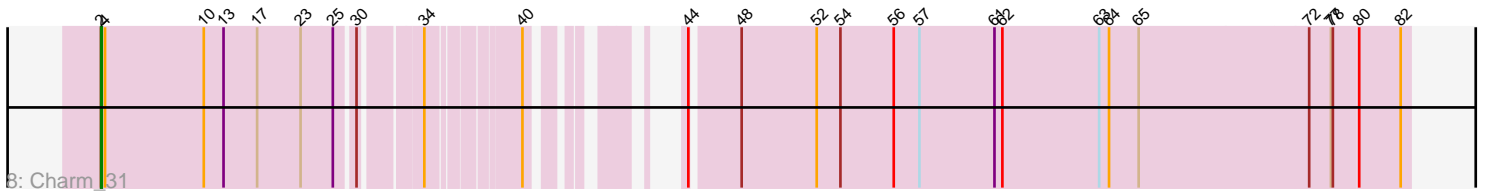
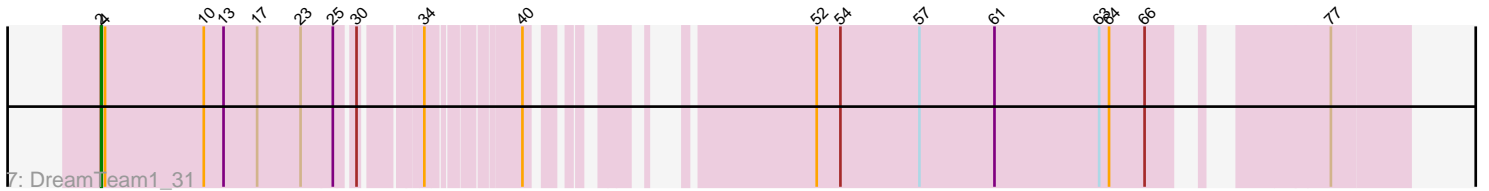
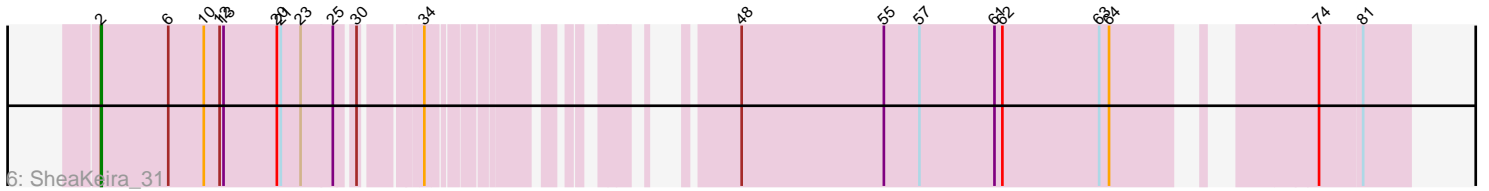
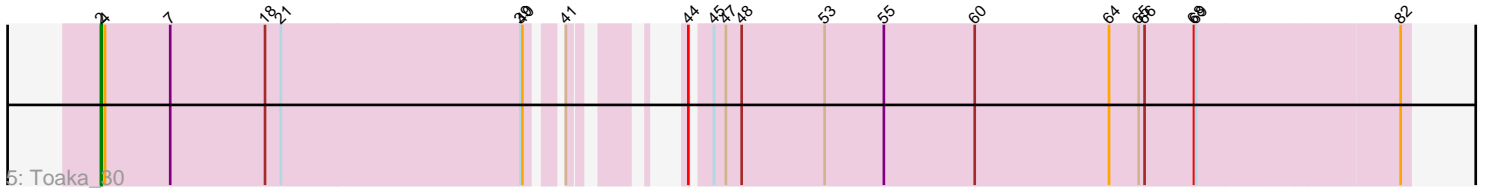
