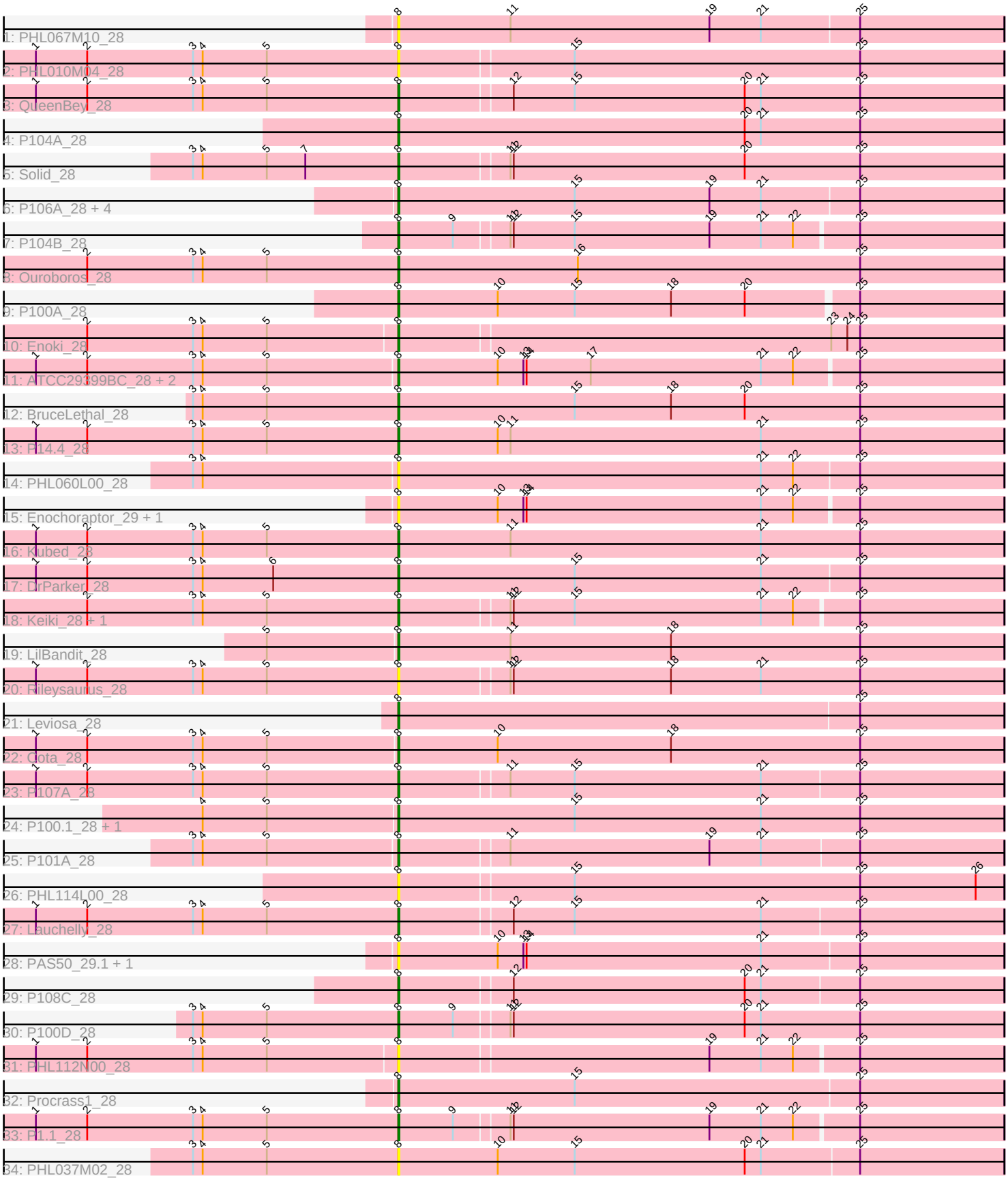
Pham 1979


1: PHL067M10_28
2: PHL010M04_28
3: QueenBey_28
4: P104A_28
5: Solid_28
6: P106A_28 + 4
7: P104B_28
8: Ouroboros_28
9: P100A_28
10: Enoki_28
11: ATCC29399BC_28 + 2
12: BruceLethal_28
13: P14.4_28
14: PHL060L00_28
15: Enochoraptor_29 + 1
16: Kubed_28
17: DrParker_28
18: Keiki_28 + 1
19: LilBandit_28
20: Rileysaurus_28
21: Leviosa_28
22: Gota_28
23: P107A_28
24: P100.1_28 + 1
25: P101A_28
26: PHL114L00_28
27: Lauchelly_28
28: PAS50_29.1 + 1
29: P108C_28
30: P100D_28
31: PHL112N00_28
32: Procrass1_28
33: P1.1_28
34: PHL037M02_28

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 1979 Report

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

Pham number 1979 has 44 members, 11 are drafts.

