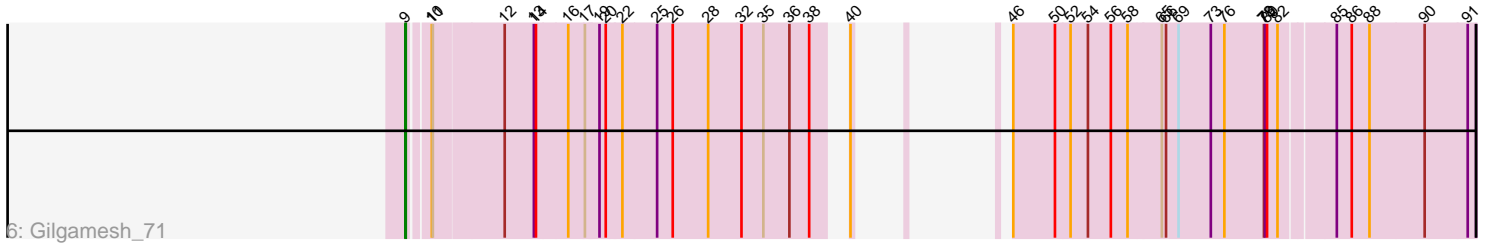
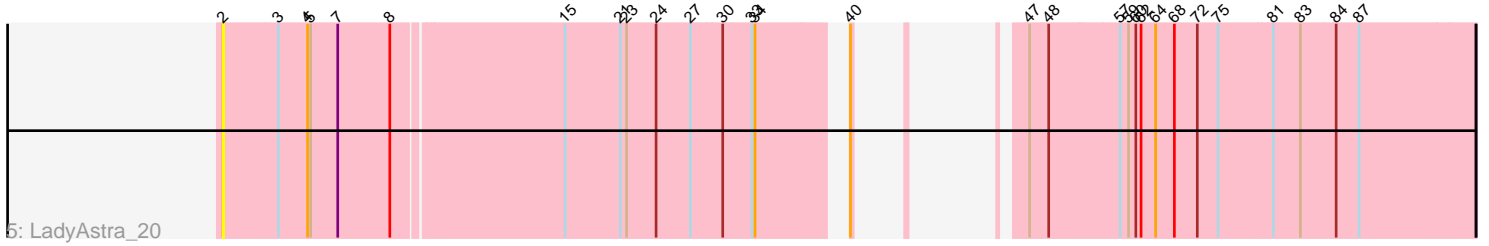
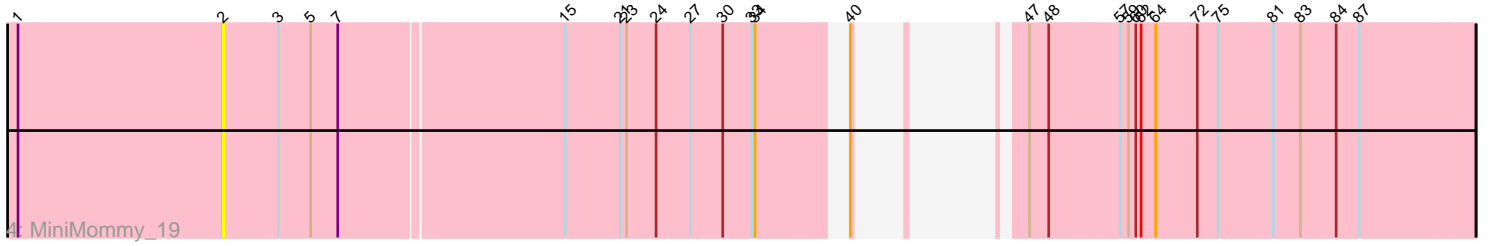
