Pham 8553

1: Pakusa_51 + 8

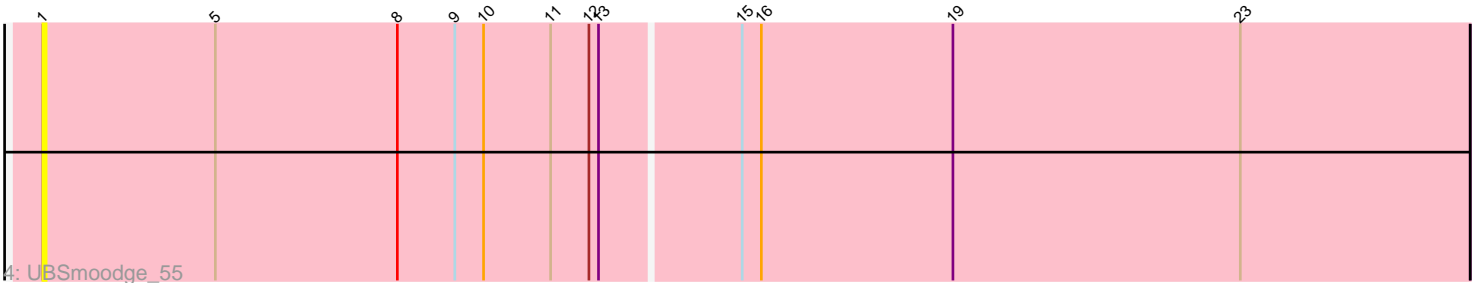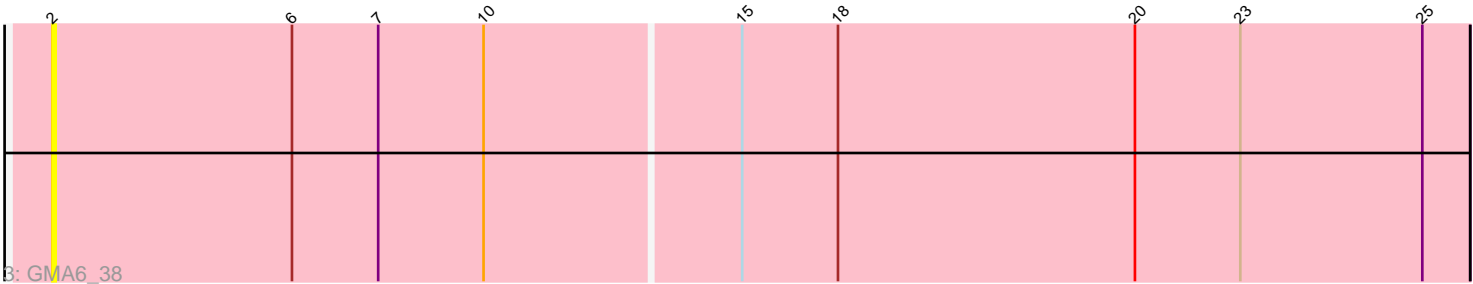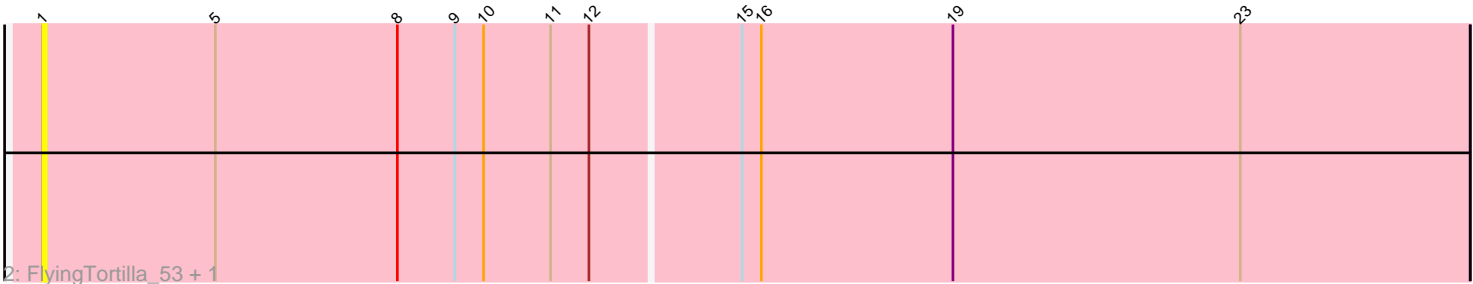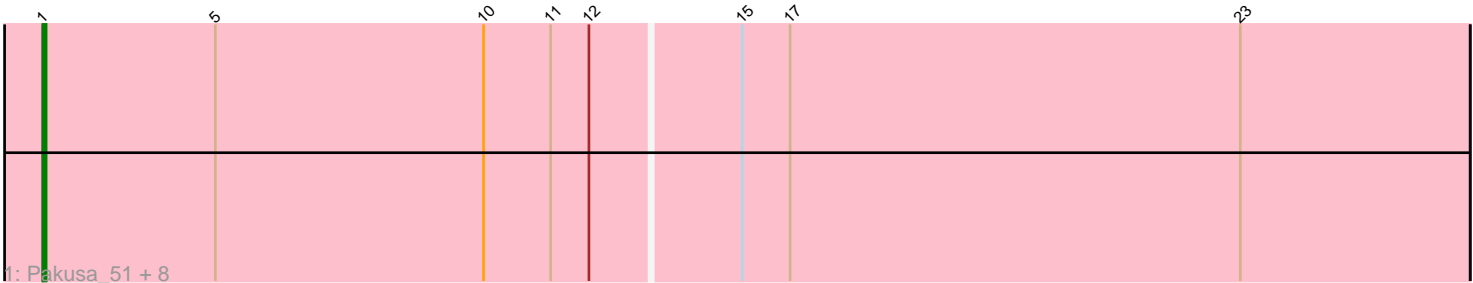2: FlyingTortilla_53 + 1

