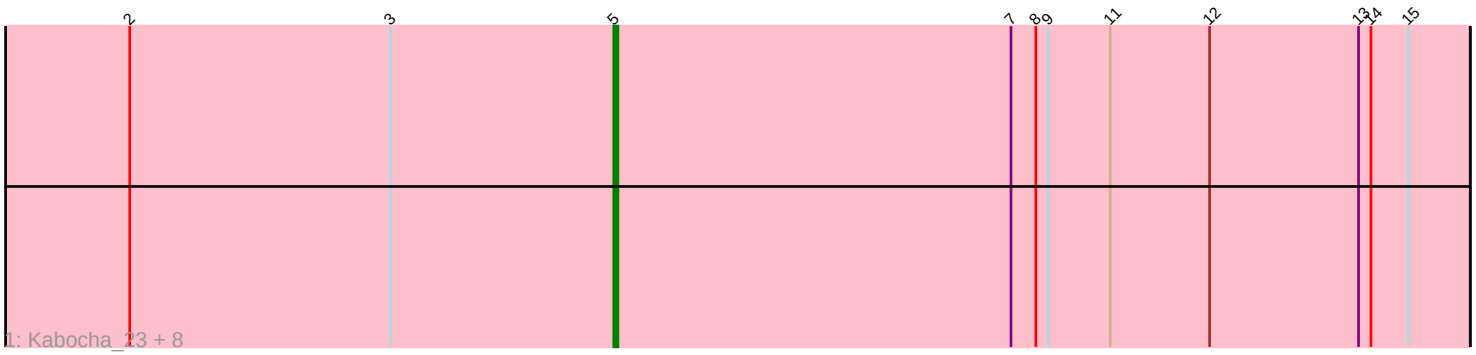
Pham 12306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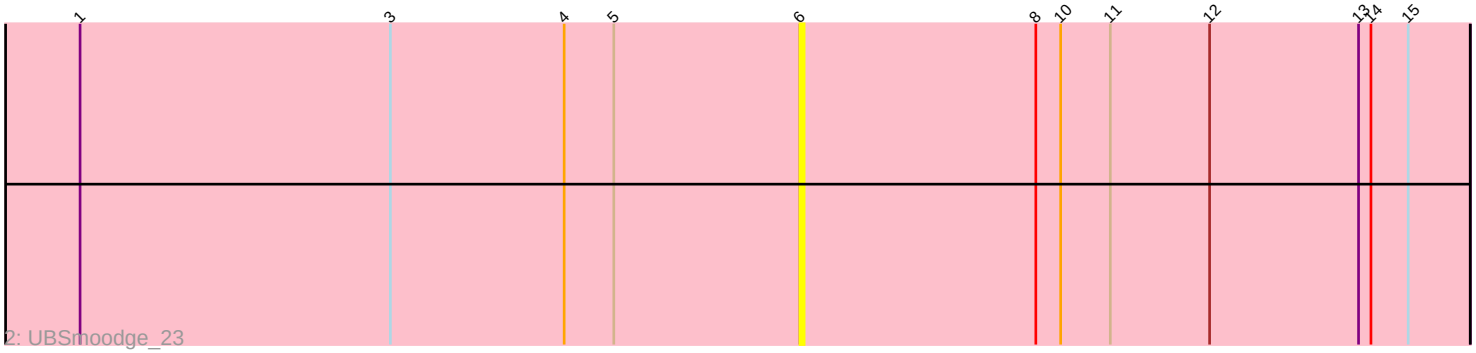
15
1: Kabocha_23 + 8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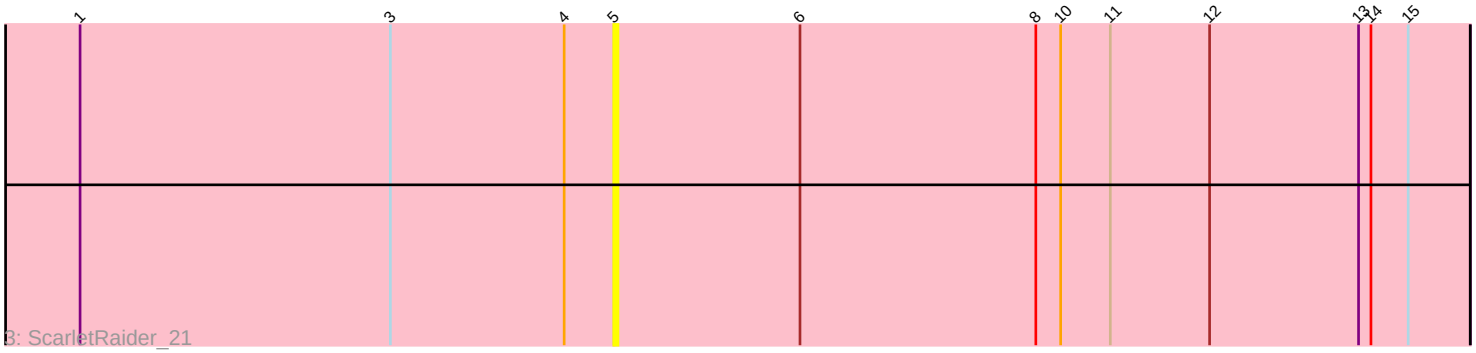
2: UBSmoodge_23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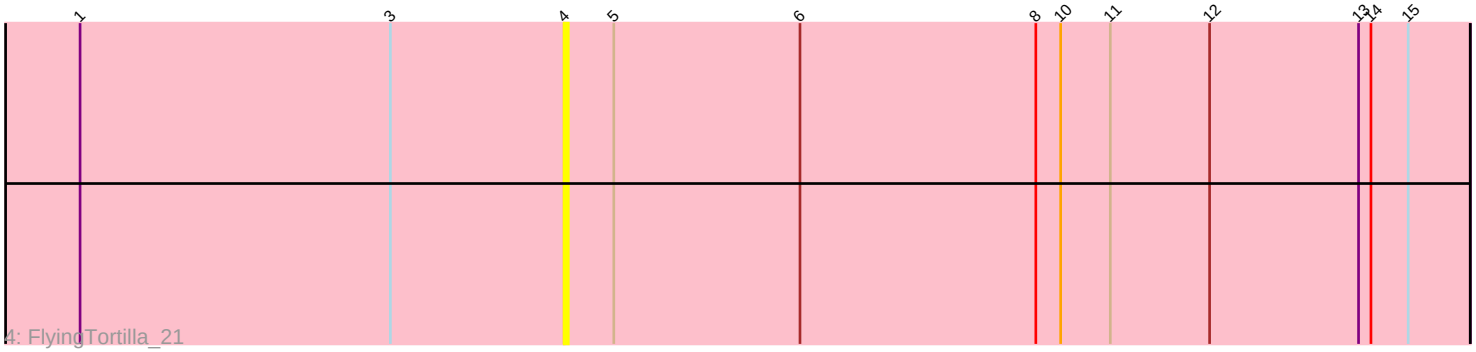
3: ScarletRaider_21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4: FlyingTortilla_21

