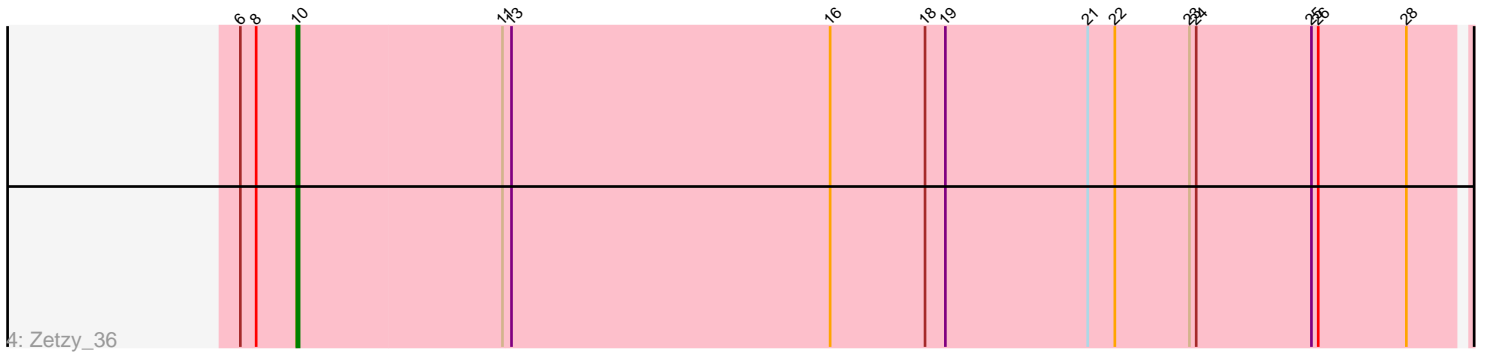
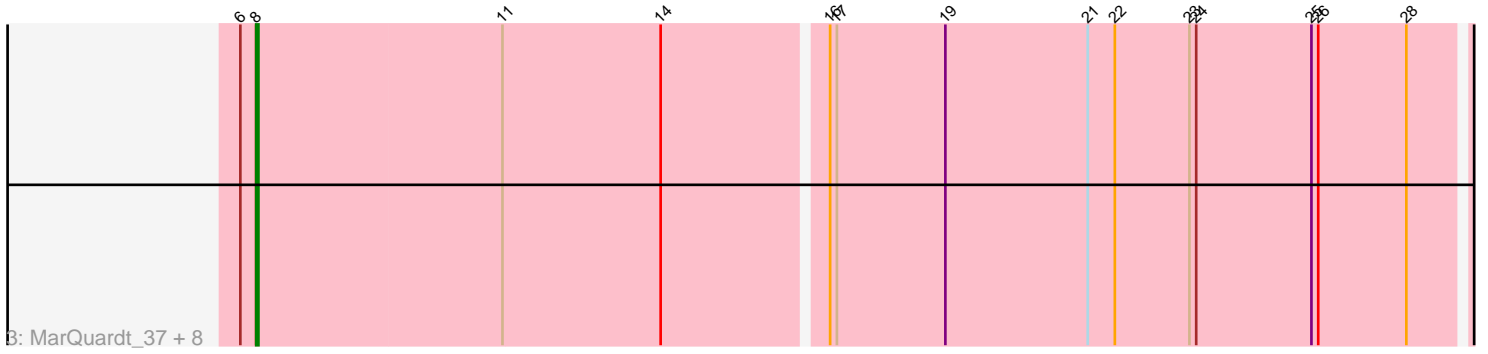
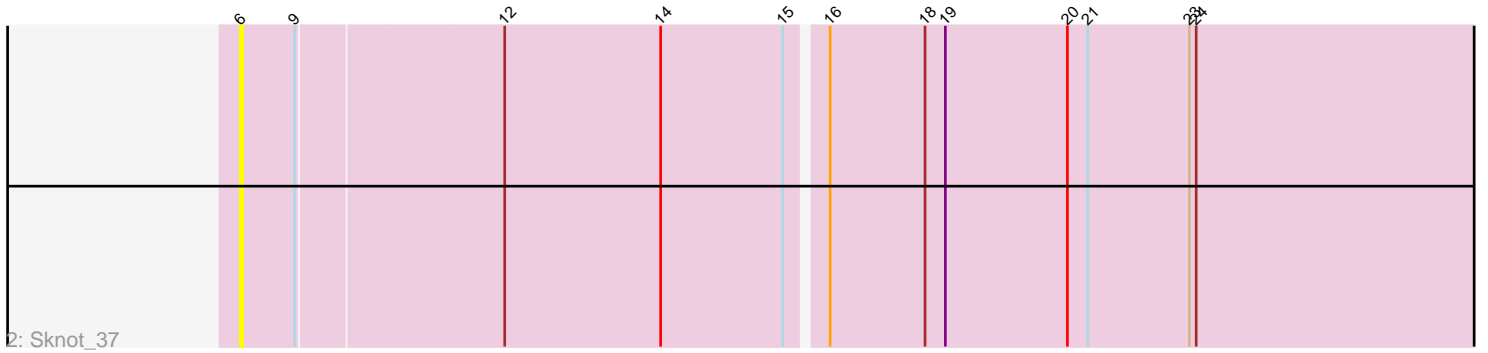
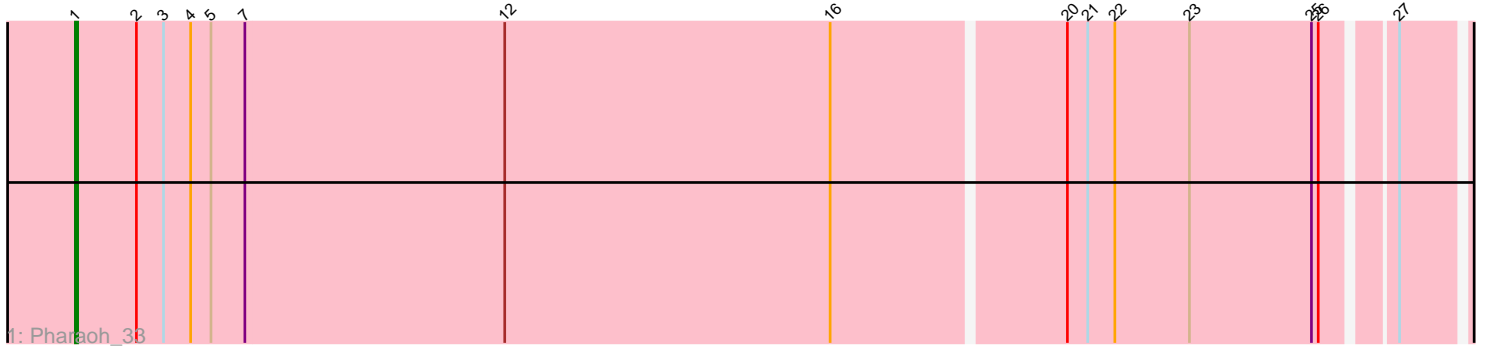