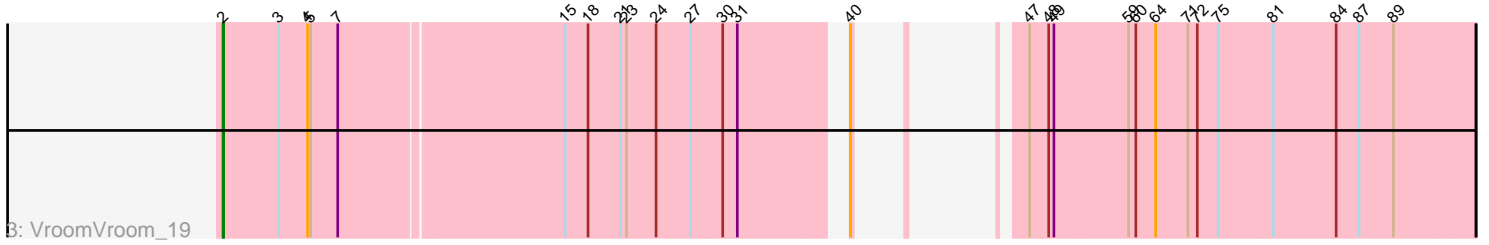
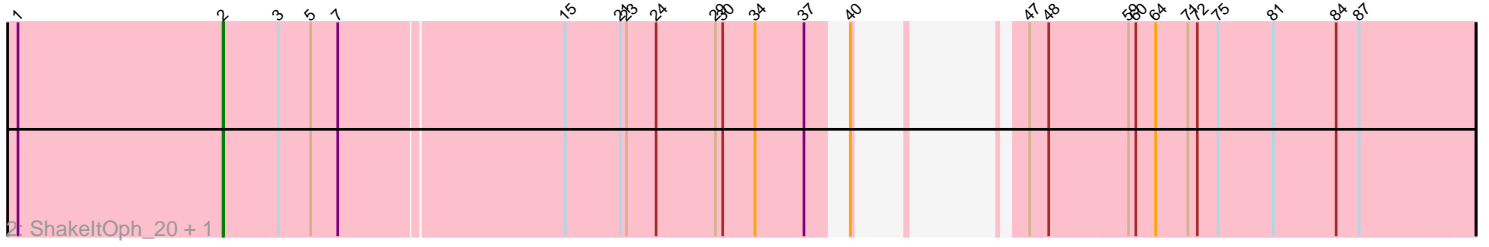
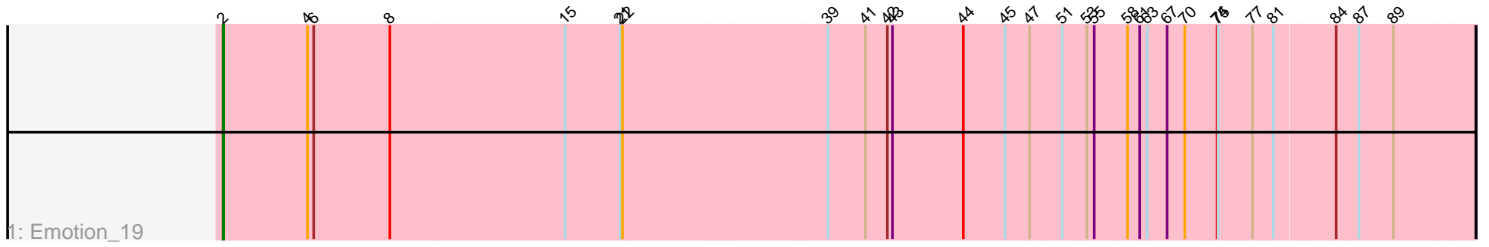


