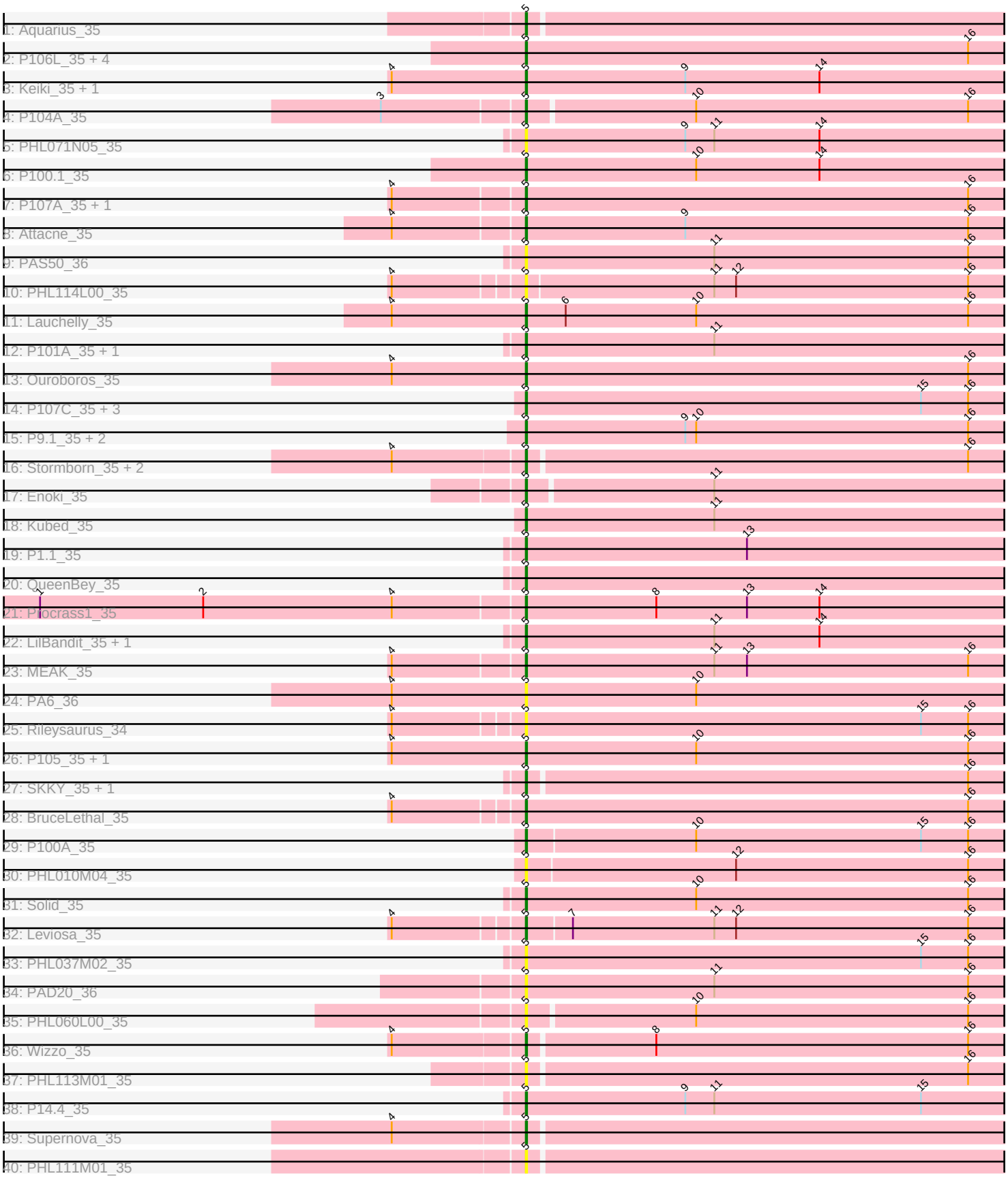
Pham 1577


1: Aquarius_35
2: P106L_35 + 4
3: Keiki_35 + 1
4: P104A_35
5: PHL071N05_35
6: P100.1_35
7: P107A_35 + 1
8: Attacne_35
9: PAS50_36
10: PHL114L00_35
11: Lauchelly_35
12: P101A_35 + 1
13: Ouroboros_35
14: P107C_35 + 3
15: P9.1_35 + 2
16: Stormborn_35 + 2
17: Enoki_35
18: Kubed_35
19: P1.1_35
20: QueenBey_35
21: Plocrass1_35
22: LilBandit_35 + 1
23: MEAK_35
24: PA6_36
25: Rileysaurus_34
26: P105_35 + 1
27: SKKY_35 + 1
28: BruceLethal_35
29: P100A_35
30: PHL010M04_35
31: Solid_35
32: Leviosa_35
33: PHL037M02_35
34: PAD20_36
35: PHL060L00_35
36: Wizzo_35
37: PHL113M01_35
38: P14.4_35
39: Supernova_35
40: PHL111M01_35

