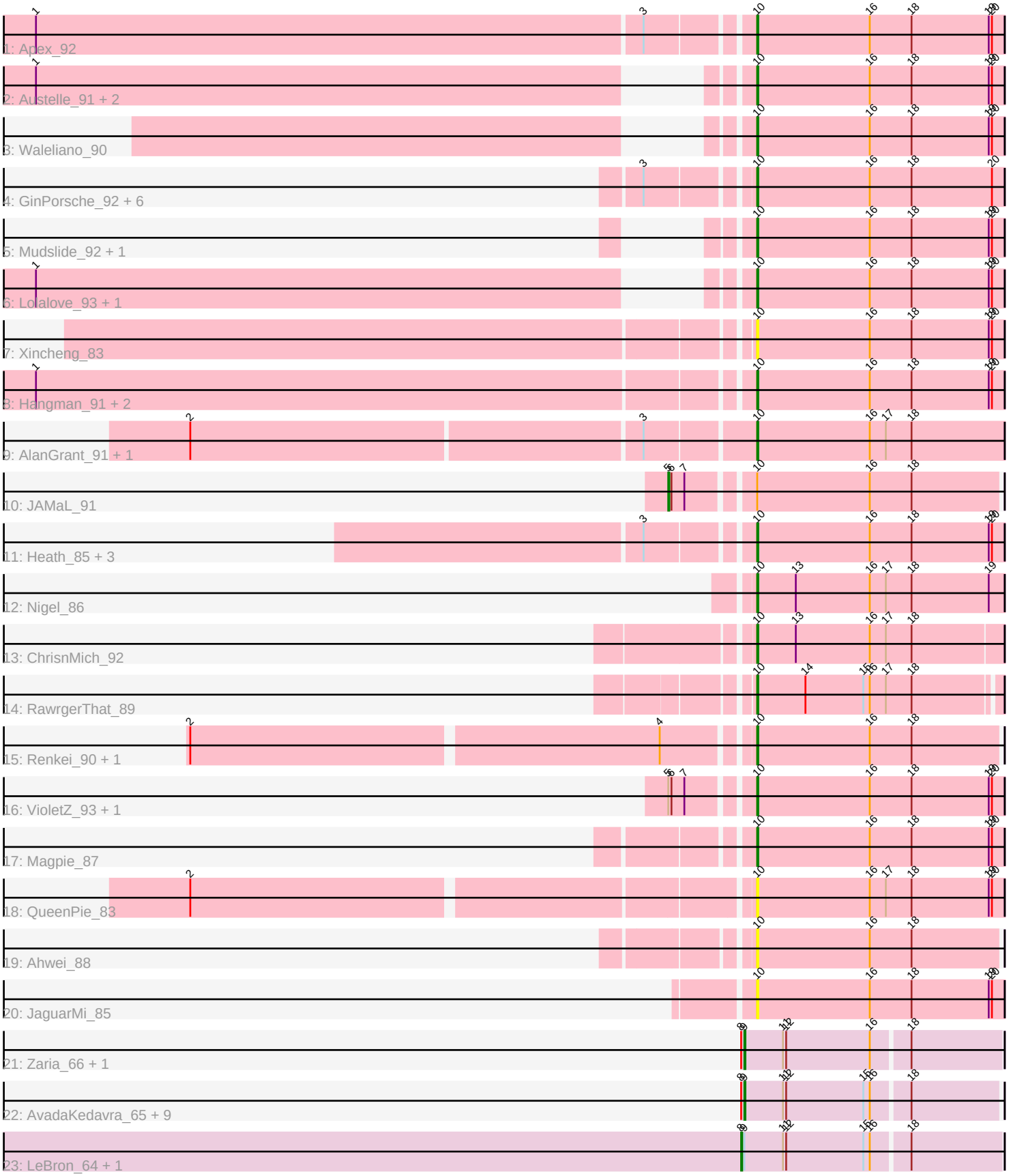
Pham 347697


1: Apex_92
2: Austelle_91 + 2
3: Waleliano_90
4: GinPorsche_92 + 6
5: Mudslide_92 + 1
6: Lolalove_93 + 1
7: Xincheng_83
8: Hangman_91 + 2
9: AlanGrant_91 + 1
10: JAMaL_91
11: Heath_85 + 3
12: Nigel_86
13: ChrisnMich_92
14: RawrgerThat_89
15: Renkei_90 + 1
16: VioletZ_93 + 1
17: Magpie_87
18: QueenPie_83
19: Ahwei_88
20: JaguarMi_85
21: Zaria_66 + 1
22: AvadaKedavra_65 + 9
23: LeBron_64 + 1