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 12306 Report

This analysis was run 04/05/24 on database version 557.

Pham number 12306 has 12 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Kabocha_23, Pakusa_21, Chidiebere_22, Aloki_21, Hanem_22, Schomber_21, Gray_22, Oogie_21, ChisanaKitsune_18
• Track 2 : UBSmoodge_23
• Track 3 : ScarletRaider_21
• Track 4 : FlyingTortilla_21

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

The start number called the most often in the published annotations is 5, it was called in 6 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_21, Chidiebere_22, ChisanaKitsune_18, Gray_22, Hanem_22, Kabocha_23, Oogie_21, Pakusa_21, ScarletRaider_21, Schomber_21,

Genes that have the "Most Annotated" start but do not call it:
• FlyingTortilla_21, UBSmoodge_23,

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

Summary by start number:

Start 4:
• Found in 3 of 12 (25.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: FlyingTortilla_21 (DQ),

Start 5:
• Found in 12 of 12 (100.0%) of genes in pham
• Manual Annotations of this start: 6 of 6
• Called 83.3% of time when present

• Phage (with cluster) where this start called: Aloki_21 (DQ), Chidiebere_22 (DQ), ChisanaKitsune_18 (DQ), Gray_22 (DQ), Hanem_22 (DQ), Kabocha_23 (DQ), Oogie_21 (DQ), Pakusa_21 (DQ), ScarletRaider_21 (DQ), Schomber_21 (DQ),

Start 6:
• Found in 3 of 12 (25.0%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: UBSmoodge_23 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:
•Start number 5 was manually annotated 6 times for cluster DQ.