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 1577 Report

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

Pham number 1577 has 57 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Aquarius_35
• Track 2 : P106L_35, P106M_35, P106C_36, P106I_35, P106A_35
• Track 3 : Keiki_35, Pirate_35
• Track 4 : P104A_35
• Track 5 : PHL071N05_35
• Track 6 : P100.1_35
• Track 7 : P107A_35, Moyashi_35
• Track 8 : Attacne_35
• Track 9 : PAS50_36
• Track 10 : PHL114L00_35
• Track 11 : Lauchelly_35
• Track 12 : P101A_35, P100D_35
• Track 13 : Ouroboros_35
• Track 14 : P107C_35, ATCC29399BT_35, ATCC29399BC_35, PHL112N00_35
• Track 15 : P9.1_35, P108C_35, DrParker_35
• Track 16 : Stormborn_35, Cota_35, MrAK_35
• Track 17 : Enoki_35
• Track 18 : Kubed_35
• Track 19 : P1.1_35
• Track 20 : QueenBey_35
• Track 21 : Procrass1_35
• Track 22 : LilBandit_35, Enochoraptor_35
• Track 23 : MEAK_35
• Track 24 : PA6_36
• Track 25 : Rileysaurus_34
• Track 26 : P105_35, PHL067M10_35
• Track 27 : SKKY_35, P104B_35
• Track 28 : BruceLethal_35
• Track 29 : P100A_35
• Track 30 : PHL010M04_35
• Track 31 : Solid_35
• Track 32 : Leviosa_35
• Track 33 : PHL037M02_35
• Track 34 : PAD20_36
• Track 35 : PHL060L00_35
• Track 36 : Wizzo_35
• Track 37 : PHL113M01_35

• Track 38 : P14.4_35
• Track 39 : Supernova_35
• Track 40 : PHL111M01_35

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

The start number called the most often in the published annotations is 5, it was called in 43 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ATCC29399BC_35, ATCC29399BT_35, Aquarius_35, Attacne_35, BruceLethal_35, Cota_35, DrParker_35, Enochoraptor_35, Enoki_35, Keiki_35, Kubed_35, Lauchelly_35, Leviosa_35, LilBandit_35, MEAK_35, Moyashi_35, MrAK_35, Ouroboros_35, P1.1_35, P100.1_35, P100A_35, P100D_35, P101A_35, P104A_35, P104B_35, P105_35, P106A_35, P106C_36, P106I_35, P106L_35, P106M_35, P107A_35, P107C_35, P108C_35, P14.4_35, P9.1_35, PA6_36, PAD20_36, PAS50_36, PHL010M04_35, PHL037M02_35, PHL060L00_35, PHL067M10_35, PHL071N05_35, PHL111M01_35, PHL112N00_35, PHL113M01_35, PHL114L00_35, Pirate_35, Procrass1_35, QueenBey_35, Rileysaurus_34, SKKY_35, Solid_35, Stormborn_35, Supernova_35, Wizzo_35,

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 5:
• Found in 57 of 57 (100.0%) of genes in pham
• Manual Annotations of this start: 43 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ATCC29399BC_35 (BU), ATCC29399BT_35 (BU), Aquarius_35 (BU), Attacne_35 (BU), BruceLethal_35 (BU), Cota_35 (BU), DrParker_35 (BU), Enochoraptor_35 (BU), Enoki_35 (BU), Keiki_35 (BU), Kubed_35 (BU), Lauchelly_35 (BU), Leviosa_35 (BU), LilBandit_35 (BU), MEAK_35 (BU), Moyashi_35 (BU), MrAK_35 (BU), Ouroboros_35 (BU), P1.1_35 (BU), P100.1_35 (BU), P100A_35 (BU), P100D_35 (BU), P101A_35 (BU), P104A_35 (BU), P104B_35 (BU), P105_35 (BU), P106A_35 (BU), P106C_36 (BU), P106I_35 (BU), P106L_35 (BU), P106M_35 (BU), P107A_35 (BU), P107C_35 (BU), P108C_35 (BU), P14.4_35 (BU), P9.1_35 (BU), PA6_36 (BU), PAD20_36 (BU), PAS50_36 (BU), PHL010M04_35 (BU), PHL037M02_35 (BU), PHL060L00_35 (BU), PHL067M10_35 (BU), PHL071N05_35 (BU), PHL111M01_35 (BU), PHL112N00_35 (BU), PHL113M01_35 (BU), PHL114L00_35 (BU), Pirate_35 (BU), Procrass1_35 (BU), QueenBey_35 (BU), Rileysaurus_34 (BU), SKKY_35 (BU), Solid_35 (BU), Stormborn_35 (BU), Supernova_35 (BU), Wizzo_35 (BU),

