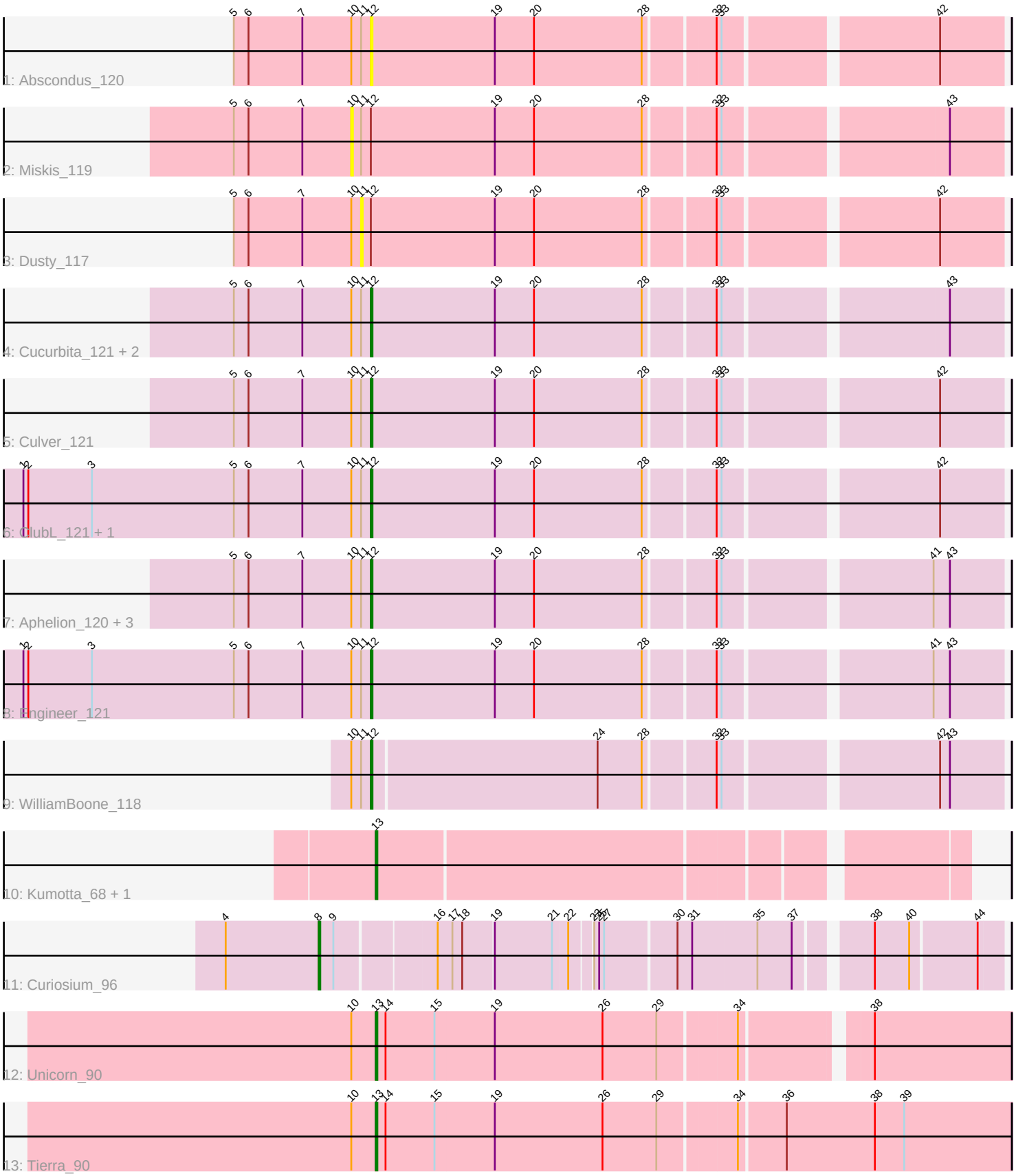
Pham 138260


1: Abscondus_120
2: Miskis_119
3: Dusty_117
4: Cucurbita_121 + 2
5: Culver_121
6: ClubL_121 + 1
7: Aphelion_120 + 3
8: Engineer_121
9: WilliamBoone_118
10: Kumotta_68 + 1
11: Curiosium_96
12: Unicorn_90
13: Tierra_90

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 138260 Report

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

Pham number 138260 has 20 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Abscondus_120
• Track 2 : Miskis_119
• Track 3 : Dusty_117
• Track 4 : Cucurbita_121, PhinkBoden_120, Toniann_120
• Track 5 : Culver_121
• Track 6 : ClubL_121, Norvs_120
• Track 7 : Aphelion_120, Smoothie_121, Lozinak_120, Bachita_122
• Track 8 : Engineer_121
• Track 9 : WilliamBoone_118
• Track 10 : Kumotta_68, MargaretKali_64
• Track 11 : Curiosium_96
• Track 12 : Unicorn_90
• Track 13 : Tierra_90