3: GMA6_38

4: UBSmoodge_55

5: DalanDe_48

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 8553 Report

This analysis was run 04/28/24 on database version 559.

Pham number 8553 has 14 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Pakusa_51, Oogie_53, Kabocha_54, ChisanaKitsune_49, Chidiebere_53, Aloki_51, Hanem_53, Gray_53, Schomber_52
• Track 2 : FlyingTortilla_53, ScarletRaider_52
• Track 3 : GMA6_38
• Track 4 : UBSmoodge_55
• Track 5 : DalanDe_48

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

The start number called the most often in the published annotations is 1, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_51, Chidiebere_53, ChisanaKitsune_49, FlyingTortilla_53, Gray_53, Hanem_53, Kabocha_54, Oogie_53, Pakusa_51, ScarletRaider_52, Schomber_52, UBSmoodge_55,

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

Genes that do not have the "Most Annotated" start:
• DalanDe_48, GMA6_38,

Summary by start number:

Start 1:
• Found in 12 of 14 (85.7%) of genes in pham
• Manual Annotations of this start: 6 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_51 (DQ), Chidiebere_53 (DQ), ChisanaKitsune_49 (DQ), FlyingTortilla_53 (DQ), Gray_53 (DQ), Hanem_53 (DQ), Kabocha_54 (DQ), Oogie_53 (DQ), Pakusa_51 (DQ), ScarletRaider_52 (DQ), Schomber_52 (DQ), UBSmoodge_55 (DQ),

Start 2:
• Found in 1 of 14 (7.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_38 (DQ),

Start 3:
• Found in 1 of 14 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_48 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:
•Start number 1 was manually annotated 6 times for cluster DQ.
•Start number 3 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_51 Start: 40932, Stop: 41375, Start Num: 1
Candidate Starts for Aloki_51:
(Start: 1 @40932 has 6 MA's), (5, 40986), (10, 41070), (11, 41091), (12, 41103), (15, 41148), (17, 41163), (23, 41304),