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 347697 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347697 has 52 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Apex_92
• Track 2 : Austelle_91, JoyceMaria_91, Fanaw_86
• Track 3 : Waleliano_90
• Track 4 : GinPorsche_92, Epah_90, Poster_89, Antihero_90, Nanao_90, Lambano_88, Hally898_88
• Track 5 : Mudslide_92, Prince_91
• Track 6 : Lolalove_93, BrownCNA_91
• Track 7 : Xincheng_83
• Track 8 : Hangman_91, Mithril_89, Fortunato_88
• Track 9 : AlanGrant_91, Vincenzo_90
• Track 10 : JAMaL_91
• Track 11 : Heath_85, Frederick_92, BobbyK_91, Zemanar_89
• Track 12 : Nigel_86
• Track 13 : ChrisnMich_92
• Track 14 : RawrgerThat_89
• Track 15 : Renkei_90, LittleDigger_90
• Track 16 : VioletZ_93, Hydro_91
• Track 17 : Magpie_87
• Track 18 : QueenPie_83
• Track 19 : Ahwei_88
• Track 20 : JaguarMi_85
• Track 21 : Zaria_66, Calm_66
• Track 22 : AvadaKedavra_65, DirkDirk_62, Wyatt2_66, Acquire49_65, OhShagHennessy_63, Silverleaf_65, MAckerman_64, Tyson_65, CicholasNage_64, Appletree2_65
• Track 23 : LeBron_64, Halena_63

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

The start number called the most often in the published annotations is 10, it was called in 26 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Ahwei_88, AlanGrant_91, Antihero_90, Apex_92, Austelle_91, BobbyK_91, BrownCNA_91, ChrisnMich_92, Epah_90, Fanaw_86, Fortunato_88, Frederick_92, GinPorsche_92, Hally898_88, Hangman_91, Heath_85, Hydro_91, JaguarMi_85, JoyceMaria_91, Lambano_88, LittleDigger_90, Lolalove_93, Magpie_87, Mithril_89, Mudslide_92, Nanao_90, Nigel_86, Poster_89, Prince_91, QueenPie_83, RawrgerThat_89, Renkei_90, Vincenzo_90, VioletZ_93, Waleliano_90, Xincheng_83, Zemanar_89,

Genes that have the "Most Annotated" start but do not call it:
• JAMaL_91,

Genes that do not have the "Most Annotated" start:
• Acquire49_65, Appletree2_65, AvadaKedavra_65, Calm_66, CicholasNage_64, DirkDirk_62, Halena_63, LeBron_64, MAckerman_64, OhShagHennessy_63, Silverleaf_65, Tyson_65, Wyatt2_66, Zaria_66,

Summary by start number:

Start 5:
• Found in 3 of 52 (5.8%) of genes in pham
• Manual Annotations of this start: 1 of 41
• Called 33.3% of time when present
• Phage (with cluster) where this start called: JAMaL_91 (B4),

Start 8:
• Found in 14 of 52 (26.9%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Halena_63 (L1), LeBron_64 (L1),

Start 9:
• Found in 14 of 52 (26.9%) of genes in pham
• Manual Annotations of this start: 12 of 41
• Called 85.7% of time when present
• Phage (with cluster) where this start called: Acquire49_65 (L1), Appletree2_65 (L1), AvadaKedavra_65 (L1), Calm_66 (L1), CicholasNage_64 (L1), DirkDirk_62 (L1), MAckerman_64 (L1), OhShagHennessy_63 (L1), Silverleaf_65 (L1), Tyson_65 (L1), Wyatt2_66 (L1), Zaria_66 (L1),

