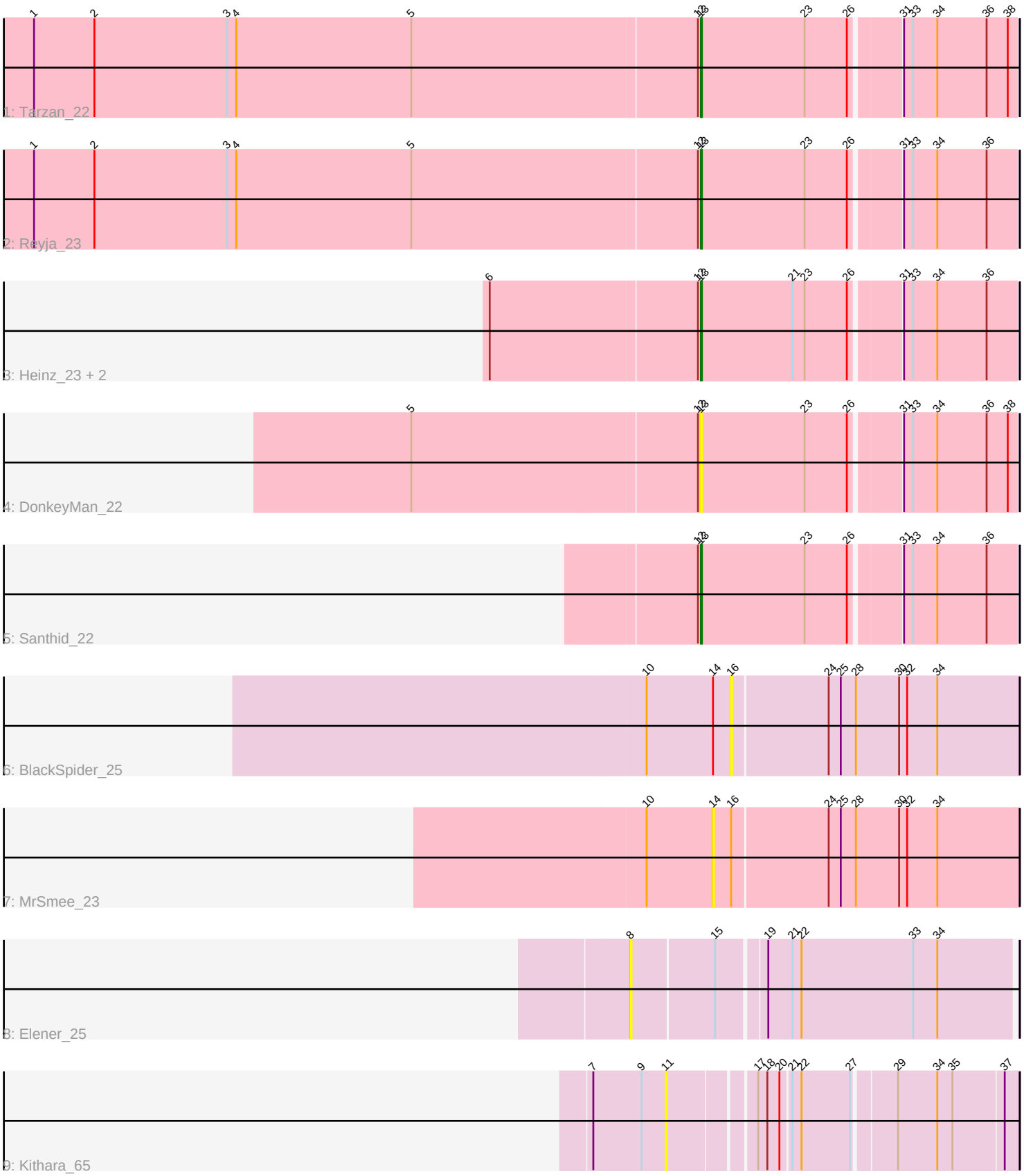
Pham 193054


1: Tarzan_22
2: Reyja_23
3: Heinz_23 + 2
4: DonkeyMan_22
5: Santhid_22
6: BlackSpider_25
7: MrSmee_23
8: Elener_25
9: Kithara_65

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 193054 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193054 has 11 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Tarzan_22
• Track 2 : Reyja_23
• Track 3 : Heinz_23, Hibiscus_22, Jojo24_22
• Track 4 : DonkeyMan_22
• Track 5 : Santhid_22
• Track 6 : BlackSpider_25
• Track 7 : MrSmee_23
• Track 8 : Elener_25
• Track 9 : Kithara_65

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• DonkeyMan_22, Heinz_23, Hibiscus_22, Jojo24_22, Reyja_23, Santhid_22, Tarzan_22,