Summary by clusters:

There is one cluster represented in this pham: BU

Info for manual annotations of cluster BU:
•Start number 5 was manually annotated 43 times for cluster BU.

Gene Information:

Gene: ATCC29399BC_35 Start: 23696, Stop: 23286, Start Num: 5
Candidate Starts for ATCC29399BC_35:
(Start: 5 @23696 has 43 MA's), (15, 23369), (16, 23330),

Gene: ATCC29399BT_35 Start: 23696, Stop: 23286, Start Num: 5
Candidate Starts for ATCC29399BT_35:
(Start: 5 @23696 has 43 MA's), (15, 23369), (16, 23330),

Gene: Aquarius_35 Start: 23157, Stop: 22753, Start Num: 5
Candidate Starts for Aquarius_35:
(Start: 5 @23157 has 43 MA's),

Gene: Attacne_35 Start: 23190, Stop: 22780, Start Num: 5
Candidate Starts for Attacne_35:
(4, 23295), (Start: 5 @23190 has 43 MA's), (9, 23058), (16, 22824),

Gene: BruceLethal_35 Start: 23724, Stop: 23314, Start Num: 5
Candidate Starts for BruceLethal_35:
(4, 23826), (Start: 5 @23724 has 43 MA's), (16, 23358),

Gene: Cota_35 Start: 23748, Stop: 23344, Start Num: 5
Candidate Starts for Cota_35:
(4, 23853), (Start: 5 @23748 has 43 MA's), (16, 23388),

Gene: DrParker_35 Start: 23785, Stop: 23375, Start Num: 5
Candidate Starts for DrParker_35:
(Start: 5 @23785 has 43 MA's), (9, 23653), (10, 23644), (16, 23419),

Gene: Enochoraptor_35 Start: 23729, Stop: 23319, Start Num: 5
Candidate Starts for Enochoraptor_35:
(Start: 5 @23729 has 43 MA's), (11, 23573), (14, 23486),

Gene: Enoki_35 Start: 23735, Stop: 23331, Start Num: 5
Candidate Starts for Enoki_35:
(Start: 5 @23735 has 43 MA's), (11, 23585),

Gene: Keiki_35 Start: 23663, Stop: 23253, Start Num: 5
Candidate Starts for Keiki_35:
(4, 23774), (Start: 5 @23663 has 43 MA's), (9, 23531), (14, 23420),

Gene: Kubed_35 Start: 23724, Stop: 23314, Start Num: 5
Candidate Starts for Kubed_35:
(Start: 5 @23724 has 43 MA's), (11, 23568),

Gene: Lauchelly_35 Start: 23759, Stop: 23349, Start Num: 5
Candidate Starts for Lauchelly_35:
(4, 23870), (Start: 5 @23759 has 43 MA's), (6, 23726), (10, 23618), (16, 23393),

Gene: Leviosa_35 Start: 23745, Stop: 23338, Start Num: 5
Candidate Starts for Leviosa_35:
(4, 23847), (Start: 5 @23745 has 43 MA's), (7, 23709), (11, 23592), (12, 23574), (16, 23382),

Gene: LilBandit_35 Start: 23549, Stop: 23139, Start Num: 5
Candidate Starts for LilBandit_35:
(Start: 5 @23549 has 43 MA's), (11, 23393), (14, 23306),

Gene: MEAK_35 Start: 23414, Stop: 23004, Start Num: 5
Candidate Starts for MEAK_35:
(4, 23519), (Start: 5 @23414 has 43 MA's), (11, 23258), (13, 23231), (16, 23048),