Phages represented in each track:
- Track 1 : PHL067M10_28
- Track 2 : PHL010M04_28
- Track 3 : QueenBey_28
- Track 4 : P104A_28
- Track 5 : Solid_28
- Track 6 : P106A_28, P106I_28, P106C_29, P106L_28, P106M_28
- Track 7 : P104B_28
- Track 8 : Ouroboros_28
- Track 9 : P100A_28
- Track 10 : Enoki_28
- Track 11 : ATCC29399BC_28, ATCC29399BT_28, P107C_28
- Track 12 : BruceLethal_28
- Track 13 : P14.4_28
- Track 14 : PHL060L00_28
- Track 15 : Enochoraptor_29, PHL071N05_28
- Track 16 : Kubed_28
- Track 17 : DrParker_28
- Track 18 : Keiki_28, Pirate_28
- Track 19 : LilBandit_28
- Track 20 : Rileysaurus_28
- Track 21 : Leviosa_28
- Track 22 : Cota_28
- Track 23 : P107A_28
- Track 24 : P100.1_28, P9.1_28
- Track 25 : P101A_28
- Track 26 : PHL114L00_28
- Track 27 : Lauchelly_28
- Track 28 : PAS50_29.1, PAD20_29.1
- Track 29 : P108C_28
- Track 30 : P100D_28
- Track 31 : PHL112N00_28
- Track 32 : Procrass1_28
- Track 33 : P1.1_28
- Track 34 : PHL037M02_28

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

The start number called the most often in the published annotations is 8, it was called in 33 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_28, ATCC29399BT_28, BruceLethal_28, Cota_28, DrParker_28, Enochoraptor_29, Enoki_28, Keiki_28, Kubed_28, Lauchelly_28, Leviosa_28, LilBandit_28, Ouroboros_28, P1.1_28, P100.1_28, P100A_28, P100D_28, P101A_28, P104A_28, P104B_28, P106A_28, P106C_29, P106I_28, P106L_28, P106M_28, P107A_28, P107C_28, P108C_28, P14.4_28, P9.1_28, PAD20_29.1, PAS50_29.1, PHL010M04_28, PHL037M02_28, PHL060L00_28, PHL067M10_28, PHL071N05_28, PHL112N00_28, PHL114L00_28, Pirate_28, Procrass1_28, QueenBey_28, Rileysaurus_28, Solid_28,

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

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

Summary by start number:

Start 8:
• Found in 44 of 44 (100.0%) of genes in pham
• Manual Annotations of this start: 33 of 33
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_28 (BU), ATCC29399BT_28 (BU), BruceLethal_28 (BU), Cota_28 (BU), DrParker_28 (BU), Enochoraptor_29 (BU), Enoki_28 (BU), Keiki_28 (BU), Kubed_28 (BU), Lauchelly_28 (BU), Leviosa_28 (BU), LilBandit_28 (BU), Ouroboros_28 (BU), P1.1_28 (BU), P100.1_28 (BU), P100A_28 (BU), P100D_28 (BU), P101A_28 (BU), P104A_28 (BU), P104B_28 (BU), P106A_28 (BU), P106C_29 (BU), P106I_28 (BU), P106L_28 (BU), P106M_28 (BU), P107A_28 (BU), P107C_28 (BU), P108C_28 (BU), P14.4_28 (BU), P9.1_28 (BU), PAD20_29.1 (BU), PAS50_29.1 (BU), PHL010M04_28 (BU), PHL037M02_28 (BU), PHL060L00_28 (BU), PHL067M10_28 (BU), PHL071N05_28 (BU), PHL112N00_28 (BU), PHL114L00_28 (BU), Pirate_28 (BU), Procrass1_28 (BU), QueenBey_28 (BU), Rileysaurus_28 (BU), Solid_28 (BU),

Summary by clusters:

There is one cluster represented in this pham: BU

Info for manual annotations of cluster BU:
•Start number 8 was manually annotated 33 times for cluster BU.

