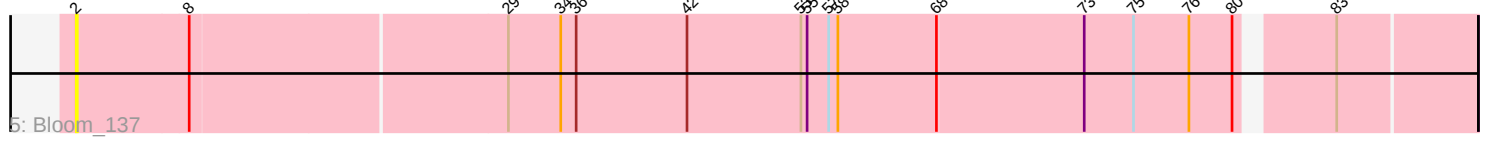
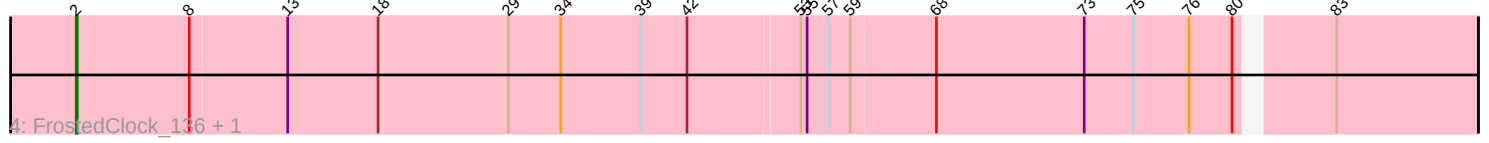
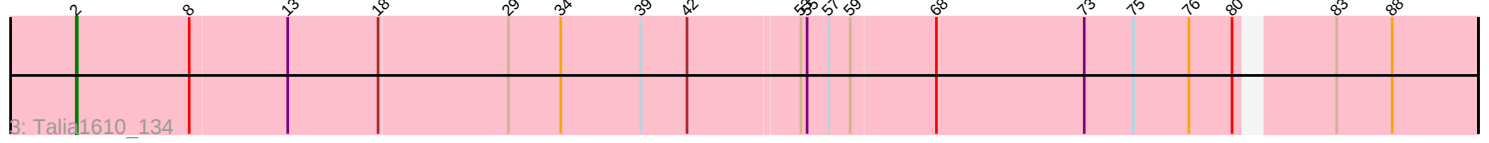
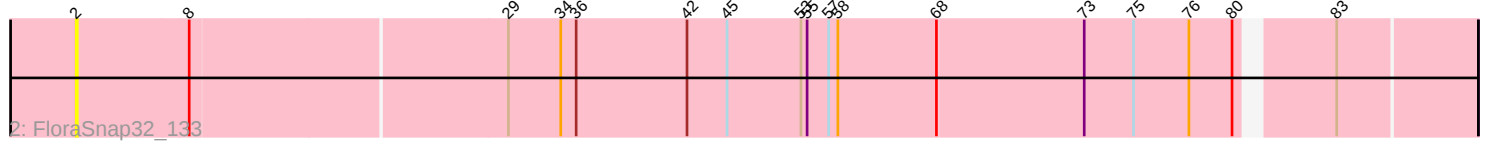
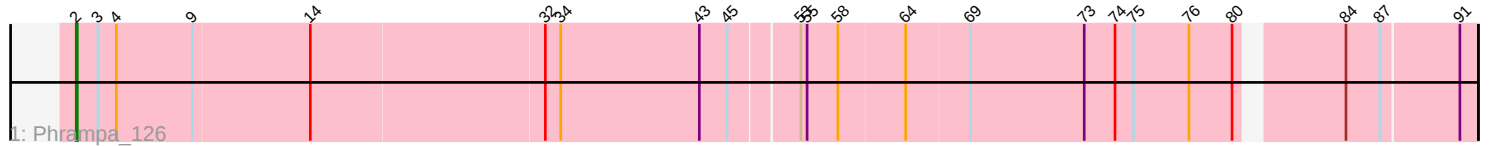