Pham 225217



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 225217 Report

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

Pham number 225217 has 7 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Emotion_19
- Track 2 : ShakeltOph_20, JasmineDragon_19
- Track 3 : VroomVroom_19
- Track 4 : MiniMommy_19
- Track 5 : LadyAstra_20
- Track 6 : Gilgamesh_71

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 3 of the 4 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Emotion_19, JasmineDragon_19, LadyAstra_20, MiniMommy_19, ShakeltOph_20, VroomVroom_19,

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

-

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

- Gilgamesh_71,

Summary by start number:

Start 2:

- Found in 6 of 7 (85.7%) of genes in pham
- Manual Annotations of this start: 3 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion_19 (AZ4), JasmineDragon_19 (AZ4), LadyAstra_20 (AZ4), MiniMommy_19 (AZ4), ShakeltOph_20 (AZ4), VroomVroom_19 (AZ4),

Start 9:

- Found in 1 of 7 (14.3%) of genes in pham

- Manual Annotations of this start: 1 of 4
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gilgamesh_71 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, AZ4,

Info for manual annotations of cluster AZ4:

- Start number 2 was manually annotated 3 times for cluster AZ4.

Gene Information:

Gene: Emotion_19 Start: 14446, Stop: 17979, Start Num: 2

Candidate Starts for Emotion_19:

(Start: 2 @14446 has 3 MA's), (4, 14686), (6, 14704), (8, 14923), (15, 15427), (21, 15586), (22, 15592), (39, 16171), (41, 16279), (42, 16342), (43, 16357), (44, 16561), (45, 16681), (47, 16750), (51, 16843), (53, 16912), (55, 16933), (58, 17023), (61, 17056), (63, 17077), (67, 17134), (70, 17185), (74, 17275), (75, 17278), (77, 17368), (81, 17422), (84, 17587), (87, 17647), (89, 17746),

Gene: Gilgamesh_71 Start: 66004, Stop: 68451, Start Num: 9

Candidate Starts for Gilgamesh_71:

(Start: 9 @66004 has 1 MA's), (10, 66052), (11, 66055), (12, 66250), (13, 66334), (14, 66340), (16, 66427), (17, 66472), (19, 66511), (20, 66529), (22, 66571), (25, 66667), (26, 66712), (28, 66814), (32, 66907), (35, 66970), (36, 67045), (38, 67102), (40, 67153), (46, 67183), (50, 67303), (52, 67345), (54, 67393), (56, 67459), (58, 67507), (65, 67600), (66, 67612), (69, 67639), (73, 67732), (76, 67771), (78, 67879), (79, 67882), (80, 67888), (82, 67918), (85, 68059), (86, 68101), (88, 68152), (90, 68308), (91, 68428),

Gene: JasmineDragon_19 Start: 14321, Stop: 17332, Start Num: 2

Candidate Starts for JasmineDragon_19:

(1, 13733), (Start: 2 @14321 has 3 MA's), (3, 14477), (5, 14570), (7, 14648), (15, 15269), (21, 15428), (23, 15446), (24, 15530), (29, 15698), (30, 15719), (34, 15809), (37, 15944), (40, 16010), (47, 16079), (48, 16133), (59, 16352), (60, 16373), (64, 16430), (71, 16523), (72, 16550), (75, 16610), (81, 16763), (84, 16940), (87, 17000),

Gene: LadyAstra_20 Start: 14327, Stop: 17338, Start Num: 2

Candidate Starts for LadyAstra_20:

(Start: 2 @14327 has 3 MA's), (3, 14483), (4, 14567), (5, 14576), (7, 14654), (8, 14804), (15, 15275), (21, 15434), (23, 15452), (24, 15536), (27, 15635), (30, 15725), (33, 15806), (34, 15815), (40, 16016), (47, 16085), (48, 16139), (57, 16334), (59, 16358), (60, 16379), (62, 16394), (64, 16436), (68, 16490), (72, 16556), (75, 16616), (81, 16769), (83, 16847), (84, 16946), (87, 17006),

Gene: MiniMommy_19 Start: 14322, Stop: 17333, Start Num: 2

Candidate Starts for MiniMommy_19:

(1, 13734), (Start: 2 @14322 has 3 MA's), (3, 14478), (5, 14571), (7, 14649), (15, 15270), (21, 15429), (23, 15447), (24, 15531), (27, 15630), (30, 15720), (33, 15801), (34, 15810), (40, 16011), (47, 16080), (48, 16134), (57, 16329), (59, 16353), (60, 16374), (62, 16389), (64, 16431), (72, 16551), (75, 16611), (81, 16764), (83, 16842), (84, 16941), (87, 17001),

Gene: ShakeltOph_20 Start: 14321, Stop: 17332, Start Num: 2

Candidate Starts for ShakeltOph_20:

(1, 13733), (Start: 2 @14321 has 3 MA's), (3, 14477), (5, 14570), (7, 14648), (15, 15269), (21, 15428), (23, 15446), (24, 15530), (29, 15698), (30, 15719), (34, 15809), (37, 15944), (40, 16010), (47, 16079), (48, 16133), (59, 16352), (60, 16373), (64, 16430), (71, 16523), (72, 16550), (75, 16610), (81, 16763), (84, 16940), (87, 17000),

Gene: VroomVroom_19 Start: 14338, Stop: 17349, Start Num: 2

Candidate Starts for VroomVroom_19:

(Start: 2 @14338 has 3 MA's), (3, 14494), (4, 14578), (5, 14587), (7, 14665), (15, 15286), (18, 15352), (21, 15445), (23, 15463), (24, 15547), (27, 15646), (30, 15736), (31, 15775), (40, 16027), (47, 16096), (48, 16150), (49, 16165), (59, 16369), (60, 16390), (64, 16447), (71, 16540), (72, 16567), (75, 16627), (81, 16780), (84, 16957), (87, 17017), (89, 17116),