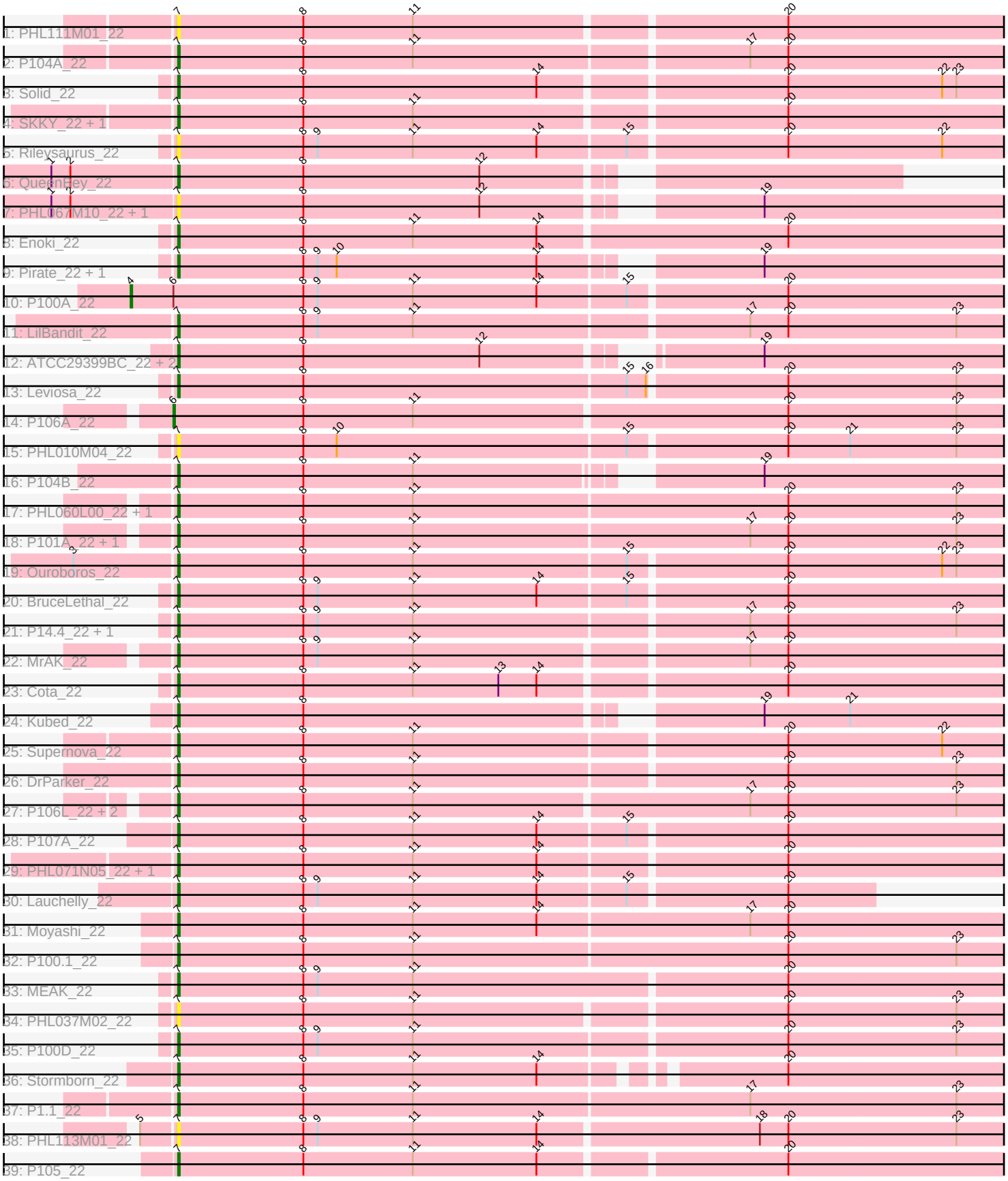
Pham 85751


1: PHL111M01_22
2: P104A_22
3: Solid_22
4: SKKY_22 + 1
5: Rileysaurus_22
6: Queenbey_22
7: PHL067M10_22 + 1
8: Enoki_22
9: Pirate_22 + 1
10: P100A_22
11: LilBandit_22
12: ATCC29399BC_22 + 2
13: Leviosa_22
14: P106A_22
15: PHL010M04_22
16: P104B_22
17: PHL060L00_22 + 1
18: P101A_22 + 1
19: Ouroboros_22
20: BruceLethal_22
21: P14.4_22 + 1
22: MrAK_22
23: Cota_22
24: Kubed_22
25: Supernova_22
26: DrParker_22
27: P106L_22 + 2
28: P107A_22
29: PHL071N05_22 + 1
30: Lauchelly_22
31: Moyashi_22
32: P100.1_22
33: MEAK_22
34: PHL037M02_22
35: P100D_22
36: Stormborn_22
37: P1.1_22
38: PHL113M01_22
39: P105_22

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 85751 Report

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

Pham number 85751 has 50 members, 11 are drafts.

