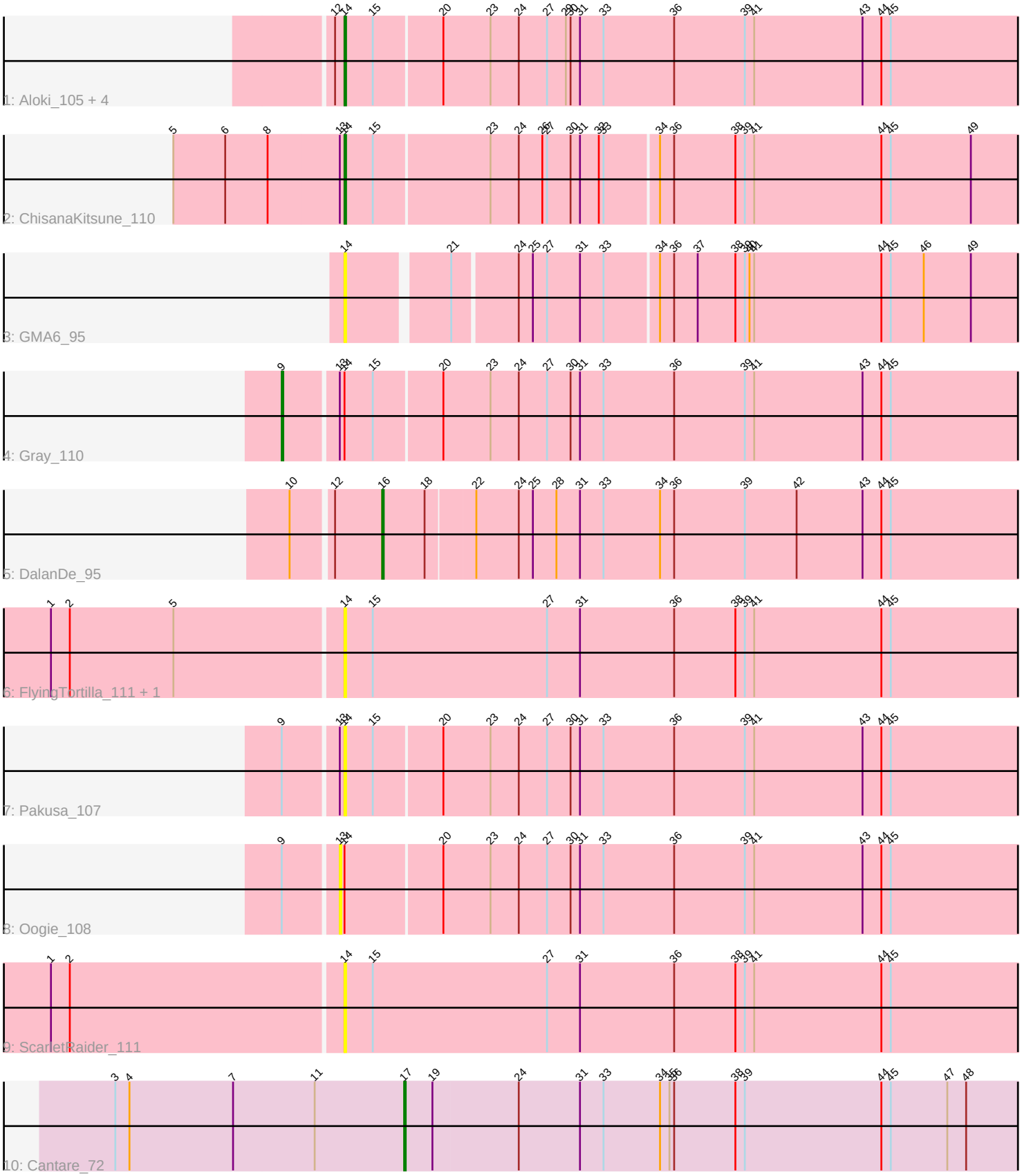
Pham 7523


1: Aloki_105 + 4
2: ChisanaKitsune_110
3: GMA6_95
4: Gray_110
5: DalanDe_95
6: FlyingTortilla_111 + 1
7: Pakusa_107
8: Oogie_108
9: ScarletRaider_111
10: Cantare_72