Start 10:
• Found in 38 of 52 (73.1%) of genes in pham
• Manual Annotations of this start: 26 of 41
• Called 97.4% of time when present
• Phage (with cluster) where this start called: Ahwei_88 (B4), AlanGrant_91 (B4), Antihero_90 (B4), Apex_92 (B4), Austelle_91 (B4), BobbyK_91 (B4), BrownCNA_91 (B4), ChrisnMich_92 (B4), Epah_90 (B4), Fanaw_86 (B4), Fortunato_88 (B4), Frederick_92 (B4), GinPorsche_92 (B4), Hally898_88 (B4), Hangman_91 (B4), Heath_85 (B4), Hydro_91 (B4), JaguarMi_85 (B4), JoyceMaria_91 (B4), Lambano_88 (B4), LittleDigger_90 (B4), Lolalove_93 (B4), Magpie_87 (B4), Mithril_89 (B4), Mudslide_92 (B4), Nanao_90 (B4), Nigel_86 (B4), Poster_89 (B4), Prince_91 (B4), QueenPie_83 (B4), RawrgerThat_89 (B4), Renkei_90 (B4), Vincenzo_90 (B4), VioletZ_93 (B4), Waleliano_90 (B4), Xincheng_83 (B4), Zemanar_89 (B4),

Summary by clusters:

There are 2 clusters represented in this pham: B4, L1,

Info for manual annotations of cluster B4:
•Start number 5 was manually annotated 1 time for cluster B4.
•Start number 10 was manually annotated 26 times for cluster B4.

Info for manual annotations of cluster L1:
•Start number 8 was manually annotated 2 times for cluster L1.
•Start number 9 was manually annotated 12 times for cluster L1.

Gene Information:

Gene: Acquire49_65 Start: 44641, Stop: 44871, Start Num: 9
Candidate Starts for Acquire49_65:
(Start: 8 @44638 has 2 MA's), (Start: 9 @44641 has 12 MA's), (11, 44677), (12, 44680), (15, 44752), (16, 44758), (18, 44791),

Gene: Ahwei_88 Start: 66715, Stop: 66491, Start Num: 10
Candidate Starts for Ahwei_88:
(Start: 10 @66715 has 26 MA's), (16, 66610), (18, 66571),

Gene: AlanGrant_91 Start: 68264, Stop: 68034, Start Num: 10
Candidate Starts for AlanGrant_91:
(2, 68771), (3, 68360), (Start: 10 @68264 has 26 MA's), (16, 68159), (17, 68144), (18, 68120),

Gene: Antihero_90 Start: 66640, Stop: 66410, Start Num: 10
Candidate Starts for Antihero_90:
(3, 66727), (Start: 10 @66640 has 26 MA's), (16, 66535), (18, 66496), (20, 66421),

Gene: Apex_92 Start: 67741, Stop: 67511, Start Num: 10
Candidate Starts for Apex_92:
(1, 68392), (3, 67831), (Start: 10 @67741 has 26 MA's), (16, 67636), (18, 67597), (19, 67525), (20, 67522),

Gene: Appletree2_65 Start: 44465, Stop: 44698, Start Num: 9
Candidate Starts for Appletree2_65:
(Start: 8 @44462 has 2 MA's), (Start: 9 @44465 has 12 MA's), (11, 44501), (12, 44504), (15, 44576), (16, 44582), (18, 44615),

Gene: Austelle_91 Start: 68342, Stop: 68112, Start Num: 10
Candidate Starts for Austelle_91:
(1, 68924), (Start: 10 @68342 has 26 MA's), (16, 68237), (18, 68198), (19, 68126), (20, 68123),

Gene: AvadaKedavra_65 Start: 44714, Stop: 44944, Start Num: 9
Candidate Starts for AvadaKedavra_65:
(Start: 8 @44711 has 2 MA's), (Start: 9 @44714 has 12 MA's), (11, 44750), (12, 44753), (15, 44825), (16, 44831), (18, 44864),

