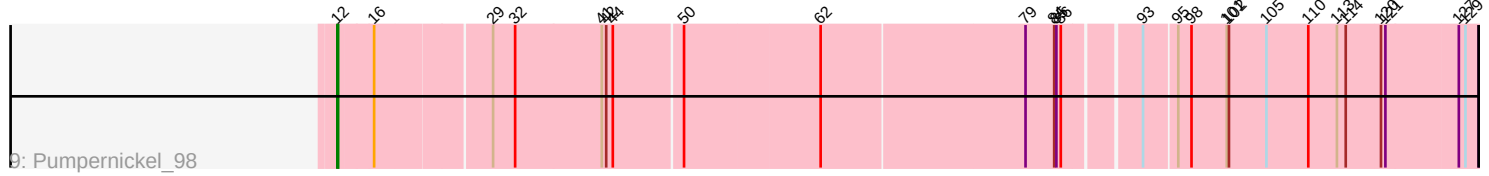
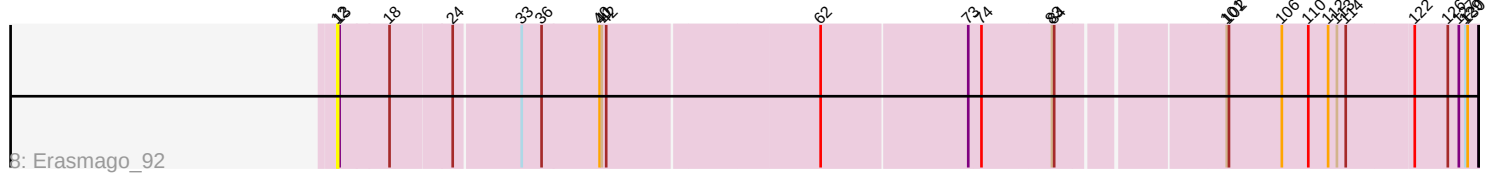
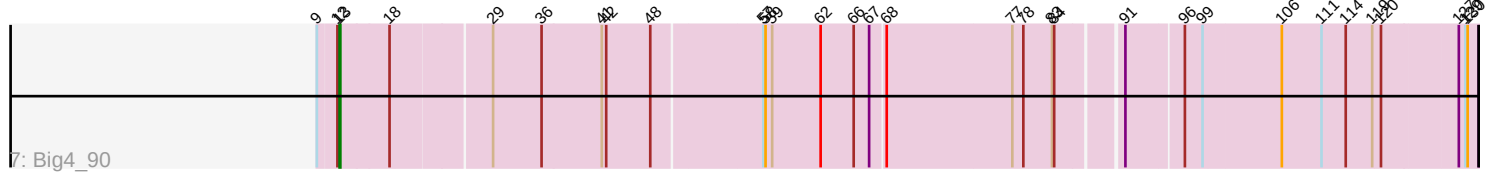
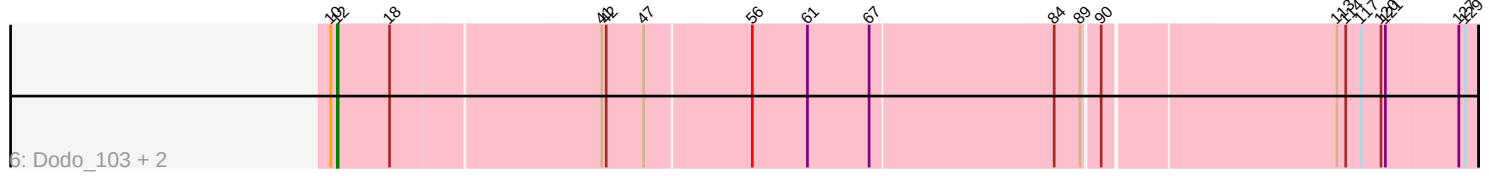
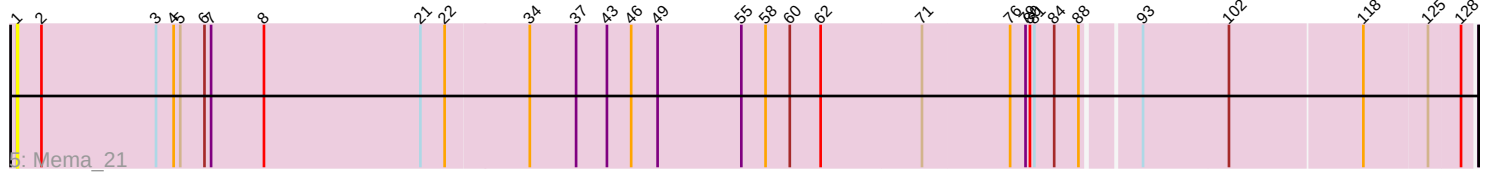