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 7523 Report

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

Pham number 7523 has 15 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Aloki_105, Chidiebere_113, Kabocha_114, Hanem_112, Schomber_111
• Track 2 : ChisanaKitsune_110
• Track 3 : GMA6_95
• Track 4 : Gray_110
• Track 5 : DalanDe_95
• Track 6 : FlyingTortilla_111, UBSmoodge_113
• Track 7 : Pakusa_107
• Track 8 : Oogie_108
• Track 9 : ScarletRaider_111
• Track 10 : Cantare_72

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

The start number called the most often in the published annotations is 14, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_105, Chidiebere_113, ChisanaKitsune_110, FlyingTortilla_111, GMA6_95, Hanem_112, Kabocha_114, Pakusa_107, ScarletRaider_111, Schomber_111, UBSmoodge_113,

Genes that have the "Most Annotated" start but do not call it:
• Gray_110, Oogie_108,

Genes that do not have the "Most Annotated" start:
• Cantare_72, DalanDe_95,

Summary by start number:

Start 9:
• Found in 3 of 15 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Gray_110 (DQ),

Start 13:
• Found in 4 of 15 (26.7%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Oogie_108 (DQ),

Start 14:
• Found in 13 of 15 (86.7%) of genes in pham
• Manual Annotations of this start: 5 of 8
• Called 84.6% of time when present
• Phage (with cluster) where this start called: Aloki_105 (DQ), Chidiebere_113 (DQ), ChisanaKitsune_110 (DQ), FlyingTortilla_111 (DQ), GMA6_95 (DQ), Hanem_112 (DQ), Kabocha_114 (DQ), Pakusa_107 (DQ), ScarletRaider_111 (DQ), Schomber_111 (DQ), UBSmoodge_113 (DQ),

Start 16:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_95 (DQ),

Start 17:
• Found in 1 of 15 (6.7%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_72 (singleton),

Summary by clusters:

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

Info for manual annotations of cluster DQ:
•Start number 9 was manually annotated 1 time for cluster DQ.
•Start number 14 was manually annotated 5 times for cluster DQ.
•Start number 16 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_105 Start: 77680, Stop: 78117, Start Num: 14
Candidate Starts for Aloki_105:
(12, 77674), (Start: 14 @77680 has 5 MA's), (15, 77698), (20, 77740), (23, 77770), (24, 77788), (27, 77806), (29, 77818), (30, 77821), (31, 77827), (33, 77842), (36, 77887), (39, 77932), (41, 77938), (43, 78007), (44, 78019), (45, 78025),

Gene: Cantare_72 Start: 60807, Stop: 61208, Start Num: 17
Candidate Starts for Cantare_72:
(3, 60624), (4, 60633), (7, 60699), (11, 60750), (Start: 17 @60807 has 1 MA's), (19, 60825), (24, 60879), (31, 60918), (33, 60933), (34, 60969), (35, 60975), (36, 60978), (38, 61017), (39, 61023), (44, 61110), (45, 61116), (47, 61152), (48, 61164),

Gene: Chidiebere_113 Start: 78810, Stop: 79247, Start Num: 14
Candidate Starts for Chidiebere_113:
(12, 78804), (Start: 14 @78810 has 5 MA's), (15, 78828), (20, 78870), (23, 78900), (24, 78918), (27, 78936), (29, 78948), (30, 78951), (31, 78957), (33, 78972), (36, 79017), (39, 79062), (41, 79068), (43, 79137), (44, 79149), (45, 79155),

Gene: ChisanaKitsune_110 Start: 77446, Stop: 77892, Start Num: 14
Candidate Starts for ChisanaKitsune_110:
(5, 77338), (6, 77371), (8, 77398), (13, 77443), (Start: 14 @77446 has 5 MA's), (15, 77464), (23, 77536), (24, 77554), (26, 77569), (27, 77572), (30, 77587), (31, 77593), (32, 77605), (33, 77608), (34, 77641), (36, 77650), (38, 77689), (39, 77695), (41, 77701), (44, 77782), (45, 77788), (49, 77839),

Gene: DalanDe_95 Start: 76407, Stop: 76820, Start Num: 16
Candidate Starts for DalanDe_95:
(10, 76353), (12, 76377), (Start: 16 @76407 has 1 MA's), (18, 76434), (22, 76464), (24, 76491), (25, 76500), (28, 76515), (31, 76530), (33, 76545), (34, 76581), (36, 76590), (39, 76635), (42, 76668), (43, 76710), (44, 76722), (45, 76728),