Gene Information:

Gene: ATCC29399BC_28 Start: 20049, Stop: 19489, Start Num: 8
Candidate Starts for ATCC29399BC_28:

(1, 20385), (2, 20337), (3, 20238), (4, 20229), (5, 20169), (Start: 8 @20049 has 33 MA's), (10, 19956), (13, 19932), (14, 19929), (17, 19869), (21, 19710), (22, 19680), (25, 19623),

Gene: ATCC29399BT_28 Start: 20049, Stop: 19489, Start Num: 8
Candidate Starts for ATCC29399BT_28:
(1, 20385), (2, 20337), (3, 20238), (4, 20229), (5, 20169), (Start: 8 @20049 has 33 MA's), (10, 19956), (13, 19932), (14, 19929), (17, 19869), (21, 19710), (22, 19680), (25, 19623),

Gene: BruceLethal_28 Start: 20054, Stop: 19488, Start Num: 8
Candidate Starts for BruceLethal_28:
(3, 20246), (4, 20237), (5, 20177), (Start: 8 @20054 has 33 MA's), (15, 19889), (18, 19799), (20, 19730), (25, 19622),

Gene: Cota_28 Start: 20098, Stop: 19532, Start Num: 8
Candidate Starts for Cota_28:
(1, 20434), (2, 20386), (3, 20287), (4, 20278), (5, 20218), (Start: 8 @20098 has 33 MA's), (10, 20005), (18, 19843), (25, 19666),

Gene: DrParker_28 Start: 20148, Stop: 19585, Start Num: 8
Candidate Starts for DrParker_28:
(1, 20487), (2, 20439), (3, 20340), (4, 20331), (6, 20265), (Start: 8 @20148 has 33 MA's), (15, 19983), (21, 19809), (25, 19719),

Gene: Enochoraptor_29 Start: 20071, Stop: 19511, Start Num: 8
Candidate Starts for Enochoraptor_29:
(Start: 8 @20071 has 33 MA's), (10, 19978), (13, 19954), (14, 19951), (21, 19732), (22, 19702), (25, 19645),

Gene: Enoki_28 Start: 20082, Stop: 19522, Start Num: 8
Candidate Starts for Enoki_28:
(2, 20370), (3, 20271), (4, 20262), (5, 20202), (Start: 8 @20082 has 33 MA's), (23, 19683), (24, 19668), (25, 19656),

Gene: Keiki_28 Start: 19994, Stop: 19440, Start Num: 8
Candidate Starts for Keiki_28:
(2, 20285), (3, 20186), (4, 20177), (5, 20117), (Start: 8 @19994 has 33 MA's), (11, 19895), (12, 19892), (15, 19835), (21, 19661), (22, 19631), (25, 19574),

Gene: Kubed_28 Start: 20049, Stop: 19483, Start Num: 8
Candidate Starts for Kubed_28:
(1, 20388), (2, 20340), (3, 20241), (4, 20232), (5, 20172), (Start: 8 @20049 has 33 MA's), (11, 19944), (21, 19710), (25, 19617),

Gene: Lauchelly_28 Start: 20098, Stop: 19541, Start Num: 8
Candidate Starts for Lauchelly_28:
(1, 20437), (2, 20389), (3, 20290), (4, 20281), (5, 20221), (Start: 8 @20098 has 33 MA's), (12, 19996), (15, 19939), (21, 19765), (25, 19675),

Gene: Leviosa_28 Start: 20095, Stop: 19532, Start Num: 8
Candidate Starts for Leviosa_28:
(Start: 8 @20095 has 33 MA's), (25, 19666),

Gene: LilBandit_28 Start: 19892, Stop: 19326, Start Num: 8

Candidate Starts for LilBandit_28:
(5, 20012), (Start: 8 @19892 has 33 MA's), (11, 19787), (18, 19637), (25, 19460),

Gene: Ouroboros_28 Start: 20075, Stop: 19509, Start Num: 8
Candidate Starts for Ouroboros_28:
(2, 20366), (3, 20267), (4, 20258), (5, 20198), (Start: 8 @20075 has 33 MA's), (16, 19907), (25, 19643),

Gene: P1.1_28 Start: 20086, Stop: 19532, Start Num: 8
Candidate Starts for P1.1_28:
(1, 20425), (2, 20377), (3, 20278), (4, 20269), (5, 20209), (Start: 8 @20086 has 33 MA's), (9, 20035), (11, 19987), (12, 19984), (19, 19801), (21, 19753), (22, 19723), (25, 19666),