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

The start number called the most often in the published annotations is 12, it was called in 12 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abscondus_120, Aphelion_120, Bachita_122, ClubL_121, Cucurbita_121, Culver_121, Engineer_121, Lozinak_120, Norvs_120, PhinkBoden_120, Smoothie_121, Toniann_120, WilliamBoone_118,

Genes that have the "Most Annotated" start but do not call it:
• Dusty_117, Miskis_119,

Genes that do not have the "Most Annotated" start:
• Curiosium_96, Kumotta_68, MargaretKali_64, Tierra_90, Unicorn_90,

Summary by start number:

Start 8:
• Found in 1 of 20 (5.0%) of genes in pham

• Manual Annotations of this start: 1 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Curiosium_96 (K1),

Start 10:
• Found in 17 of 20 (85.0%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Miskis_119 (CQ),

Start 11:
• Found in 15 of 20 (75.0%) of genes in pham
• No Manual Annotations of this start.
• Called 6.7% of time when present
• Phage (with cluster) where this start called: Dusty_117 (CQ),

Start 12:
• Found in 15 of 20 (75.0%) of genes in pham
• Manual Annotations of this start: 12 of 17
• Called 86.7% of time when present
• Phage (with cluster) where this start called: Abscondus_120 (CQ), Aphelion_120 (CQ1), Bachita_122 (CQ1), ClubL_121 (CQ1), Cucurbita_121 (CQ1), Culver_121 (CQ1), Engineer_121 (CQ1), Lozinak_120 (CQ1), Norvs_120 (CQ), PhinkBoden_120 (CQ1), Smoothie_121 (CQ1), Toniann_120 (CQ1), WilliamBoone_118 (CQ1),

Start 13:
• Found in 4 of 20 (20.0%) of genes in pham
• Manual Annotations of this start: 4 of 17
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kumotta_68 (FB), MargaretKali_64 (FB), Tierra_90 (K6), Unicorn_90 (K6),

Summary by clusters:

There are 5 clusters represented in this pham: K1, CQ1, CQ, FB, K6,

Info for manual annotations of cluster CQ:
•Start number 12 was manually annotated 1 time for cluster CQ.

Info for manual annotations of cluster CQ1:
•Start number 12 was manually annotated 11 times for cluster CQ1.

Info for manual annotations of cluster FB:
•Start number 13 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster K1:
•Start number 8 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K6:
•Start number 13 was manually annotated 2 times for cluster K6.

Gene Information:

Gene: Abscondus_120 Start: 68243, Stop: 68608, Start Num: 12
Candidate Starts for Abscondus_120:
(5, 68159), (6, 68168), (7, 68201), (10, 68231), (11, 68237), (Start: 12 @68243 has 12 MA's), (19, 68318), (20, 68342), (28, 68408), (32, 68447), (33, 68450), (42, 68570),

Gene: Aphelion_120 Start: 69124, Stop: 69489, Start Num: 12
Candidate Starts for Aphelion_120:
(5, 69040), (6, 69049), (7, 69082), (10, 69112), (11, 69118), (Start: 12 @69124 has 12 MA's), (19, 69199), (20, 69223), (28, 69289), (32, 69328), (33, 69331), (41, 69448), (43, 69457),

Gene: Bachita_122 Start: 68903, Stop: 69268, Start Num: 12
Candidate Starts for Bachita_122:
(5, 68819), (6, 68828), (7, 68861), (10, 68891), (11, 68897), (Start: 12 @68903 has 12 MA's), (19, 68978), (20, 69002), (28, 69068), (32, 69107), (33, 69110), (41, 69227), (43, 69236),

Gene: ClubL_121 Start: 67833, Stop: 68198, Start Num: 12
Candidate Starts for ClubL_121:
(1, 67620), (2, 67623), (3, 67662), (5, 67749), (6, 67758), (7, 67791), (10, 67821), (11, 67827), (Start: 12 @67833 has 12 MA's), (19, 67908), (20, 67932), (28, 67998), (32, 68037), (33, 68040), (42, 68160),

Gene: Cucurbita_121 Start: 69398, Stop: 69763, Start Num: 12
Candidate Starts for Cucurbita_121:
(5, 69314), (6, 69323), (7, 69356), (10, 69386), (11, 69392), (Start: 12 @69398 has 12 MA's), (19, 69473), (20, 69497), (28, 69563), (32, 69602), (33, 69605), (43, 69731),

Gene: Culver_121 Start: 67593, Stop: 67958, Start Num: 12
Candidate Starts for Culver_121:
(5, 67509), (6, 67518), (7, 67551), (10, 67581), (11, 67587), (Start: 12 @67593 has 12 MA's), (19, 67668), (20, 67692), (28, 67758), (32, 67797), (33, 67800), (42, 67920),