Pham 225028



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 225028 Report

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

Pham number 225028 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Pharaoh_33
- Track 2 : Sknot_37
- Track 3 : MarQuardt_37, MoneyMay_37, Sabia_37, Tiffany_37, Hercules11_37, Anubis_39, Grum1_37, Marie_37, Vix_37
- Track 4 : Zetzy_36

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

The start number called the most often in the published annotations is 8, it was called in 9 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anubis_39, Grum1_37, Hercules11_37, MarQuardt_37, Marie_37, MoneyMay_37, Sabia_37, Tiffany_37, Vix_37,

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

- Zetzy_36,

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

- Pharaoh_33, Sknot_37,

Summary by start number:

Start 1:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pharaoh_33 (A12),

Start 6:

- Found in 11 of 12 (91.7%) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Sknot_37 (A2),

Start 8:

- Found in 10 of 12 (83.3%) of genes in pham
- Manual Annotations of this start: 9 of 11
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Anubis_39 (A3), Grum1_37 (A3), Hercules11_37 (A3), MarQuardt_37 (A3), Marie_37 (A3), MoneyMay_37 (A3), Sabia_37 (A3), Tiffany_37 (A3), Vix_37 (A3),

Start 10:

- Found in 1 of 12 (8.3%) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zetzy_36 (A3),

Summary by clusters:

There are 3 clusters represented in this pham: A3, A2, A12,

Info for manual annotations of cluster A12:

- Start number 1 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A3:

- Start number 8 was manually annotated 9 times for cluster A3.
- Start number 10 was manually annotated 1 time for cluster A3.

