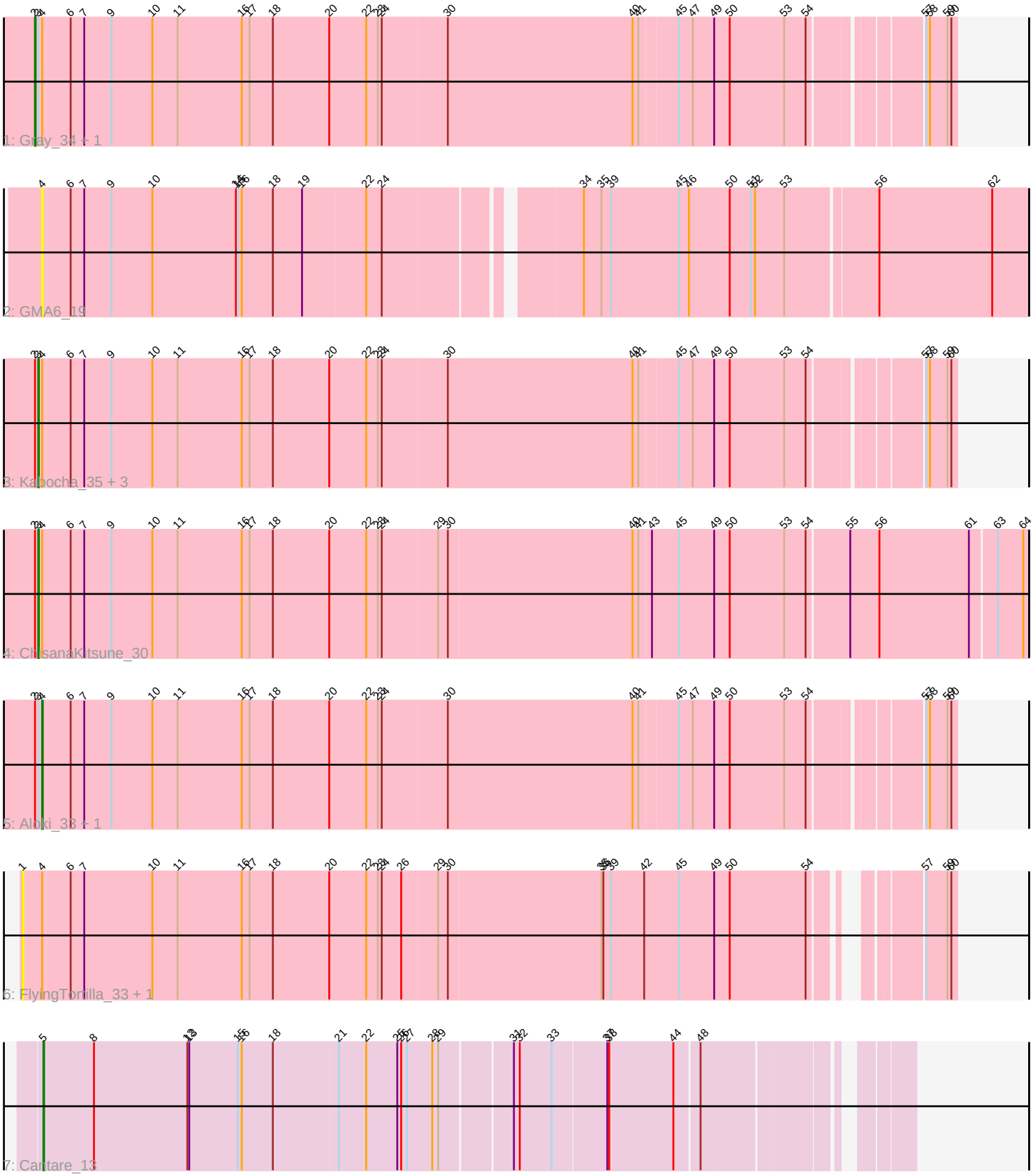
Pham 167131


1: Gray_34 + 1
2: GMA6_19
3: Kabocha_35 + 3
4: ChisanaKitsune_30
5: Aloki_38 + 1
6: FlyingTortilla_33 + 1
7: Cantare_13

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 167131 Report

This analysis was run 07/09/24 on database version 566.

Pham number 167131 has 13 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Gray_34, Pakusa_33
• Track 2 : GMA6_19
• Track 3 : Kabocha_35, Schomber_33, Hanem_34, Oogie_34
• Track 4 : ChisanaKitsune_30
• Track 5 : Aloki_33, Chidiebere_34
• Track 6 : FlyingTortilla_33, ScarletRaider_33
• Track 7 : Cantare_13

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

The start number called the most often in the published annotations is 3, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ChisanaKitsune_30, Hanem_34, Kabocha_35, Oogie_34, Schomber_33,

Genes that have the "Most Annotated" start but do not call it:
• Aloki_33, Chidiebere_34, Gray_34, Pakusa_33,

Genes that do not have the "Most Annotated" start:
• Cantare_13, FlyingTortilla_33, GMA6_19, ScarletRaider_33,