Gene: Curiosium_96 Start: 57501, Stop: 57884, Start Num: 8
Candidate Starts for Curiosium_96:
(4, 57444), (Start: 8 @57501 has 1 MA's), (9, 57510), (16, 57567), (17, 57576), (18, 57582), (19, 57600), (21, 57633), (22, 57642), (23, 57654), (25, 57657), (27, 57660), (30, 57702), (31, 57711), (35, 57750), (37, 57771), (38, 57810), (40, 57831), (44, 57870),

Gene: Dusty_117 Start: 67799, Stop: 68170, Start Num: 11
Candidate Starts for Dusty_117:
(5, 67721), (6, 67730), (7, 67763), (10, 67793), (11, 67799), (Start: 12 @67805 has 12 MA's), (19, 67880), (20, 67904), (28, 67970), (32, 68009), (33, 68012), (42, 68132),

Gene: Engineer_121 Start: 68876, Stop: 69241, Start Num: 12
Candidate Starts for Engineer_121:
(1, 68663), (2, 68666), (3, 68705), (5, 68792), (6, 68801), (7, 68834), (10, 68864), (11, 68870), (Start: 12 @68876 has 12 MA's), (19, 68951), (20, 68975), (28, 69041), (32, 69080), (33, 69083), (41, 69200), (43, 69209),

Gene: Kumotta_68 Start: 36926, Stop: 37261, Start Num: 13
Candidate Starts for Kumotta_68:
(Start: 13 @36926 has 4 MA's),

Gene: Lozinak_120 Start: 68714, Stop: 69079, Start Num: 12
Candidate Starts for Lozinak_120:
(5, 68630), (6, 68639), (7, 68672), (10, 68702), (11, 68708), (Start: 12 @68714 has 12 MA's), (19, 68789), (20, 68813), (28, 68879), (32, 68918), (33, 68921), (41, 69038), (43, 69047),

Gene: MargaretKali_64 Start: 35544, Stop: 35879, Start Num: 13
Candidate Starts for MargaretKali_64:
(Start: 13 @35544 has 4 MA's),

Gene: Miskis_119 Start: 67719, Stop: 68096, Start Num: 10
Candidate Starts for Miskis_119:
(5, 67647), (6, 67656), (7, 67689), (10, 67719), (11, 67725), (Start: 12 @67731 has 12 MA's), (19, 67806), (20, 67830), (28, 67896), (32, 67935), (33, 67938), (43, 68064),

Gene: Norvs_120 Start: 68315, Stop: 68680, Start Num: 12
Candidate Starts for Norvs_120:
(1, 68102), (2, 68105), (3, 68144), (5, 68231), (6, 68240), (7, 68273), (10, 68303), (11, 68309), (Start: 12 @68315 has 12 MA's), (19, 68390), (20, 68414), (28, 68480), (32, 68519), (33, 68522), (42, 68642),

Gene: PhinkBoden_120 Start: 69003, Stop: 69368, Start Num: 12
Candidate Starts for PhinkBoden_120:
(5, 68919), (6, 68928), (7, 68961), (10, 68991), (11, 68997), (Start: 12 @69003 has 12 MA's), (19, 69078), (20, 69102), (28, 69168), (32, 69207), (33, 69210), (43, 69336),

Gene: Smoothie_121 Start: 68714, Stop: 69079, Start Num: 12
Candidate Starts for Smoothie_121:
(5, 68630), (6, 68639), (7, 68672), (10, 68702), (11, 68708), (Start: 12 @68714 has 12 MA's), (19, 68789), (20, 68813), (28, 68879), (32, 68918), (33, 68921), (41, 69038), (43, 69047),

Gene: Tierra_90 Start: 54968, Stop: 55348, Start Num: 13
Candidate Starts for Tierra_90:
(10, 54953), (Start: 13 @54968 has 4 MA's), (14, 54974), (15, 55004), (19, 55040), (26, 55106), (29, 55139), (34, 55184), (36, 55211), (38, 55265), (39, 55283),

Gene: Toniann_120 Start: 68248, Stop: 68613, Start Num: 12
Candidate Starts for Toniann_120:
(5, 68164), (6, 68173), (7, 68206), (10, 68236), (11, 68242), (Start: 12 @68248 has 12 MA's), (19, 68323), (20, 68347), (28, 68413), (32, 68452), (33, 68455), (43, 68581),

Gene: Unicorn_90 Start: 54691, Stop: 55059, Start Num: 13
Candidate Starts for Unicorn_90:
(10, 54676), (Start: 13 @54691 has 4 MA's), (14, 54697), (15, 54727), (19, 54763), (26, 54829), (29, 54862), (34, 54907), (38, 54976),

Gene: WilliamBoone_118 Start: 65566, Stop: 65928, Start Num: 12
Candidate Starts for WilliamBoone_118:
(10, 65554), (11, 65560), (Start: 12 @65566 has 12 MA's), (24, 65701), (28, 65728), (32, 65767), (33, 65770), (42, 65890), (43, 65896),