Gene: P100.1_28 Start: 20139, Stop: 19573, Start Num: 8
Candidate Starts for P100.1_28:
(4, 20319), (5, 20259), (Start: 8 @20139 has 33 MA's), (15, 19974), (21, 19800), (25, 19707),

Gene: P100A_28 Start: 20081, Stop: 19524, Start Num: 8
Candidate Starts for P100A_28:
(Start: 8 @20081 has 33 MA's), (10, 19988), (15, 19916), (18, 19826), (20, 19757), (25, 19658),

Gene: P100D_28 Start: 20065, Stop: 19505, Start Num: 8
Candidate Starts for P100D_28:
(3, 20257), (4, 20248), (5, 20188), (Start: 8 @20065 has 33 MA's), (9, 20014), (11, 19966), (12, 19963), (20, 19747), (21, 19732), (25, 19639),

Gene: P101A_28 Start: 20103, Stop: 19546, Start Num: 8
Candidate Starts for P101A_28:
(3, 20292), (4, 20283), (5, 20223), (Start: 8 @20103 has 33 MA's), (11, 20004), (19, 19818), (21, 19770), (25, 19680),

Gene: P104A_28 Start: 19869, Stop: 19303, Start Num: 8
Candidate Starts for P104A_28:
(Start: 8 @19869 has 33 MA's), (20, 19545), (21, 19530), (25, 19437),

Gene: P104B_28 Start: 20056, Stop: 19502, Start Num: 8
Candidate Starts for P104B_28:
(Start: 8 @20056 has 33 MA's), (9, 20005), (11, 19957), (12, 19954), (15, 19897), (19, 19771), (21, 19723), (22, 19693), (25, 19636),

Gene: P106A_28 Start: 20158, Stop: 19595, Start Num: 8
Candidate Starts for P106A_28:
(Start: 8 @20158 has 33 MA's), (15, 19993), (19, 19867), (21, 19819), (25, 19729),

Gene: P106C_29 Start: 20096, Stop: 19533, Start Num: 8
Candidate Starts for P106C_29:
(Start: 8 @20096 has 33 MA's), (15, 19931), (19, 19805), (21, 19757), (25, 19667),

Gene: P106I_28 Start: 19925, Stop: 19362, Start Num: 8
Candidate Starts for P106I_28:
(Start: 8 @19925 has 33 MA's), (15, 19760), (19, 19634), (21, 19586), (25, 19496),

Gene: P106L_28 Start: 20096, Stop: 19533, Start Num: 8

Candidate Starts for P106L_28:
(Start: 8 @20096 has 33 MA's), (15, 19931), (19, 19805), (21, 19757), (25, 19667),

Gene: P106M_28 Start: 20096, Stop: 19533, Start Num: 8
Candidate Starts for P106M_28:
(Start: 8 @20096 has 33 MA's), (15, 19931), (19, 19805), (21, 19757), (25, 19667),

Gene: P107A_28 Start: 20109, Stop: 19552, Start Num: 8
Candidate Starts for P107A_28:
(1, 20448), (2, 20400), (3, 20301), (4, 20292), (5, 20232), (Start: 8 @20109 has 33 MA's), (11, 20010), (15, 19950), (21, 19776), (25, 19686),

Gene: P107C_28 Start: 20049, Stop: 19489, Start Num: 8
Candidate Starts for P107C_28:
(1, 20385), (2, 20337), (3, 20238), (4, 20229), (5, 20169), (Start: 8 @20049 has 33 MA's), (10, 19956), (13, 19932), (14, 19929), (17, 19869), (21, 19710), (22, 19680), (25, 19623),

Gene: P108C_28 Start: 20060, Stop: 19503, Start Num: 8
Candidate Starts for P108C_28:
(Start: 8 @20060 has 33 MA's), (12, 19958), (20, 19742), (21, 19727), (25, 19637),

Gene: P14.4_28 Start: 20062, Stop: 19496, Start Num: 8
Candidate Starts for P14.4_28:
(1, 20401), (2, 20353), (3, 20254), (4, 20245), (5, 20185), (Start: 8 @20062 has 33 MA's), (10, 19969), (11, 19957), (21, 19723), (25, 19630),