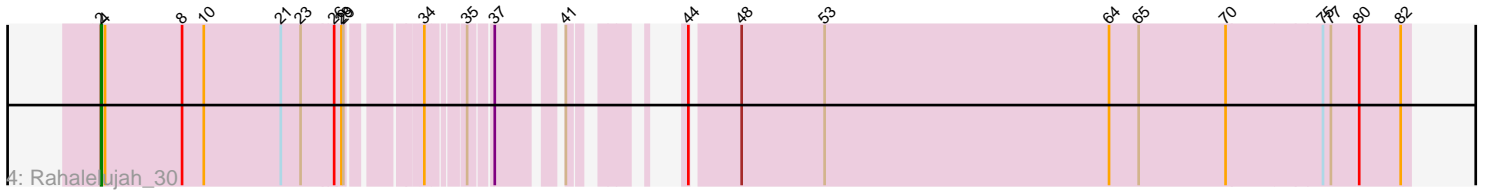
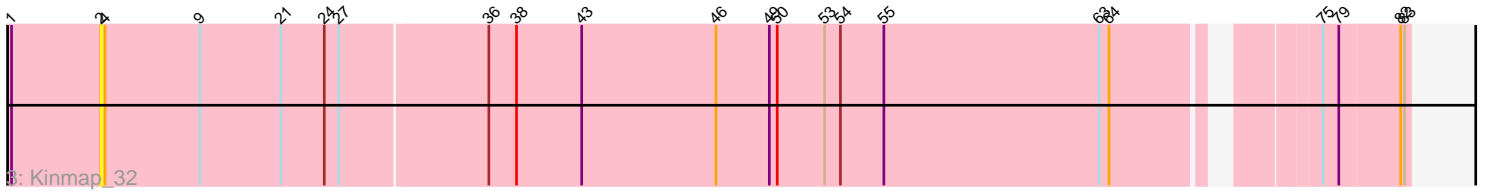
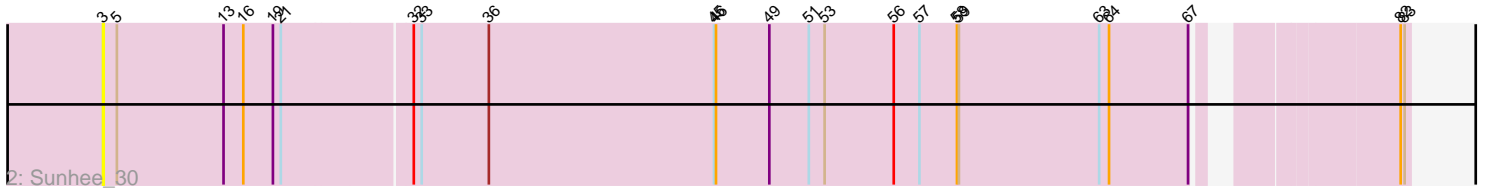
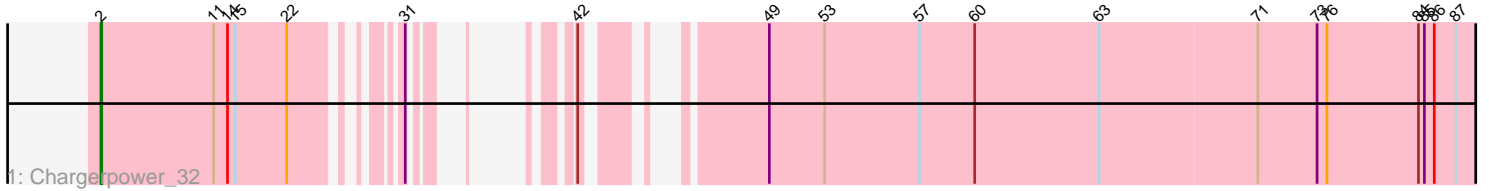