Phages represented in each track:
- Track 1 : PHL111M01_22
- Track 2 : P104A_22
- Track 3 : Solid_22
- Track 4 : SKKY_22, Enochoraptor_23
- Track 5 : Rileysaurus_22
- Track 6 : QueenBey_22
- Track 7 : PHL067M10_22, PHL114L00_22
- Track 8 : Enoki_22
- Track 9 : Pirate_22, Keiki_22
- Track 10 : P100A_22
- Track 11 : LilBandit_22
- Track 12 : ATCC29399BC_22, ATCC29399BT_22, P107C_22
- Track 13 : Leviosa_22
- Track 14 : P106A_22
- Track 15 : PHL010M04_22
- Track 16 : P104B_22
- Track 17 : PHL060L00_22, P9.1_22
- Track 18 : P101A_22, PHL112N00_22
- Track 19 : Ouroboros_22
- Track 20 : BruceLethal_22
- Track 21 : P14.4_22, Procrass1_22
- Track 22 : MrAK_22
- Track 23 : Cota_22
- Track 24 : Kubed_22
- Track 25 : Supernova_22
- Track 26 : DrParker_22
- Track 27 : P106L_22, P106M_22, P106I_22
- Track 28 : P107A_22
- Track 29 : PHL071N05_22, P108C_22
- Track 30 : Lauchelly_22
- Track 31 : Moyashi_22
- Track 32 : P100.1_22
- Track 33 : MEAK_22
- Track 34 : PHL037M02_22
- Track 35 : P100D_22
- Track 36 : Stormborn_22
- Track 37 : P1.1_22

• Track 38 : PHL113M01_22
• Track 39 : P105_22

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

The start number called the most often in the published annotations is 7, it was called in 37 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_22, ATCC29399BT_22, BruceLethal_22, Cota_22, DrParker_22, Enochoraptor_23, Enoki_22, Keiki_22, Kubed_22, Lauchelly_22, Leviosa_22, LilBandit_22, MEAK_22, Moyashi_22, MrAK_22, Ouroboros_22, P1.1_22, P100.1_22, P100D_22, P101A_22, P104A_22, P104B_22, P105_22, P106I_22, P106L_22, P106M_22, P107A_22, P107C_22, P108C_22, P14.4_22, P9.1_22, PHL010M04_22, PHL037M02_22, PHL060L00_22, PHL067M10_22, PHL071N05_22, PHL111M01_22, PHL112N00_22, PHL113M01_22, PHL114L00_22, Pirate_22, Procrass1_22, QueenBey_22, Rileysaurus_22, SKKY_22, Solid_22, Stormborn_22, Supernova_22,

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

Genes that do not have the "Most Annotated" start:
• P100A_22, P106A_22,

Summary by start number:

Start 4:
• Found in 1 of 50 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: P100A_22 (BU),

Start 6:
• Found in 2 of 50 (4.0%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 50.0% of time when present
• Phage (with cluster) where this start called: P106A_22 (BU),

Start 7:
• Found in 48 of 50 (96.0%) of genes in pham
• Manual Annotations of this start: 37 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_22 (BU), ATCC29399BT_22 (BU), BruceLethal_22 (BU), Cota_22 (BU), DrParker_22 (BU), Enochoraptor_23 (BU), Enoki_22 (BU), Keiki_22 (BU), Kubed_22 (BU), Lauchelly_22 (BU), Leviosa_22 (BU), LilBandit_22 (BU), MEAK_22 (BU), Moyashi_22 (BU), MrAK_22 (BU), Ouroboros_22 (BU), P1.1_22 (BU), P100.1_22 (BU), P100D_22 (BU), P101A_22 (BU), P104A_22 (BU), P104B_22 (BU), P105_22 (BU), P106I_22 (BU), P106L_22 (BU), P106M_22 (BU), P107A_22 (BU), P107C_22 (BU), P108C_22

(BU), P14.4_22 (BU), P9.1_22 (BU), PHL010M04_22 (BU), PHL037M02_22 (BU), PHL060L00_22 (BU), PHL067M10_22 (BU), PHL071N05_22 (BU), PHL111M01_22 (BU), PHL112N00_22 (BU), PHL113M01_22 (BU), PHL114L00_22 (BU), Pirate_22 (BU), Procrass1_22 (BU), QueenBey_22 (BU), Rileysaurus_22 (BU), SKKY_22 (BU), Solid_22 (BU), Stormborn_22 (BU), Supernova_22 (BU),

Summary by clusters:

There is one cluster represented in this pham: BU

Info for manual annotations of cluster BU:
•Start number 4 was manually annotated 1 time for cluster BU.
•Start number 6 was manually annotated 1 time for cluster BU.
•Start number 7 was manually annotated 37 times for cluster BU.