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

Genes that do not have the "Most Annotated" start:
• BlackSpider_25, Elener_25, Kithara_65, MrSmee_23,

Summary by start number:

Start 8:
• 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: Elener_25 (singleton),

Start 11:

• 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: Kithara_65 (singleton),

Start 13:
• Found in 7 of 11 (63.6%) of genes in pham
• Manual Annotations of this start: 5 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DonkeyMan_22 (DY), Heinz_23 (DY), Hibiscus_22 (DY), Jojo24_22 (DY), Reyja_23 (DY), Santhid_22 (DY), Tarzan_22 (DY),

Start 14:
• Found in 2 of 11 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: MrSmee_23 (UNK),

Start 16:
• Found in 2 of 11 (18.2%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: BlackSpider_25 (FN),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, UNK, FN, DY,

Info for manual annotations of cluster DY:
•Start number 13 was manually annotated 5 times for cluster DY.

Gene Information:

Gene: BlackSpider_25 Start: 20146, Stop: 20424, Start Num: 16
Candidate Starts for BlackSpider_25:
(10, 20062), (14, 20128), (16, 20146), (24, 20239), (25, 20251), (28, 20266), (30, 20308), (32, 20314), (34, 20344),

Gene: DonkeyMan_22 Start: 18572, Stop: 18871, Start Num: 13
Candidate Starts for DonkeyMan_22:
(5, 18290), (12, 18569), (Start: 13 @18572 has 5 MA's), (23, 18674), (26, 18716), (31, 18761), (33, 18770), (34, 18794), (36, 18842), (38, 18863),

Gene: Elener_25 Start: 21147, Stop: 21506, Start Num: 8
Candidate Starts for Elener_25:
(8, 21147), (15, 21225), (19, 21267), (21, 21291), (22, 21300), (33, 21411), (34, 21435),

Gene: Heinz_23 Start: 18664, Stop: 18963, Start Num: 13

Candidate Starts for Heinz_23:
(6, 18460), (12, 18661), (Start: 13 @18664 has 5 MA's), (21, 18754), (23, 18766), (26, 18808), (31, 18853), (33, 18862), (34, 18886), (36, 18934),

Gene: Hibiscus_22 Start: 18612, Stop: 18911, Start Num: 13
Candidate Starts for Hibiscus_22:
(6, 18408), (12, 18609), (Start: 13 @18612 has 5 MA's), (21, 18702), (23, 18714), (26, 18756), (31, 18801), (33, 18810), (34, 18834), (36, 18882),

Gene: Jojo24_22 Start: 18609, Stop: 18908, Start Num: 13
Candidate Starts for Jojo24_22:
(6, 18405), (12, 18606), (Start: 13 @18609 has 5 MA's), (21, 18699), (23, 18711), (26, 18753), (31, 18798), (33, 18807), (34, 18831), (36, 18879),

Gene: Kithara_65 Start: 46212, Stop: 46532, Start Num: 11
Candidate Starts for Kithara_65:
(7, 46140), (9, 46188), (11, 46212), (17, 46290), (18, 46299), (20, 46311), (21, 46320), (22, 46329), (27, 46377), (29, 46416), (34, 46455), (35, 46470), (37, 46518),

Gene: MrSmee_23 Start: 18054, Stop: 18350, Start Num: 14
Candidate Starts for MrSmee_23:
(10, 17988), (14, 18054), (16, 18072), (24, 18165), (25, 18177), (28, 18192), (30, 18234), (32, 18240), (34, 18270),

Gene: Reyja_23 Start: 18783, Stop: 19082, Start Num: 13
Candidate Starts for Reyja_23:
(1, 18126), (2, 18186), (3, 18318), (4, 18327), (5, 18501), (12, 18780), (Start: 13 @18783 has 5 MA's), (23, 18885), (26, 18927), (31, 18972), (33, 18981), (34, 19005), (36, 19053),

Gene: Santhid_22 Start: 18617, Stop: 18916, Start Num: 13
Candidate Starts for Santhid_22:
(12, 18614), (Start: 13 @18617 has 5 MA's), (23, 18719), (26, 18761), (31, 18806), (33, 18815), (34, 18839), (36, 18887),

Gene: Tarzan_22 Start: 18586, Stop: 18885, Start Num: 13
Candidate Starts for Tarzan_22:
(1, 17929), (2, 17989), (3, 18121), (4, 18130), (5, 18304), (12, 18583), (Start: 13 @18586 has 5 MA's), (23, 18688), (26, 18730), (31, 18775), (33, 18784), (34, 18808), (36, 18856), (38, 18877),