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 309671 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309671 has 12 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Phrampa_126
- Track 2 : FloraSnap32_133
- Track 3 : Talia1610_134
- Track 4 : FrostedClock_136, Racecar_133
- Track 5 : Bloom_137
- Track 6 : GoldenEssence_118
- Track 7 : Mimi_133
- Track 8 : Patbob_131
- Track 9 : Big4_240
- Track 10 : Zooman_223
- Track 11 : Erasmago_244

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bloom_137, FloraSnap32_133, FrostedClock_136, GoldenEssence_118, Mimi_133, Patbob_131, Phrampa_126, Racecar_133, Talia1610_134,

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

-

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

- Big4_240, Erasmago_244, Zooman_223,

Summary by start number:

Start 1:

- Found in 3 of 12 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Big4_240 (GD2), Erasmago_244 (GD2), Zooman_223 (GD2),

Start 2:

- Found in 9 of 12 (75.0%) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bloom_137 (FC), FloraSnap32_133 (FC), FrostedClock_136 (FC), GoldenEssence_118 (FC), Mimi_133 (FC), Patbob_131 (FC), Phrampa_126 (FC), Racecar_133 (FC), Talia1610_134 (FC),

Summary by clusters:

There are 2 clusters represented in this pham: GD2, FC,

Info for manual annotations of cluster FC:

- Start number 2 was manually annotated 6 times for cluster FC.

Info for manual annotations of cluster GD2:

- Start number 1 was manually annotated 2 times for cluster GD2.

Gene Information:

Gene: Big4_240 Start: 138693, Stop: 139961, Start Num: 1

Candidate Starts for Big4_240:

(Start: 1 @138693 has 2 MA's), (7, 138798), (12, 138909), (16, 138972), (19, 139014), (21, 139041), (22, 139047), (24, 139071), (27, 139095), (30, 139134), (31, 139161), (33, 139179), (35, 139185), (38, 139236), (40, 139284), (41, 139296), (49, 139374), (56, 139419), (61, 139491), (66, 139521), (67, 139530), (72, 139605), (75, 139728), (78, 139794), (79, 139809),

Gene: Bloom_137 Start: 94861, Stop: 96180, Start Num: 2

Candidate Starts for Bloom_137:

(Start: 2 @94861 has 6 MA's), (8, 94969), (29, 95269), (34, 95320), (36, 95335), (42, 95443), (53, 95554), (55, 95560), (57, 95581), (58, 95590), (68, 95686), (73, 95827), (75, 95875), (76, 95929), (80, 95971), (83, 96049),

Gene: Erasmago_244 Start: 137170, Stop: 138423, Start Num: 1

Candidate Starts for Erasmago_244:

(Start: 1 @137170 has 2 MA's), (5, 137248), (7, 137284), (10, 137362), (15, 137446), (16, 137458), (17, 137488), (20, 137515), (26, 137569), (28, 137581), (35, 137668), (37, 137683), (38, 137719), (41, 137779), (44, 137815), (45, 137824), (46, 137833), (47, 137839), (56, 137887), (62, 137962), (63, 137965), (65, 137986), (75, 138190), (77, 138253), (79, 138271), (81, 138307), (82, 138340), (86, 138403),

Gene: FloraSnap32_133 Start: 93521, Stop: 94840, Start Num: 2

Candidate Starts for FloraSnap32_133:

(Start: 2 @93521 has 6 MA's), (8, 93629), (29, 93929), (34, 93980), (36, 93995), (42, 94103), (45, 94142), (53, 94214), (55, 94220), (57, 94241), (58, 94250), (68, 94346), (73, 94487), (75, 94535), (76, 94589), (80, 94631), (83, 94709),

Gene: FrostedClock_136 Start: 94858, Stop: 96177, Start Num: 2

Candidate Starts for FrostedClock_136:

(Start: 2 @94858 has 6 MA's), (8, 94966), (13, 95059), (18, 95146), (29, 95269), (34, 95320), (39, 95398), (42, 95443), (53, 95548), (55, 95554), (57, 95575), (59, 95596), (68, 95677), (73, 95818), (75, 95866), (76, 95920), (80, 95962), (83, 96040),

Gene: GoldenEssence_118 Start: 88421, Stop: 89755, Start Num: 2

Candidate Starts for GoldenEssence_118:

(Start: 2 @88421 has 6 MA's), (8, 88529), (13, 88622), (23, 88766), (25, 88778), (29, 88832), (34, 88883), (36, 88898), (39, 88961), (45, 89045), (51, 89087), (53, 89117), (55, 89123), (59, 89165), (68, 89243), (70, 89285), (71, 89303), (73, 89378), (75, 89426), (76, 89480), (80, 89522), (83, 89624), (85, 89642), (89, 89717),

Gene: Mimi_133 Start: 93950, Stop: 95245, Start Num: 2

Candidate Starts for Mimi_133:

(Start: 2 @93950 has 6 MA's), (6, 93995), (14, 94166), (17, 94229), (34, 94403), (48, 94583), (50, 94601), (52, 94622), (53, 94628), (55, 94634), (58, 94664), (60, 94694), (69, 94787), (73, 94898), (74, 94928), (75, 94946), (76, 95000), (80, 95042), (84, 95129), (90, 95219), (91, 95228),

Gene: Patbob_131 Start: 94542, Stop: 95861, Start Num: 2

Candidate Starts for Patbob_131:

(Start: 2 @94542 has 6 MA's), (8, 94650), (29, 94950), (34, 95001), (36, 95016), (42, 95124), (45, 95163), (53, 95235), (55, 95241), (57, 95262), (58, 95271), (68, 95367), (73, 95508), (75, 95556), (76, 95610), (80, 95652), (83, 95730),

Gene: Phrampa_126 Start: 96313, Stop: 97620, Start Num: 2

Candidate Starts for Phrampa_126:

(Start: 2 @96313 has 6 MA's), (3, 96334), (4, 96352), (9, 96424), (14, 96535), (32, 96757), (34, 96772), (43, 96907), (45, 96934), (53, 96997), (55, 97003), (58, 97033), (64, 97096), (69, 97156), (73, 97267), (74, 97297), (75, 97315), (76, 97369), (80, 97411), (84, 97498), (87, 97531), (91, 97603),

Gene: Racecar_133 Start: 94427, Stop: 95746, Start Num: 2

Candidate Starts for Racecar_133:

(Start: 2 @94427 has 6 MA's), (8, 94535), (13, 94628), (18, 94715), (29, 94838), (34, 94889), (39, 94967), (42, 95012), (53, 95117), (55, 95123), (57, 95144), (59, 95165), (68, 95246), (73, 95387), (75, 95435), (76, 95489), (80, 95531), (83, 95609),

Gene: Talia1610_134 Start: 94680, Stop: 95999, Start Num: 2

Candidate Starts for Talia1610_134:

(Start: 2 @94680 has 6 MA's), (8, 94788), (13, 94881), (18, 94968), (29, 95091), (34, 95142), (39, 95220), (42, 95265), (53, 95370), (55, 95376), (57, 95397), (59, 95418), (68, 95499), (73, 95640), (75, 95688), (76, 95742), (80, 95784), (83, 95862), (88, 95916),

Gene: Zooman_223 Start: 137271, Stop: 138527, Start Num: 1

Candidate Starts for Zooman_223:

(Start: 1 @137271 has 2 MA's), (7, 137376), (11, 137481), (12, 137487), (16, 137550), (19, 137592), (24, 137649), (27, 137673), (30, 137712), (31, 137739), (33, 137757), (35, 137763), (38, 137814), (40, 137862), (41, 137874), (54, 137976), (56, 137985), (61, 138057), (66, 138087), (72, 138171), (75, 138294), (78, 138360), (79, 138375),