Summary by start number:

Start 1:
• Found in 2 of 13 (15.4%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FlyingTortilla_33 (DQ), ScarletRaider_33 (DQ),

Start 2:
• Found in 9 of 13 (69.2%) of genes in pham
• Manual Annotations of this start: 1 of 7

• Called 22.2% of time when present
• Phage (with cluster) where this start called: Gray_34 (DQ), Pakusa_33 (DQ),

Start 3:
• Found in 9 of 13 (69.2%) of genes in pham
• Manual Annotations of this start: 4 of 7
• Called 55.6% of time when present
• Phage (with cluster) where this start called: ChisanaKitsune_30 (DQ), Hanem_34 (DQ), Kabocha_35 (DQ), Oogie_34 (DQ), Schomber_33 (DQ),

Start 4:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Aloki_33 (DQ), Chidiebere_34 (DQ), GMA6_19 (DQ),

Start 5:
• Found in 1 of 13 (7.7%) 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: Cantare_13 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster DQ:
•Start number 2 was manually annotated 1 time for cluster DQ.
•Start number 3 was manually annotated 4 times for cluster DQ.
•Start number 4 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_33 Start: 23793, Stop: 25151, Start Num: 4
Candidate Starts for Aloki_33:
(Start: 2 @23784 has 1 MA's), (Start: 3 @23787 has 4 MA's), (Start: 4 @23793 has 1 MA's), (6, 23832), (7, 23853), (9, 23895), (10, 23958), (11, 23997), (16, 24096), (17, 24108), (18, 24144), (20, 24231), (22, 24288), (23, 24306), (24, 24312), (30, 24411), (40, 24696), (41, 24705), (45, 24762), (47, 24783), (49, 24816), (50, 24840), (53, 24924), (54, 24957), (57, 25104), (58, 25110), (59, 25137), (60, 25143),

Gene: Cantare_13 Start: 12173, Stop: 13426, Start Num: 5
Candidate Starts for Cantare_13:
(Start: 5 @12173 has 1 MA's), (8, 12251), (12, 12395), (13, 12398), (15, 12473), (16, 12479), (18, 12527), (21, 12626), (22, 12668), (25, 12716), (26, 12722), (27, 12731), (28, 12770), (29, 12779), (31, 12884), (32, 12893), (33, 12941), (37, 13019), (38, 13022), (44, 13121), (48, 13157),

Gene: Chidiebere_34 Start: 23793, Stop: 25151, Start Num: 4
Candidate Starts for Chidiebere_34:

(Start: 2 @23784 has 1 MA's), (Start: 3 @23787 has 4 MA's), (Start: 4 @23793 has 1 MA's), (6, 23832), (7, 23853), (9, 23895), (10, 23958), (11, 23997), (16, 24096), (17, 24108), (18, 24144), (20, 24231), (22, 24288), (23, 24306), (24, 24312), (30, 24411), (40, 24696), (41, 24705), (45, 24762), (47, 24783), (49, 24816), (50, 24840), (53, 24924), (54, 24957), (57, 25104), (58, 25110), (59, 25137), (60, 25143),

Gene: ChisanaKitsune_30 Start: 22439, Stop: 23944, Start Num: 3
Candidate Starts for ChisanaKitsune_30:
(Start: 2 @22436 has 1 MA's), (Start: 3 @22439 has 4 MA's), (Start: 4 @22445 has 1 MA's), (6, 22487), (7, 22508), (9, 22550), (10, 22613), (11, 22652), (16, 22751), (17, 22763), (18, 22799), (20, 22886), (22, 22943), (23, 22961), (24, 22967), (29, 23051), (30, 23066), (40, 23348), (41, 23357), (43, 23375), (45, 23417), (49, 23471), (50, 23495), (53, 23579), (54, 23612), (55, 23675), (56, 23720), (61, 23858), (63, 23897), (64, 23936),

Gene: FlyingTortilla_33 Start: 26668, Stop: 28026, Start Num: 1
Candidate Starts for FlyingTortilla_33:
(1, 26668), (Start: 4 @26698 has 1 MA's), (6, 26737), (7, 26758), (10, 26863), (11, 26902), (16, 27001), (17, 27013), (18, 27049), (20, 27136), (22, 27193), (23, 27211), (24, 27217), (26, 27247), (29, 27301), (30, 27316), (35, 27550), (36, 27553), (39, 27565), (42, 27616), (45, 27670), (49, 27724), (50, 27748), (54, 27865), (57, 27979), (59, 28012), (60, 28018),

Gene: GMA6_19 Start: 15585, Stop: 17039, Start Num: 4
Candidate Starts for GMA6_19:
(Start: 4 @15585 has 1 MA's), (6, 15624), (7, 15645), (9, 15687), (10, 15750), (14, 15879), (15, 15882), (16, 15888), (18, 15936), (19, 15981), (22, 16077), (24, 16101), (34, 16368), (35, 16395), (39, 16410), (45, 16515), (46, 16530), (50, 16593), (51, 16626), (52, 16632), (53, 16677), (56, 16812), (62, 16986),