Gene Information:

Gene: ATCC29399BC_22 Start: 17240, Stop: 16755, Start Num: 7
Candidate Starts for ATCC29399BC_22:
(Start: 7 @17240 has 37 MA's), (8, 17162), (12, 17051), (19, 16907),

Gene: ATCC29399BT_22 Start: 17240, Stop: 16755, Start Num: 7
Candidate Starts for ATCC29399BT_22:
(Start: 7 @17240 has 37 MA's), (8, 17162), (12, 17051), (19, 16907),

Gene: BruceLethal_22 Start: 17244, Stop: 16729, Start Num: 7
Candidate Starts for BruceLethal_22:
(Start: 7 @17244 has 37 MA's), (8, 17166), (9, 17157), (11, 17097), (14, 17019), (15, 16965), (20, 16869),

Gene: Cota_22 Start: 17282, Stop: 16773, Start Num: 7
Candidate Starts for Cota_22:
(Start: 7 @17282 has 37 MA's), (8, 17204), (11, 17135), (13, 17081), (14, 17057), (20, 16910),

Gene: DrParker_22 Start: 17335, Stop: 16820, Start Num: 7
Candidate Starts for DrParker_22:
(Start: 7 @17335 has 37 MA's), (8, 17257), (11, 17188), (20, 16960), (23, 16855),

Gene: Enochoraptor_23 Start: 17253, Stop: 16741, Start Num: 7
Candidate Starts for Enochoraptor_23:
(Start: 7 @17253 has 37 MA's), (8, 17175), (11, 17106), (20, 16878),

Gene: Enoki_22 Start: 17261, Stop: 16746, Start Num: 7
Candidate Starts for Enoki_22:
(Start: 7 @17261 has 37 MA's), (8, 17183), (11, 17114), (14, 17036), (20, 16883),

Gene: Keiki_22 Start: 17182, Stop: 16691, Start Num: 7
Candidate Starts for Keiki_22:
(Start: 7 @17182 has 37 MA's), (8, 17104), (9, 17095), (10, 17083), (14, 16957), (19, 16843),

Gene: Kubed_22 Start: 17240, Stop: 16752, Start Num: 7

Candidate Starts for Kubed_22:
(Start: 7 @17240 has 37 MA's), (8, 17162), (19, 16904), (21, 16850),

Gene: Lauchelly_22 Start: 17291, Stop: 16863, Start Num: 7
Candidate Starts for Lauchelly_22:
(Start: 7 @17291 has 37 MA's), (8, 17213), (9, 17204), (11, 17144), (14, 17066), (15, 17012), (20, 16916),

Gene: Leviosa_22 Start: 17295, Stop: 16783, Start Num: 7
Candidate Starts for Leviosa_22:
(Start: 7 @17295 has 37 MA's), (8, 17217), (15, 17016), (16, 17004), (20, 16920), (23, 16815),

Gene: LilBandit_22 Start: 17066, Stop: 16551, Start Num: 7
Candidate Starts for LilBandit_22:
(Start: 7 @17066 has 37 MA's), (8, 16988), (9, 16979), (11, 16919), (17, 16715), (20, 16691), (23, 16586),

Gene: MEAK_22 Start: 17232, Stop: 16714, Start Num: 7
Candidate Starts for MEAK_22:
(Start: 7 @17232 has 37 MA's), (8, 17154), (9, 17145), (11, 17085), (20, 16854),

Gene: Moyashi_22 Start: 17351, Stop: 16830, Start Num: 7
Candidate Starts for Moyashi_22:
(Start: 7 @17351 has 37 MA's), (8, 17273), (11, 17204), (14, 17126), (17, 16994), (20, 16970),

Gene: MrAK_22 Start: 17349, Stop: 16840, Start Num: 7
Candidate Starts for MrAK_22:
(Start: 7 @17349 has 37 MA's), (8, 17271), (9, 17262), (11, 17202), (17, 17001), (20, 16977),