Gene: FlyingTortilla_111 Start: 81677, Stop: 82117, Start Num: 14
Candidate Starts for FlyingTortilla_111:
(1, 81494), (2, 81506), (5, 81572), (Start: 14 @81677 has 5 MA's), (15, 81695), (27, 81806), (31, 81827), (36, 81887), (38, 81926), (39, 81932), (41, 81938), (44, 82019), (45, 82025),

Gene: GMA6_95 Start: 69442, Stop: 69879, Start Num: 14
Candidate Starts for GMA6_95:
(Start: 14 @69442 has 5 MA's), (21, 69502), (24, 69541), (25, 69550), (27, 69559), (31, 69580), (33, 69595), (34, 69628), (36, 69637), (37, 69652), (38, 69676), (39, 69682), (40, 69685), (41, 69688), (44, 69769), (45, 69775), (46, 69796), (49, 69826),

Gene: Gray_110 Start: 78107, Stop: 78580, Start Num: 9
Candidate Starts for Gray_110:
(Start: 9 @78107 has 1 MA's), (13, 78140), (Start: 14 @78143 has 5 MA's), (15, 78161), (20, 78203), (23, 78233), (24, 78251), (27, 78269), (30, 78284), (31, 78290), (33, 78305), (36, 78350), (39, 78395), (41, 78401), (43, 78470), (44, 78482), (45, 78488),

Gene: Hanem_112 Start: 77680, Stop: 78117, Start Num: 14
Candidate Starts for Hanem_112:
(12, 77674), (Start: 14 @77680 has 5 MA's), (15, 77698), (20, 77740), (23, 77770), (24, 77788), (27, 77806), (29, 77818), (30, 77821), (31, 77827), (33, 77842), (36, 77887), (39, 77932), (41, 77938), (43, 78007), (44, 78019), (45, 78025),

Gene: Kabocha_114 Start: 79623, Stop: 80060, Start Num: 14
Candidate Starts for Kabocha_114:
(12, 79617), (Start: 14 @79623 has 5 MA's), (15, 79641), (20, 79683), (23, 79713), (24, 79731), (27, 79749), (29, 79761), (30, 79764), (31, 79770), (33, 79785), (36, 79830), (39, 79875), (41, 79881), (43, 79950), (44, 79962), (45, 79968),

Gene: Oogie_108 Start: 79640, Stop: 80080, Start Num: 13
Candidate Starts for Oogie_108:
(Start: 9 @79607 has 1 MA's), (13, 79640), (Start: 14 @79643 has 5 MA's), (20, 79703), (23, 79733), (24, 79751), (27, 79769), (30, 79784), (31, 79790), (33, 79805), (36, 79850), (39, 79895), (41, 79901), (43, 79970), (44, 79982), (45, 79988),

Gene: Pakusa_107 Start: 77608, Stop: 78045, Start Num: 14
Candidate Starts for Pakusa_107:
(Start: 9 @77572 has 1 MA's), (13, 77605), (Start: 14 @77608 has 5 MA's), (15, 77626), (20, 77668), (23, 77698), (24, 77716), (27, 77734), (30, 77749), (31, 77755), (33, 77770), (36, 77815), (39, 77860), (41, 77866), (43, 77935), (44, 77947), (45, 77953),

Gene: ScarletRaider_111 Start: 80894, Stop: 81334, Start Num: 14
Candidate Starts for ScarletRaider_111:
(1, 80711), (2, 80723), (Start: 14 @80894 has 5 MA's), (15, 80912), (27, 81023), (31, 81044), (36, 81104), (38, 81143), (39, 81149), (41, 81155), (44, 81236), (45, 81242),

Gene: Schomber_111 Start: 78011, Stop: 78448, Start Num: 14
Candidate Starts for Schomber_111:
(12, 78005), (Start: 14 @78011 has 5 MA's), (15, 78029), (20, 78071), (23, 78101), (24, 78119), (27, 78137), (29, 78149), (30, 78152), (31, 78158), (33, 78173), (36, 78218), (39, 78263), (41, 78269), (43, 78338), (44, 78350), (45, 78356),

Gene: UBSmoodge_113 Start: 81464, Stop: 81904, Start Num: 14
Candidate Starts for UBSmoodge_113:
(1, 81281), (2, 81293), (5, 81359), (Start: 14 @81464 has 5 MA's), (15, 81482), (27, 81593), (31, 81614), (36, 81674), (38, 81713), (39, 81719), (41, 81725), (44, 81806), (45, 81812),