Gene: Gray_34 Start: 23784, Stop: 25151, Start Num: 2
Candidate Starts for Gray_34:
(Start: 2 @23784 has 1 MA's), (Start: 3 @23787 has 4 MA's), (Start: 4 @23793 has 1 MA's), (6, 23832), (7, 23853), (9, 23895), (10, 23958), (11, 23997), (16, 24096), (17, 24108), (18, 24144), (20, 24231), (22, 24288), (23, 24306), (24, 24312), (30, 24411), (40, 24696), (41, 24705), (45, 24762), (47, 24783), (49, 24816), (50, 24840), (53, 24924), (54, 24957), (57, 25104), (58, 25110), (59, 25137), (60, 25143),

Gene: Hanem_34 Start: 23787, Stop: 25151, Start Num: 3
Candidate Starts for Hanem_34:
(Start: 2 @23784 has 1 MA's), (Start: 3 @23787 has 4 MA's), (Start: 4 @23793 has 1 MA's), (6, 23832), (7, 23853), (9, 23895), (10, 23958), (11, 23997), (16, 24096), (17, 24108), (18, 24144), (20, 24231), (22, 24288), (23, 24306), (24, 24312), (30, 24411), (40, 24696), (41, 24705), (45, 24762), (47, 24783), (49, 24816), (50, 24840), (53, 24924), (54, 24957), (57, 25104), (58, 25110), (59, 25137), (60, 25143),

Gene: Kabocha_35 Start: 24600, Stop: 25964, Start Num: 3
Candidate Starts for Kabocha_35:
(Start: 2 @24597 has 1 MA's), (Start: 3 @24600 has 4 MA's), (Start: 4 @24606 has 1 MA's), (6, 24645), (7, 24666), (9, 24708), (10, 24771), (11, 24810), (16, 24909), (17, 24921), (18, 24957), (20, 25044), (22, 25101), (23, 25119), (24, 25125), (30, 25224), (40, 25509), (41, 25518), (45, 25575), (47, 25596), (49, 25629), (50, 25653), (53, 25737), (54, 25770), (57, 25917), (58, 25923), (59, 25950), (60, 25956),

Gene: Oogie_34 Start: 25490, Stop: 26857, Start Num: 3

Candidate Starts for Oogie_34:
(Start: 2 @25487 has 1 MA's), (Start: 3 @25490 has 4 MA's), (Start: 4 @25496 has 1 MA's), (6, 25538), (7, 25559), (9, 25601), (10, 25664), (11, 25703), (16, 25802), (17, 25814), (18, 25850), (20, 25937), (22, 25994), (23, 26012), (24, 26018), (30, 26117), (40, 26402), (41, 26411), (45, 26468), (47, 26489), (49, 26522), (50, 26546), (53, 26630), (54, 26663), (57, 26810), (58, 26816), (59, 26843), (60, 26849),

Gene: Pakusa_33 Start: 23526, Stop: 24893, Start Num: 2
Candidate Starts for Pakusa_33:
(Start: 2 @23526 has 1 MA's), (Start: 3 @23529 has 4 MA's), (Start: 4 @23535 has 1 MA's), (6, 23574), (7, 23595), (9, 23637), (10, 23700), (11, 23739), (16, 23838), (17, 23850), (18, 23886), (20, 23973), (22, 24030), (23, 24048), (24, 24054), (30, 24153), (40, 24438), (41, 24447), (45, 24504), (47, 24525), (49, 24558), (50, 24582), (53, 24666), (54, 24699), (57, 24846), (58, 24852), (59, 24879), (60, 24885),

Gene: ScarletRaider_33 Start: 26695, Stop: 28053, Start Num: 1
Candidate Starts for ScarletRaider_33:
(1, 26695), (Start: 4 @26725 has 1 MA's), (6, 26764), (7, 26785), (10, 26890), (11, 26929), (16, 27028), (17, 27040), (18, 27076), (20, 27163), (22, 27220), (23, 27238), (24, 27244), (26, 27274), (29, 27328), (30, 27343), (35, 27577), (36, 27580), (39, 27592), (42, 27643), (45, 27697), (49, 27751), (50, 27775), (54, 27892), (57, 28006), (59, 28039), (60, 28045),

Gene: Schomber_33 Start: 23537, Stop: 24901, Start Num: 3
Candidate Starts for Schomber_33:
(Start: 2 @23534 has 1 MA's), (Start: 3 @23537 has 4 MA's), (Start: 4 @23543 has 1 MA's), (6, 23582), (7, 23603), (9, 23645), (10, 23708), (11, 23747), (16, 23846), (17, 23858), (18, 23894), (20, 23981), (22, 24038), (23, 24056), (24, 24062), (30, 24161), (40, 24446), (41, 24455), (45, 24512), (47, 24533), (49, 24566), (50, 24590), (53, 24674), (54, 24707), (57, 24854), (58, 24860), (59, 24887), (60, 24893),