Gene: Ouroboros_22 Start: 17256, Stop: 16741, Start Num: 7
Candidate Starts for Ouroboros_22:
(3, 17319), (Start: 7 @17256 has 37 MA's), (8, 17178), (11, 17109), (15, 16977), (20, 16881), (22, 16785), (23, 16776),

Gene: P1.1_22 Start: 17290, Stop: 16769, Start Num: 7
Candidate Starts for P1.1_22:
(Start: 7 @17290 has 37 MA's), (8, 17212), (11, 17143), (17, 16933), (23, 16804),

Gene: P100.1_22 Start: 17332, Stop: 16811, Start Num: 7
Candidate Starts for P100.1_22:
(Start: 7 @17332 has 37 MA's), (8, 17254), (11, 17185), (20, 16951), (23, 16846),

Gene: P100A_22 Start: 17310, Stop: 16765, Start Num: 4
Candidate Starts for P100A_22:
(Start: 4 @17310 has 1 MA's), (Start: 6 @17283 has 1 MA's), (8, 17202), (9, 17193), (11, 17133), (14, 17055), (15, 17001), (20, 16905),

Gene: P100D_22 Start: 17244, Stop: 16729, Start Num: 7
Candidate Starts for P100D_22:
(Start: 7 @17244 has 37 MA's), (8, 17166), (9, 17157), (11, 17097), (20, 16869), (23, 16764),

Gene: P101A_22 Start: 17300, Stop: 16779, Start Num: 7
Candidate Starts for P101A_22:

(Start: 7 @17300 has 37 MA's), (8, 17222), (11, 17153), (17, 16943), (20, 16919), (23, 16814),

Gene: P104A_22 Start: 17050, Stop: 16535, Start Num: 7
Candidate Starts for P104A_22:
(Start: 7 @17050 has 37 MA's), (8, 16972), (11, 16903), (17, 16699), (20, 16675),

Gene: P104B_22 Start: 17247, Stop: 16759, Start Num: 7
Candidate Starts for P104B_22:
(Start: 7 @17247 has 37 MA's), (8, 17169), (11, 17100), (19, 16911),

Gene: P105_22 Start: 17224, Stop: 16712, Start Num: 7
Candidate Starts for P105_22:
(Start: 7 @17224 has 37 MA's), (8, 17146), (11, 17077), (14, 16999), (20, 16852),

Gene: P106A_22 Start: 17346, Stop: 16825, Start Num: 6
Candidate Starts for P106A_22:
(Start: 6 @17346 has 1 MA's), (8, 17265), (11, 17196), (20, 16965), (23, 16860),

Gene: P106I_22 Start: 17116, Stop: 16598, Start Num: 7
Candidate Starts for P106I_22:
(Start: 7 @17116 has 37 MA's), (8, 17038), (11, 16969), (17, 16762), (20, 16738), (23, 16633),

Gene: P106L_22 Start: 17287, Stop: 16769, Start Num: 7
Candidate Starts for P106L_22:
(Start: 7 @17287 has 37 MA's), (8, 17209), (11, 17140), (17, 16933), (20, 16909), (23, 16804),

Gene: P106M_22 Start: 17287, Stop: 16769, Start Num: 7
Candidate Starts for P106M_22:
(Start: 7 @17287 has 37 MA's), (8, 17209), (11, 17140), (17, 16933), (20, 16909), (23, 16804),

Gene: P107A_22 Start: 17291, Stop: 16779, Start Num: 7
Candidate Starts for P107A_22:
(Start: 7 @17291 has 37 MA's), (8, 17213), (11, 17144), (14, 17066), (15, 17012), (20, 16916),

Gene: P107C_22 Start: 17240, Stop: 16755, Start Num: 7
Candidate Starts for P107C_22:
(Start: 7 @17240 has 37 MA's), (8, 17162), (12, 17051), (19, 16907),

Gene: P108C_22 Start: 17271, Stop: 16759, Start Num: 7
Candidate Starts for P108C_22:
(Start: 7 @17271 has 37 MA's), (8, 17193), (11, 17124), (14, 17046), (20, 16896),

Gene: P14.4_22 Start: 17247, Stop: 16732, Start Num: 7
Candidate Starts for P14.4_22:
(Start: 7 @17247 has 37 MA's), (8, 17169), (9, 17160), (11, 17100), (17, 16896), (20, 16872), (23, 16767),

Gene: P9.1_22 Start: 17287, Stop: 16766, Start Num: 7
Candidate Starts for P9.1_22:
(Start: 7 @17287 has 37 MA's), (8, 17209), (11, 17140), (20, 16906), (23, 16801),