Gene: Moyashi_35 Start: 23522, Stop: 23118, Start Num: 5
Candidate Starts for Moyashi_35:
(4, 23627), (Start: 5 @23522 has 43 MA's), (16, 23162),

Gene: MrAK_35 Start: 23535, Stop: 23131, Start Num: 5
Candidate Starts for MrAK_35:
(4, 23640), (Start: 5 @23535 has 43 MA's), (16, 23175),

Gene: Ouroboros_35 Start: 23734, Stop: 23324, Start Num: 5
Candidate Starts for Ouroboros_35:
(4, 23845), (Start: 5 @23734 has 43 MA's), (16, 23368),

Gene: P1.1_35 Start: 23762, Stop: 23352, Start Num: 5
Candidate Starts for P1.1_35:
(Start: 5 @23762 has 43 MA's), (13, 23579),

Gene: P100.1_35 Start: 23806, Stop: 23396, Start Num: 5
Candidate Starts for P100.1_35:
(Start: 5 @23806 has 43 MA's), (10, 23665), (14, 23563),

Gene: P100A_35 Start: 23747, Stop: 23340, Start Num: 5
Candidate Starts for P100A_35:
(Start: 5 @23747 has 43 MA's), (10, 23609), (15, 23423), (16, 23384),

Gene: P100D_35 Start: 23723, Stop: 23313, Start Num: 5
Candidate Starts for P100D_35:
(Start: 5 @23723 has 43 MA's), (11, 23567),

Gene: P101A_35 Start: 23755, Stop: 23345, Start Num: 5
Candidate Starts for P101A_35:
(Start: 5 @23755 has 43 MA's), (11, 23599),

Gene: P104A_35 Start: 23523, Stop: 23119, Start Num: 5
Candidate Starts for P104A_35:
(3, 23637), (Start: 5 @23523 has 43 MA's), (10, 23388), (16, 23163),

Gene: P104B_35 Start: 23724, Stop: 23314, Start Num: 5

Candidate Starts for P104B_35:
(Start: 5 @23724 has 43 MA's), (16, 23358),

Gene: P105_35 Start: 23399, Stop: 22989, Start Num: 5
Candidate Starts for P105_35:
(4, 23510), (Start: 5 @23399 has 43 MA's), (10, 23258), (16, 23033),

Gene: P106A_35 Start: 23823, Stop: 23413, Start Num: 5
Candidate Starts for P106A_35:
(Start: 5 @23823 has 43 MA's), (16, 23457),

Gene: P106C_36 Start: 23739, Stop: 23329, Start Num: 5
Candidate Starts for P106C_36:
(Start: 5 @23739 has 43 MA's), (16, 23373),

Gene: P106I_35 Start: 23568, Stop: 23158, Start Num: 5
Candidate Starts for P106I_35:
(Start: 5 @23568 has 43 MA's), (16, 23202),

Gene: P106L_35 Start: 23739, Stop: 23329, Start Num: 5
Candidate Starts for P106L_35:
(Start: 5 @23739 has 43 MA's), (16, 23373),

Gene: P106M_35 Start: 23739, Stop: 23329, Start Num: 5
Candidate Starts for P106M_35:
(Start: 5 @23739 has 43 MA's), (16, 23373),

Gene: P107A_35 Start: 23769, Stop: 23359, Start Num: 5
Candidate Starts for P107A_35:
(4, 23874), (Start: 5 @23769 has 43 MA's), (16, 23403),

Gene: P107C_35 Start: 23696, Stop: 23286, Start Num: 5
Candidate Starts for P107C_35:
(Start: 5 @23696 has 43 MA's), (15, 23369), (16, 23330),

Gene: P108C_35 Start: 23720, Stop: 23310, Start Num: 5
Candidate Starts for P108C_35:
(Start: 5 @23720 has 43 MA's), (9, 23588), (10, 23579), (16, 23354),

Gene: P14.4_35 Start: 23732, Stop: 23322, Start Num: 5
Candidate Starts for P14.4_35:
(Start: 5 @23732 has 43 MA's), (9, 23600), (11, 23576), (15, 23405),

Gene: P9.1_35 Start: 23757, Stop: 23347, Start Num: 5
Candidate Starts for P9.1_35:
(Start: 5 @23757 has 43 MA's), (9, 23625), (10, 23616), (16, 23391),

Gene: PA6_36 Start: 23722, Stop: 23312, Start Num: 5
Candidate Starts for PA6_36:
(4, 23833), (Start: 5 @23722 has 43 MA's), (10, 23581),