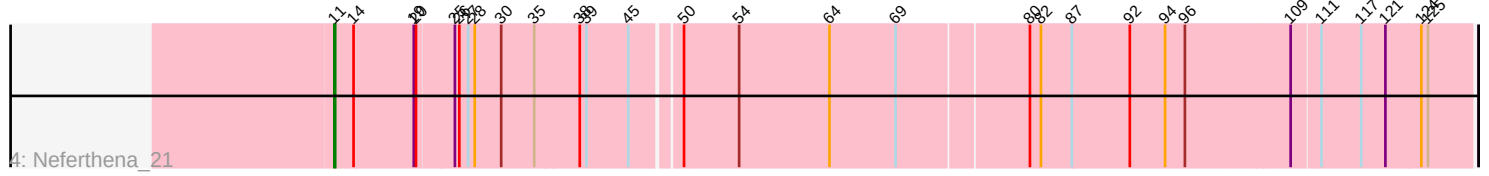
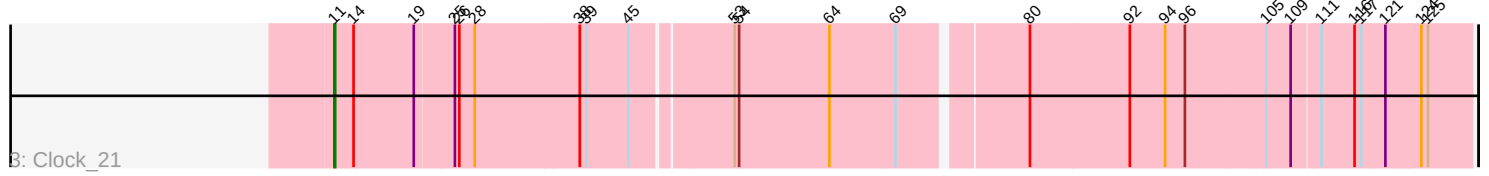
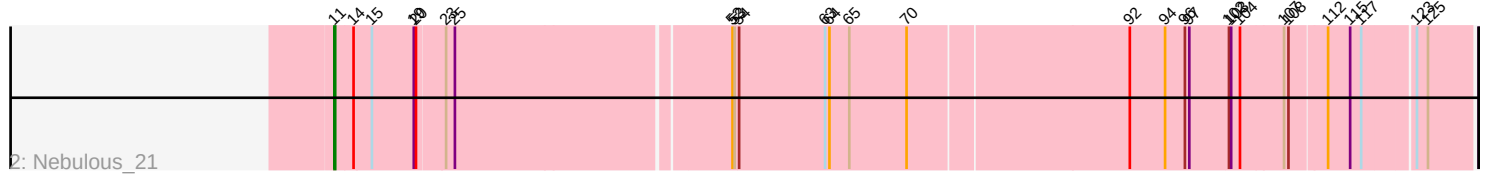
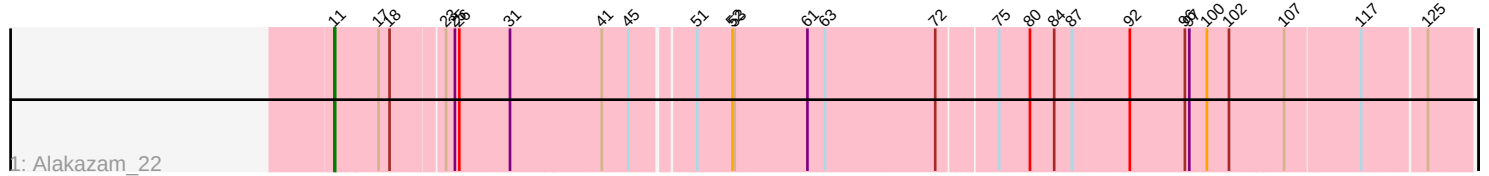