Gene Information:

Gene: Aloki_21 Start: 8812, Stop: 9018, Start Num: 5
Candidate Starts for Aloki_21:
(2, 8695), (3, 8758), (Start: 5 @8812 has 6 MA's), (7, 8908), (8, 8914), (9, 8917), (11, 8932), (12, 8956), (13, 8992), (14, 8995), (15, 9004),

Gene: Chidiebere_22 Start: 8812, Stop: 9018, Start Num: 5
Candidate Starts for Chidiebere_22:
(2, 8695), (3, 8758), (Start: 5 @8812 has 6 MA's), (7, 8908), (8, 8914), (9, 8917), (11, 8932), (12, 8956), (13, 8992), (14, 8995), (15, 9004),

Gene: ChisanaKitsune_18 Start: 7513, Stop: 7719, Start Num: 5
Candidate Starts for ChisanaKitsune_18:
(2, 7396), (3, 7459), (Start: 5 @7513 has 6 MA's), (7, 7609), (8, 7615), (9, 7618), (11, 7633), (12, 7657), (13, 7693), (14, 7696), (15, 7705),

Gene: FlyingTortilla_21 Start: 9860, Stop: 10078, Start Num: 4
Candidate Starts for FlyingTortilla_21:
(1, 9743), (3, 9818), (4, 9860), (Start: 5 @9872 has 6 MA's), (6, 9917), (8, 9974), (10, 9980), (11, 9992), (12, 10016), (13, 10052), (14, 10055), (15, 10064),

Gene: Gray_22 Start: 8812, Stop: 9018, Start Num: 5
Candidate Starts for Gray_22:
(2, 8695), (3, 8758), (Start: 5 @8812 has 6 MA's), (7, 8908), (8, 8914), (9, 8917), (11, 8932), (12, 8956), (13, 8992), (14, 8995), (15, 9004),

Gene: Hanem_22 Start: 8812, Stop: 9018, Start Num: 5
Candidate Starts for Hanem_22:
(2, 8695), (3, 8758), (Start: 5 @8812 has 6 MA's), (7, 8908), (8, 8914), (9, 8917), (11, 8932), (12, 8956), (13, 8992), (14, 8995), (15, 9004),

Gene: Kabocha_23 Start: 9625, Stop: 9831, Start Num: 5
Candidate Starts for Kabocha_23:

(2, 9508), (3, 9571), (Start: 5 @9625 has 6 MA's), (7, 9721), (8, 9727), (9, 9730), (11, 9745), (12, 9769), (13, 9805), (14, 9808), (15, 9817),

Gene: Oogie_21 Start: 8464, Stop: 8670, Start Num: 5
Candidate Starts for Oogie_21:
(2, 8347), (3, 8410), (Start: 5 @8464 has 6 MA's), (7, 8560), (8, 8566), (9, 8569), (11, 8584), (12, 8608), (13, 8644), (14, 8647), (15, 8656),

Gene: Pakusa_21 Start: 8554, Stop: 8760, Start Num: 5
Candidate Starts for Pakusa_21:
(2, 8437), (3, 8500), (Start: 5 @8554 has 6 MA's), (7, 8650), (8, 8656), (9, 8659), (11, 8674), (12, 8698), (13, 8734), (14, 8737), (15, 8746),

Gene: ScarletRaider_21 Start: 9899, Stop: 10105, Start Num: 5
Candidate Starts for ScarletRaider_21:
(1, 9770), (3, 9845), (4, 9887), (Start: 5 @9899 has 6 MA's), (6, 9944), (8, 10001), (10, 10007), (11, 10019), (12, 10043), (13, 10079), (14, 10082), (15, 10091),

Gene: Schomber_21 Start: 8562, Stop: 8768, Start Num: 5
Candidate Starts for Schomber_21:
(2, 8445), (3, 8508), (Start: 5 @8562 has 6 MA's), (7, 8658), (8, 8664), (9, 8667), (11, 8682), (12, 8706), (13, 8742), (14, 8745), (15, 8754),

Gene: UBSmoodge_23 Start: 10413, Stop: 10574, Start Num: 6
Candidate Starts for UBSmoodge_23:
(1, 10239), (3, 10314), (4, 10356), (Start: 5 @10368 has 6 MA's), (6, 10413), (8, 10470), (10, 10476), (11, 10488), (12, 10512), (13, 10548), (14, 10551), (15, 10560),