Gene: PAD20_36 Start: 23488, Stop: 23078, Start Num: 5
Candidate Starts for PAD20_36:

(Start: 5 @23488 has 43 MA's), (11, 23332), (16, 23122),

Gene: PAS50_36 Start: 23652, Stop: 23242, Start Num: 5
Candidate Starts for PAS50_36:
(Start: 5 @23652 has 43 MA's), (11, 23496), (16, 23286),

Gene: PHL010M04_35 Start: 23731, Stop: 23324, Start Num: 5
Candidate Starts for PHL010M04_35:
(Start: 5 @23731 has 43 MA's), (12, 23560), (16, 23368),

Gene: PHL037M02_35 Start: 23722, Stop: 23312, Start Num: 5
Candidate Starts for PHL037M02_35:
(Start: 5 @23722 has 43 MA's), (15, 23395), (16, 23356),

Gene: PHL060L00_35 Start: 23574, Stop: 23170, Start Num: 5
Candidate Starts for PHL060L00_35:
(Start: 5 @23574 has 43 MA's), (10, 23439), (16, 23214),

Gene: PHL067M10_35 Start: 23686, Stop: 23276, Start Num: 5
Candidate Starts for PHL067M10_35:
(4, 23797), (Start: 5 @23686 has 43 MA's), (10, 23545), (16, 23320),

Gene: PHL071N05_35 Start: 23752, Stop: 23342, Start Num: 5
Candidate Starts for PHL071N05_35:
(Start: 5 @23752 has 43 MA's), (9, 23620), (11, 23596), (14, 23509),

Gene: PHL111M01_35 Start: 23452, Stop: 23048, Start Num: 5
Candidate Starts for PHL111M01_35:
(Start: 5 @23452 has 43 MA's),

Gene: PHL112N00_35 Start: 23751, Stop: 23341, Start Num: 5
Candidate Starts for PHL112N00_35:
(Start: 5 @23751 has 43 MA's), (15, 23424), (16, 23385),

Gene: PHL113M01_35 Start: 23499, Stop: 23095, Start Num: 5
Candidate Starts for PHL113M01_35:
(Start: 5 @23499 has 43 MA's), (16, 23139),

Gene: PHL114L00_35 Start: 23691, Stop: 23284, Start Num: 5
Candidate Starts for PHL114L00_35:
(4, 23793), (Start: 5 @23691 has 43 MA's), (11, 23538), (12, 23520), (16, 23328),

Gene: Pirate_35 Start: 23648, Stop: 23238, Start Num: 5
Candidate Starts for Pirate_35:
(4, 23759), (Start: 5 @23648 has 43 MA's), (9, 23516), (14, 23405),

Gene: Procrass1_35 Start: 23718, Stop: 23308, Start Num: 5
Candidate Starts for Procrass1_35:
(1, 24114), (2, 23979), (4, 23823), (Start: 5 @23718 has 43 MA's), (8, 23610), (13, 23535), (14, 23475),

Gene: QueenBey_35 Start: 23700, Stop: 23290, Start Num: 5
Candidate Starts for QueenBey_35:

(Start: 5 @23700 has 43 MA's),

Gene: Rileysaurus_34 Start: 23753, Stop: 23343, Start Num: 5
Candidate Starts for Rileysaurus_34:
(4, 23855), (Start: 5 @23753 has 43 MA's), (15, 23426), (16, 23387),

Gene: SKKY_35 Start: 23480, Stop: 23076, Start Num: 5
Candidate Starts for SKKY_35:
(Start: 5 @23480 has 43 MA's), (16, 23120),

Gene: Solid_35 Start: 23723, Stop: 23313, Start Num: 5
Candidate Starts for Solid_35:
(Start: 5 @23723 has 43 MA's), (10, 23582), (16, 23357),

Gene: Stormborn_35 Start: 23342, Stop: 22938, Start Num: 5
Candidate Starts for Stormborn_35:
(4, 23447), (Start: 5 @23342 has 43 MA's), (16, 22982),

Gene: Supernova_35 Start: 23481, Stop: 23077, Start Num: 5
Candidate Starts for Supernova_35:
(4, 23586), (Start: 5 @23481 has 43 MA's),

Gene: Wizzo_35 Start: 23208, Stop: 22804, Start Num: 5
Candidate Starts for Wizzo_35:
(4, 23313), (Start: 5 @23208 has 43 MA's), (8, 23106), (16, 22848),