Gene Information:

Gene: Anubis_39 Start: 26978, Stop: 27517, Start Num: 8

Candidate Starts for Anubis_39:

(6, 26972), (Start: 8 @26978 has 9 MA's), (11, 27086), (14, 27155), (16, 27224), (17, 27227), (19, 27275), (21, 27338), (22, 27350), (23, 27383), (24, 27386), (25, 27437), (26, 27440), (28, 27479),

Gene: Grum1_37 Start: 27091, Stop: 27630, Start Num: 8

Candidate Starts for Grum1_37:

(6, 27085), (Start: 8 @27091 has 9 MA's), (11, 27199), (14, 27268), (16, 27337), (17, 27340), (19, 27388), (21, 27451), (22, 27463), (23, 27496), (24, 27499), (25, 27550), (26, 27553), (28, 27592),

Gene: Hercules11_37 Start: 27100, Stop: 27639, Start Num: 8

Candidate Starts for Hercules11_37:

(6, 27094), (Start: 8 @27100 has 9 MA's), (11, 27208), (14, 27277), (16, 27346), (17, 27349), (19, 27397), (21, 27460), (22, 27472), (23, 27505), (24, 27508), (25, 27559), (26, 27562), (28, 27601),

Gene: MarQuardt_37 Start: 27093, Stop: 27632, Start Num: 8

Candidate Starts for MarQuardt_37:

(6, 27087), (Start: 8 @27093 has 9 MA's), (11, 27201), (14, 27270), (16, 27339), (17, 27342), (19, 27390), (21, 27453), (22, 27465), (23, 27498), (24, 27501), (25, 27552), (26, 27555), (28, 27594),

Gene: Marie_37 Start: 27091, Stop: 27630, Start Num: 8

Candidate Starts for Marie_37:

(6, 27085), (Start: 8 @27091 has 9 MA's), (11, 27199), (14, 27268), (16, 27337), (17, 27340), (19, 27388), (21, 27451), (22, 27463), (23, 27496), (24, 27499), (25, 27550), (26, 27553), (28, 27592),

Gene: MoneyMay_37 Start: 27091, Stop: 27630, Start Num: 8

Candidate Starts for MoneyMay_37:

(6, 27085), (Start: 8 @27091 has 9 MA's), (11, 27199), (14, 27268), (16, 27337), (17, 27340), (19, 27388), (21, 27451), (22, 27463), (23, 27496), (24, 27499), (25, 27550), (26, 27553), (28, 27592),

Gene: Pharaoh_33 Start: 27207, Stop: 27818, Start Num: 1

Candidate Starts for Pharaoh_33:

(Start: 1 @27207 has 1 MA's), (2, 27234), (3, 27246), (4, 27258), (5, 27267), (7, 27282), (12, 27396), (16, 27540), (20, 27639), (21, 27648), (22, 27660), (23, 27693), (25, 27747), (26, 27750), (27, 27777),

Gene: Sabia_37 Start: 27085, Stop: 27624, Start Num: 8

Candidate Starts for Sabia_37:

(6, 27079), (Start: 8 @27085 has 9 MA's), (11, 27193), (14, 27262), (16, 27331), (17, 27334), (19, 27382), (21, 27445), (22, 27457), (23, 27490), (24, 27493), (25, 27544), (26, 27547), (28, 27586),

Gene: Sknot_37 Start: 26782, Stop: 27330, Start Num: 6

Candidate Starts for Sknot_37:

(6, 26782), (9, 26806), (12, 26893), (14, 26962), (15, 27016), (16, 27031), (18, 27073), (19, 27082), (20, 27136), (21, 27145), (23, 27190), (24, 27193),

Gene: Tiffany_37 Start: 26977, Stop: 27516, Start Num: 8

Candidate Starts for Tiffany_37:

(6, 26971), (Start: 8 @26977 has 9 MA's), (11, 27085), (14, 27154), (16, 27223), (17, 27226), (19, 27274), (21, 27337), (22, 27349), (23, 27382), (24, 27385), (25, 27436), (26, 27439), (28, 27478),

Gene: Vix_37 Start: 27174, Stop: 27713, Start Num: 8

Candidate Starts for Vix_37:

(6, 27168), (Start: 8 @27174 has 9 MA's), (11, 27282), (14, 27351), (16, 27420), (17, 27423), (19, 27471), (21, 27534), (22, 27546), (23, 27579), (24, 27582), (25, 27633), (26, 27636), (28, 27675),

Gene: Zetzy_36 Start: 26667, Stop: 27194, Start Num: 10

Candidate Starts for Zetzy_36:

(6, 26643), (Start: 8 @26649 has 9 MA's), (Start: 10 @26667 has 1 MA's), (11, 26757), (13, 26760), (16, 26901), (18, 26943), (19, 26952), (21, 27015), (22, 27027), (23, 27060), (24, 27063), (25, 27114), (26, 27117), (28, 27156),