Pham 309707



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 309707 Report

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

Pham number 309707 has 11 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Alakazam_22
- Track 2 : Nebulous_21
- Track 3 : Clock_21
- Track 4 : Neferthena_21
- Track 5 : Mema_21
- Track 6 : Dodo_103, A3Wally_101, PauloDiaboli_101
- Track 7 : Big4_90
- Track 8 : Erasmago_92
- Track 9 : Pumpernickel_98

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

The start number called the most often in the published annotations is 11, it was called in 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alakazam_22, Clock_21, Nebulous_21, Neferthena_21,

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

-

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

- A3Wally_101, Big4_90, Dodo_103, Erasmago_92, Mema_21, PauloDiaboli_101, Pumpernickel_98,

Summary by start number:

Start 1:

- Found in 1 of 11 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mema_21 (EL),

Start 11:

- Found in 4 of 11 (36.4%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alakazam_22 (EA5), Clock_21 (EA5), Nebulous_21 (EA5), Neferthena_21 (EA5),

Start 12:

- Found in 6 of 11 (54.5%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 83.3% of time when present
- Phage (with cluster) where this start called: A3Wally_101 (GD1), Dodo_103 (GD1), Erasmago_92 (GD2), PauloDiaboli_101 (GD1), Pumpernickel_98 (GD4),

Start 13:

- Found in 2 of 11 (18.2%) of genes in pham
- Manual Annotations of this start: 1 of 9
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Big4_90 (GD2),

Summary by clusters:

There are 5 clusters represented in this pham: EL, GD2, EA5, GD4, GD1,

Info for manual annotations of cluster EA5:

- Start number 11 was manually annotated 4 times for cluster EA5.

Info for manual annotations of cluster GD1:

- Start number 12 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 13 was manually annotated 1 time for cluster GD2.

Info for manual annotations of cluster GD4:

- Start number 12 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_101 Start: 66355, Stop: 67815, Start Num: 12

Candidate Starts for A3Wally_101:

(10, 66346), (Start: 12 @66355 has 4 MA's), (18, 66421), (41, 66694), (42, 66700), (47, 66751), (56, 66886), (61, 66958), (67, 67042), (84, 67285), (89, 67318), (90, 67339), (113, 67636), (114, 67648), (117, 67669), (120, 67693), (121, 67699), (127, 67789), (129, 67798),

Gene: Alakazam_22 Start: 16493, Stop: 17962, Start Num: 11

Candidate Starts for Alakazam_22:

(Start: 11 @16493 has 4 MA's), (17, 16550), (18, 16565), (23, 16631), (25, 16643), (26, 16649), (31, 16718), (41, 16841), (45, 16877), (51, 16952), (52, 17000), (53, 17003), (61, 17099), (63, 17123), (72, 17270), (75, 17345), (80, 17387), (84, 17420), (87, 17444), (92, 17522), (96, 17597), (97, 17603), (100, 17627), (102, 17654), (107, 17726), (117, 17825), (125, 17903),

Gene: Big4_90 Start: 65576, Stop: 67033, Start Num: 13

Candidate Starts for Big4_90:

(9, 65549), (Start: 12 @65573 has 4 MA's), (Start: 13 @65576 has 1 MA's), (18, 65639), (29, 65765), (36, 65831), (41, 65912), (42, 65918), (48, 65978), (57, 66119), (58, 66122), (59, 66128), (62, 66194), (66, 66239), (67, 66260), (68, 66278), (77, 66446), (78, 66461), (83, 66497), (84, 66500), (91, 66578), (96, 66650), (99, 66674), (106, 66776), (111, 66830), (114, 66863), (119, 66899), (120, 66908), (127, 67007), (129, 67016), (130, 67019),

Gene: Clock_21 Start: 17045, Stop: 18514, Start Num: 11

Candidate Starts for Clock_21:

(Start: 11 @17045 has 4 MA's), (14, 17069), (19, 17150), (25, 17201), (26, 17207), (28, 17228), (38, 17369), (39, 17378), (45, 17435), (53, 17561), (54, 17564), (64, 17687), (69, 17774), (80, 17933), (92, 18068), (94, 18116), (96, 18143), (105, 18248), (109, 18281), (111, 18317), (116, 18362), (117, 18371), (121, 18401), (124, 18446), (125, 18455),