Pham 225164



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 225164 Report

This analysis was run 03/28/25 on database version 593.

Pham number 225164 has 8 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Chargerpower_32
- Track 2 : Sunhee_30
- Track 3 : Kinmap_32
- Track 4 : Rahalelujah_30
- Track 5 : Toaka_30
- Track 6 : SheaKeira_31
- Track 7 : DreamTeam1_31
- Track 8 : Charm_31

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 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chargerpower_32, Charm_31, DreamTeam1_31, Kinmap_32, Rahalelujah_30, SheaKeira_31, Toaka_30,

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

-

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

- Sunhee_30,

Summary by start number:

Start 2:

- Found in 7 of 8 (87.5%) 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: Chargerpower_32 (A), Charm_31 (A9), DreamTeam1_31 (A9), Kinmap_32 (A21), Rahalelujah_30 (A9), SheaKeira_31 (A9), Toaka_30 (A9),

Start 3:

- Found in 1 of 8 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sunhee_30 (A14),

Summary by clusters:

There are 4 clusters represented in this pham: A, A9, A21, A14,

Info for manual annotations of cluster A:

- Start number 2 was manually annotated 1 time for cluster A.

Info for manual annotations of cluster A9:

- Start number 2 was manually annotated 5 times for cluster A9.

Gene Information:

Gene: Chargerpower_32 Start: 22051, Stop: 23787, Start Num: 2

Candidate Starts for Chargerpower_32:

(Start: 2 @22051 has 6 MA's), (11, 22222), (14, 22243), (15, 22255), (22, 22333), (31, 22432), (42, 22492), (49, 22666), (53, 22750), (57, 22894), (60, 22978), (63, 23167), (71, 23404), (73, 23494), (76, 23509), (84, 23647), (85, 23656), (86, 23671), (87, 23704),

Gene: Charm_31 Start: 22329, Stop: 24071, Start Num: 2

Candidate Starts for Charm_31:

(Start: 2 @22329 has 6 MA's), (4, 22335), (10, 22485), (13, 22515), (17, 22566), (23, 22632), (25, 22680), (30, 22704), (34, 22779), (40, 22893), (44, 23004), (48, 23070), (52, 23184), (54, 23220), (56, 23301), (57, 23340), (61, 23454), (62, 23466), (63, 23613), (64, 23628), (65, 23673), (72, 23925), (77, 23958), (78, 23961), (80, 23997), (82, 24060),

Gene: DreamTeam1_31 Start: 22328, Stop: 23986, Start Num: 2

Candidate Starts for DreamTeam1_31:

(Start: 2 @22328 has 6 MA's), (4, 22334), (10, 22484), (13, 22514), (17, 22565), (23, 22631), (25, 22679), (30, 22703), (34, 22778), (40, 22892), (52, 23183), (54, 23219), (57, 23339), (61, 23453), (63, 23612), (64, 23627), (66, 23681), (77, 23870),

Gene: Kinmap_32 Start: 22357, Stop: 24255, Start Num: 2

Candidate Starts for Kinmap_32:

(1, 22222), (Start: 2 @22357 has 6 MA's), (4, 22363), (9, 22507), (21, 22630), (24, 22696), (27, 22717), (36, 22936), (38, 22978), (43, 23077), (46, 23281), (49, 23362), (50, 23374), (53, 23446), (54, 23470), (55, 23536), (63, 23863), (64, 23878), (75, 24130), (79, 24154), (82, 24244), (83, 24247),

Gene: Rahalelujah_30 Start: 22236, Stop: 23978, Start Num: 2

Candidate Starts for Rahalelujah_30:

(Start: 2 @22236 has 6 MA's), (4, 22242), (8, 22359), (10, 22392), (21, 22509), (23, 22539), (26, 22587), (28, 22596), (29, 22599), (34, 22686), (35, 22731), (37, 22758), (41, 22833), (44, 22911), (48, 22977), (53, 23103), (64, 23535), (65, 23580), (70, 23712), (75, 23853), (77, 23865), (80, 23904), (82, 23967),

Gene: SheaKeira_31 Start: 22351, Stop: 24009, Start Num: 2

Candidate Starts for SheaKeira_31:

(Start: 2 @22351 has 6 MA's), (6, 22453), (10, 22507), (12, 22531), (13, 22537), (20, 22618), (21, 22624), (23, 22654), (25, 22702), (30, 22726), (34, 22801), (48, 23092), (55, 23308), (57, 23362), (61, 23476), (62, 23488), (63, 23635), (64, 23650), (74, 23875), (81, 23938),

Gene: Sunhee_30 Start: 22065, Stop: 23957, Start Num: 3

Candidate Starts for Sunhee_30:

(3, 22065), (5, 22086), (13, 22248), (16, 22278), (19, 22323), (21, 22335), (32, 22524), (33, 22536), (36, 22638), (45, 22980), (46, 22983), (49, 23064), (51, 23124), (53, 23148), (56, 23253), (57, 23292), (58, 23349), (59, 23352), (63, 23565), (64, 23580), (67, 23700), (82, 23946), (83, 23949),

Gene: Toaka_30 Start: 22544, Stop: 24361, Start Num: 2

Candidate Starts for Toaka_30:

(Start: 2 @22544 has 6 MA's), (4, 22550), (7, 22649), (18, 22793), (21, 22817), (39, 23180), (40, 23183), (41, 23216), (44, 23294), (45, 23318), (47, 23336), (48, 23360), (53, 23486), (55, 23576), (60, 23714), (64, 23918), (65, 23963), (66, 23972), (68, 24047), (69, 24050), (82, 24350),