Gene: Chidiebere_53 Start: 40932, Stop: 41375, Start Num: 1
Candidate Starts for Chidiebere_53:
(Start: 1 @40932 has 6 MA's), (5, 40986), (10, 41070), (11, 41091), (12, 41103), (15, 41148), (17, 41163), (23, 41304),

Gene: ChisanaKitsune_49 Start: 39723, Stop: 40166, Start Num: 1
Candidate Starts for ChisanaKitsune_49:
(Start: 1 @39723 has 6 MA's), (5, 39777), (10, 39861), (11, 39882), (12, 39894), (15, 39939), (17, 39954), (23, 40095),

Gene: DalanDe_48 Start: 43951, Stop: 44385, Start Num: 3
Candidate Starts for DalanDe_48:
(Start: 3 @43951 has 1 MA's), (4, 43957), (9, 44071), (14, 44140), (20, 44281), (21, 44299), (22, 44305), (23, 44314), (24, 44362), (25, 44371),

Gene: FlyingTortilla_53 Start: 44513, Stop: 44956, Start Num: 1
Candidate Starts for FlyingTortilla_53:
(Start: 1 @44513 has 6 MA's), (5, 44567), (8, 44624), (9, 44642), (10, 44651), (11, 44672), (12, 44684), (15, 44729), (16, 44735), (19, 44795), (23, 44885),

Gene: GMA6_38 Start: 32254, Stop: 32694, Start Num: 2
Candidate Starts for GMA6_38:
(2, 32254), (6, 32329), (7, 32356), (10, 32389), (15, 32467), (18, 32497), (20, 32590), (23, 32623), (25, 32680),

Gene: Gray_53 Start: 40933, Stop: 41376, Start Num: 1
Candidate Starts for Gray_53:
(Start: 1 @40933 has 6 MA's), (5, 40987), (10, 41071), (11, 41092), (12, 41104), (15, 41149), (17, 41164), (23, 41305),

Gene: Hanem_53 Start: 40932, Stop: 41375, Start Num: 1
Candidate Starts for Hanem_53:
(Start: 1 @40932 has 6 MA's), (5, 40986), (10, 41070), (11, 41091), (12, 41103), (15, 41148), (17, 41163), (23, 41304),

Gene: Kabocha_54 Start: 41745, Stop: 42188, Start Num: 1
Candidate Starts for Kabocha_54:
(Start: 1 @41745 has 6 MA's), (5, 41799), (10, 41883), (11, 41904), (12, 41916), (15, 41961), (17, 41976), (23, 42117),

Gene: Oogie_53 Start: 42638, Stop: 43081, Start Num: 1
Candidate Starts for Oogie_53:
(Start: 1 @42638 has 6 MA's), (5, 42692), (10, 42776), (11, 42797), (12, 42809), (15, 42854), (17, 42869), (23, 43010),

Gene: Pakusa_51 Start: 40674, Stop: 41117, Start Num: 1
Candidate Starts for Pakusa_51:
(Start: 1 @40674 has 6 MA's), (5, 40728), (10, 40812), (11, 40833), (12, 40845), (15, 40890), (17, 40905), (23, 41046),

Gene: ScarletRaider_52 Start: 43821, Stop: 44264, Start Num: 1
Candidate Starts for ScarletRaider_52:
(Start: 1 @43821 has 6 MA's), (5, 43875), (8, 43932), (9, 43950), (10, 43959), (11, 43980), (12, 43992), (15, 44037), (16, 44043), (19, 44103), (23, 44193),

Gene: Schomber_52 Start: 40682, Stop: 41125, Start Num: 1
Candidate Starts for Schomber_52:
(Start: 1 @40682 has 6 MA's), (5, 40736), (10, 40820), (11, 40841), (12, 40853), (15, 40898), (17, 40913), (23, 41054),

Gene: UBSmoodge_55 Start: 44279, Stop: 44722, Start Num: 1
Candidate Starts for UBSmoodge_55:
(Start: 1 @44279 has 6 MA's), (5, 44333), (8, 44390), (9, 44408), (10, 44417), (11, 44438), (12, 44450), (13, 44453), (15, 44495), (16, 44501), (19, 44561), (23, 44651),