Gene: P9.1_28 Start: 20098, Stop: 19535, Start Num: 8
Candidate Starts for P9.1_28:
(4, 20278), (5, 20218), (Start: 8 @20098 has 33 MA's), (15, 19933), (21, 19759), (25, 19669),

Gene: PAD20_29.1 Start: 19836, Stop: 19273, Start Num: 8
Candidate Starts for PAD20_29.1:
(Start: 8 @19836 has 33 MA's), (10, 19743), (13, 19719), (14, 19716), (21, 19497), (25, 19407),

Gene: PAS50_29.1 Start: 20004, Stop: 19441, Start Num: 8
Candidate Starts for PAS50_29.1:
(Start: 8 @20004 has 33 MA's), (10, 19911), (13, 19887), (14, 19884), (21, 19665), (25, 19575),

Gene: PHL010M04_28 Start: 20073, Stop: 19513, Start Num: 8
Candidate Starts for PHL010M04_28:
(1, 20412), (2, 20364), (3, 20265), (4, 20256), (5, 20196), (Start: 8 @20073 has 33 MA's), (15, 19914), (25, 19647),

Gene: PHL037M02_28 Start: 20057, Stop: 19494, Start Num: 8
Candidate Starts for PHL037M02_28:
(3, 20249), (4, 20240), (5, 20180), (Start: 8 @20057 has 33 MA's), (10, 19964), (15, 19892), (20, 19733), (21, 19718), (25, 19628),

Gene: PHL060L00_28 Start: 19906, Stop: 19343, Start Num: 8
Candidate Starts for PHL060L00_28:
(3, 20095), (4, 20086), (Start: 8 @19906 has 33 MA's), (21, 19567), (22, 19537), (25, 19477),

Gene: PHL067M10_28 Start: 20027, Stop: 19464, Start Num: 8

Candidate Starts for PHL067M10_28:
(Start: 8 @20027 has 33 MA's), (11, 19922), (19, 19736), (21, 19688), (25, 19598),

Gene: PHL071N05_28 Start: 20086, Stop: 19526, Start Num: 8
Candidate Starts for PHL071N05_28:
(Start: 8 @20086 has 33 MA's), (10, 19993), (13, 19969), (14, 19966), (21, 19747), (22, 19717), (25, 19660),

Gene: PHL112N00_28 Start: 20093, Stop: 19539, Start Num: 8
Candidate Starts for PHL112N00_28:
(1, 20429), (2, 20381), (3, 20282), (4, 20273), (5, 20213), (Start: 8 @20093 has 33 MA's), (19, 19808), (21, 19760), (22, 19730), (25, 19673),

Gene: PHL114L00_28 Start: 20046, Stop: 19486, Start Num: 8
Candidate Starts for PHL114L00_28:
(Start: 8 @20046 has 33 MA's), (15, 19887), (25, 19620), (26, 19512),

Gene: Pirate_28 Start: 19979, Stop: 19425, Start Num: 8
Candidate Starts for Pirate_28:
(2, 20270), (3, 20171), (4, 20162), (5, 20102), (Start: 8 @19979 has 33 MA's), (11, 19880), (12, 19877), (15, 19820), (21, 19646), (22, 19616), (25, 19559),

Gene: Procrass1_28 Start: 20055, Stop: 19492, Start Num: 8
Candidate Starts for Procrass1_28:
(Start: 8 @20055 has 33 MA's), (15, 19890), (25, 19626),

Gene: QueenBey_28 Start: 20036, Stop: 19476, Start Num: 8
Candidate Starts for QueenBey_28:
(1, 20375), (2, 20327), (3, 20228), (4, 20219), (5, 20159), (Start: 8 @20036 has 33 MA's), (12, 19934), (15, 19877), (20, 19718), (21, 19703), (25, 19610),

Gene: Rileysaurus_28 Start: 20083, Stop: 19523, Start Num: 8
Candidate Starts for Rileysaurus_28:
(1, 20422), (2, 20374), (3, 20275), (4, 20266), (5, 20206), (Start: 8 @20083 has 33 MA's), (11, 19984), (12, 19981), (18, 19834), (21, 19750), (25, 19657),

Gene: Solid_28 Start: 20065, Stop: 19505, Start Num: 8
Candidate Starts for Solid_28:
(3, 20257), (4, 20248), (5, 20188), (7, 20152), (Start: 8 @20065 has 33 MA's), (11, 19966), (12, 19963), (20, 19747), (25, 19639),