Gene: Dodo_103 Start: 66677, Stop: 68137, Start Num: 12

Candidate Starts for Dodo_103:

(10, 66668), (Start: 12 @66677 has 4 MA's), (18, 66743), (41, 67016), (42, 67022), (47, 67073), (56, 67208), (61, 67280), (67, 67364), (84, 67607), (89, 67640), (90, 67661), (113, 67958), (114, 67970), (117, 67991), (120, 68015), (121, 68021), (127, 68111), (129, 68120),

Gene: Erasmago_92 Start: 63227, Stop: 64690, Start Num: 12

Candidate Starts for Erasmago_92:

(Start: 12 @63227 has 4 MA's), (Start: 13 @63230 has 1 MA's), (18, 63293), (24, 63371), (33, 63458), (36, 63485), (40, 63563), (41, 63566), (42, 63572), (62, 63848), (73, 64043), (74, 64058), (83, 64151), (84, 64154), (101, 64358), (102, 64361), (106, 64433), (110, 64469), (112, 64496), (113, 64508), (114, 64520), (122, 64607), (126, 64649), (127, 64664), (129, 64673), (130, 64676),

Gene: Mema_21 Start: 16595, Stop: 18529, Start Num: 1

Candidate Starts for Mema_21:

(1, 16595), (2, 16628), (3, 16784), (4, 16808), (5, 16817), (6, 16850), (7, 16859), (8, 16931), (21, 17144), (22, 17177), (34, 17288), (37, 17351), (43, 17393), (46, 17426), (49, 17462), (55, 17576), (58, 17609), (60, 17642), (62, 17684), (71, 17819), (76, 17936), (79, 17957), (80, 17963), (81, 17969), (84, 17996), (88, 18029), (93, 18098), (102, 18212), (118, 18389), (125, 18473), (128, 18515),

Gene: Nebulous_21 Start: 17051, Stop: 18529, Start Num: 11

Candidate Starts for Nebulous_21:

(Start: 11 @17051 has 4 MA's), (14, 17075), (15, 17099), (19, 17156), (20, 17159), (23, 17195), (25, 17207), (52, 17564), (53, 17567), (54, 17570), (63, 17687), (64, 17693), (65, 17720), (70, 17798), (92, 18089), (94, 18137), (96, 18164), (97, 18170), (102, 18221), (103, 18224), (104, 18236), (107, 18293), (108, 18299), (112, 18347), (115, 18377), (117, 18392), (123, 18455), (125, 18470),

Gene: Neferthena_21 Start: 17065, Stop: 18546, Start Num: 11

Candidate Starts for Neferthena_21:

(Start: 11 @17065 has 4 MA's), (14, 17089), (19, 17170), (20, 17173), (25, 17221), (26, 17227), (27, 17239), (28, 17248), (30, 17284), (35, 17329), (38, 17389), (39, 17398), (45, 17455), (50, 17515), (54, 17584), (64, 17707), (69, 17794), (80, 17965), (82, 17980), (87, 18022), (92, 18100), (94, 18148), (96, 18175), (109, 18313), (111, 18349), (117, 18403), (121, 18433), (124, 18478), (125, 18487),

Gene: PauloDiaboli_101 Start: 65712, Stop: 67172, Start Num: 12

Candidate Starts for PauloDiaboli_101:

(10, 65703), (Start: 12 @65712 has 4 MA's), (18, 65778), (41, 66051), (42, 66057), (47, 66108), (56, 66243), (61, 66315), (67, 66399), (84, 66642), (89, 66675), (90, 66696), (113, 66993), (114, 67005),

(117, 67026), (120, 67050), (121, 67056), (127, 67146), (129, 67155),

Gene: Pumpernickel_98 Start: 67357, Stop: 68823, Start Num: 12

Candidate Starts for Pumpernickel_98:

(Start: 12 @67357 has 4 MA's), (16, 67402), (29, 67549), (32, 67579), (41, 67696), (42, 67702), (44, 67711), (50, 67801), (62, 67978), (79, 68248), (84, 68284), (85, 68287), (86, 68293), (93, 68386), (95, 68428), (98, 68446), (101, 68488), (102, 68491), (105, 68542), (110, 68599), (113, 68638), (114, 68650), (120, 68695), (121, 68701), (127, 68797), (129, 68806),