Gene: PHL010M04_22 Start: 17263, Stop: 16748, Start Num: 7
Candidate Starts for PHL010M04_22:

(Start: 7 @17263 has 37 MA's), (8, 17185), (10, 17164), (15, 16984), (20, 16888), (21, 16849), (23, 16783),

Gene: PHL037M02_22 Start: 17234, Stop: 16722, Start Num: 7
Candidate Starts for PHL037M02_22:
(Start: 7 @17234 has 37 MA's), (8, 17156), (11, 17087), (20, 16862), (23, 16757),

Gene: PHL060L00_22 Start: 17094, Stop: 16573, Start Num: 7
Candidate Starts for PHL060L00_22:
(Start: 7 @17094 has 37 MA's), (8, 17016), (11, 16947), (20, 16713), (23, 16608),

Gene: PHL067M10_22 Start: 17229, Stop: 16741, Start Num: 7
Candidate Starts for PHL067M10_22:
(1, 17307), (2, 17295), (Start: 7 @17229 has 37 MA's), (8, 17151), (12, 17040), (19, 16893),

Gene: PHL071N05_22 Start: 17268, Stop: 16753, Start Num: 7
Candidate Starts for PHL071N05_22:
(Start: 7 @17268 has 37 MA's), (8, 17190), (11, 17121), (14, 17043), (20, 16893),

Gene: PHL111M01_22 Start: 17252, Stop: 16740, Start Num: 7
Candidate Starts for PHL111M01_22:
(Start: 7 @17252 has 37 MA's), (8, 17174), (11, 17105), (20, 16880),

Gene: PHL112N00_22 Start: 17295, Stop: 16774, Start Num: 7
Candidate Starts for PHL112N00_22:
(Start: 7 @17295 has 37 MA's), (8, 17217), (11, 17148), (17, 16938), (20, 16914), (23, 16809),

Gene: PHL113M01_22 Start: 17302, Stop: 16787, Start Num: 7
Candidate Starts for PHL113M01_22:
(5, 17323), (Start: 7 @17302 has 37 MA's), (8, 17224), (9, 17215), (11, 17155), (14, 17077), (18, 16942), (20, 16924), (23, 16819),

Gene: PHL114L00_22 Start: 17254, Stop: 16766, Start Num: 7
Candidate Starts for PHL114L00_22:
(1, 17332), (2, 17320), (Start: 7 @17254 has 37 MA's), (8, 17176), (12, 17065), (19, 16918),

Gene: Pirate_22 Start: 17167, Stop: 16676, Start Num: 7
Candidate Starts for Pirate_22:
(Start: 7 @17167 has 37 MA's), (8, 17089), (9, 17080), (10, 17068), (14, 16942), (19, 16828),

Gene: Procrass1_22 Start: 17250, Stop: 16738, Start Num: 7
Candidate Starts for Procrass1_22:
(Start: 7 @17250 has 37 MA's), (8, 17172), (9, 17163), (11, 17103), (17, 16902), (20, 16878), (23, 16773),

Gene: QueenBey_22 Start: 17241, Stop: 16819, Start Num: 7
Candidate Starts for QueenBey_22:
(1, 17319), (2, 17307), (Start: 7 @17241 has 37 MA's), (8, 17163), (12, 17052),

Gene: Rileysaurus_22 Start: 17272, Stop: 16757, Start Num: 7
Candidate Starts for Rileysaurus_22:
(Start: 7 @17272 has 37 MA's), (8, 17194), (9, 17185), (11, 17125), (14, 17047), (15, 16993), (20, 16897), (22, 16801),

Gene: SKKY_22 Start: 17319, Stop: 16807, Start Num: 7
Candidate Starts for SKKY_22:
(Start: 7 @17319 has 37 MA's), (8, 17241), (11, 17172), (20, 16947),

Gene: Solid_22 Start: 17246, Stop: 16734, Start Num: 7
Candidate Starts for Solid_22:
(Start: 7 @17246 has 37 MA's), (8, 17168), (14, 17021), (20, 16874), (22, 16778), (23, 16769),

Gene: Stormborn_22 Start: 17143, Stop: 16646, Start Num: 7
Candidate Starts for Stormborn_22:
(Start: 7 @17143 has 37 MA's), (8, 17065), (11, 16996), (14, 16918), (20, 16786),

Gene: Supernova_22 Start: 17309, Stop: 16794, Start Num: 7
Candidate Starts for Supernova_22:
(Start: 7 @17309 has 37 MA's), (8, 17231), (11, 17162), (20, 16934), (22, 16838),