Gene: BobbyK_91 Start: 67249, Stop: 67019, Start Num: 10

Candidate Starts for BobbyK_91:
(3, 67339), (Start: 10 @67249 has 26 MA's), (16, 67144), (18, 67105), (19, 67033), (20, 67030),

Gene: BrownCNA_91 Start: 67757, Stop: 67527, Start Num: 10
Candidate Starts for BrownCNA_91:
(1, 68339), (Start: 10 @67757 has 26 MA's), (16, 67652), (18, 67613), (19, 67541), (20, 67538),

Gene: Calm_66 Start: 44641, Stop: 44874, Start Num: 9
Candidate Starts for Calm_66:
(Start: 8 @44638 has 2 MA's), (Start: 9 @44641 has 12 MA's), (11, 44677), (12, 44680), (16, 44758), (18, 44791),

Gene: ChrisnMich_92 Start: 66319, Stop: 66092, Start Num: 10
Candidate Starts for ChrisnMich_92:
(Start: 10 @66319 has 26 MA's), (13, 66283), (16, 66214), (17, 66199), (18, 66175),

Gene: CicholasNage_64 Start: 44677, Stop: 44910, Start Num: 9
Candidate Starts for CicholasNage_64:
(Start: 8 @44674 has 2 MA's), (Start: 9 @44677 has 12 MA's), (11, 44713), (12, 44716), (15, 44788), (16, 44794), (18, 44827),

Gene: DirkDirk_62 Start: 44051, Stop: 44284, Start Num: 9
Candidate Starts for DirkDirk_62:
(Start: 8 @44048 has 2 MA's), (Start: 9 @44051 has 12 MA's), (11, 44087), (12, 44090), (15, 44162), (16, 44168), (18, 44201),

Gene: Epah_90 Start: 66640, Stop: 66410, Start Num: 10
Candidate Starts for Epah_90:
(3, 66727), (Start: 10 @66640 has 26 MA's), (16, 66535), (18, 66496), (20, 66421),

Gene: Fanaw_86 Start: 67353, Stop: 67123, Start Num: 10
Candidate Starts for Fanaw_86:
(1, 67935), (Start: 10 @67353 has 26 MA's), (16, 67248), (18, 67209), (19, 67137), (20, 67134),

Gene: Fortunato_88 Start: 67050, Stop: 66820, Start Num: 10
Candidate Starts for Fortunato_88:
(1, 67701), (Start: 10 @67050 has 26 MA's), (16, 66945), (18, 66906), (19, 66834), (20, 66831),

Gene: Frederick_92 Start: 67555, Stop: 67325, Start Num: 10
Candidate Starts for Frederick_92:
(3, 67645), (Start: 10 @67555 has 26 MA's), (16, 67450), (18, 67411), (19, 67339), (20, 67336),

Gene: GinPorsche_92 Start: 66637, Stop: 66407, Start Num: 10
Candidate Starts for GinPorsche_92:
(3, 66724), (Start: 10 @66637 has 26 MA's), (16, 66532), (18, 66493), (20, 66418),

Gene: Halena_63 Start: 44085, Stop: 44321, Start Num: 8
Candidate Starts for Halena_63:
(Start: 8 @44085 has 2 MA's), (Start: 9 @44088 has 12 MA's), (11, 44124), (12, 44127), (15, 44199), (16, 44205), (18, 44238),

Gene: Hally898_88 Start: 66477, Stop: 66247, Start Num: 10
Candidate Starts for Hally898_88:

(3, 66564), (Start: 10 @66477 has 26 MA's), (16, 66372), (18, 66333), (20, 66258),

Gene: Hangman_91 Start: 67850, Stop: 67620, Start Num: 10
Candidate Starts for Hangman_91:
(1, 68501), (Start: 10 @67850 has 26 MA's), (16, 67745), (18, 67706), (19, 67634), (20, 67631),

Gene: Heath_85 Start: 65620, Stop: 65390, Start Num: 10
Candidate Starts for Heath_85:
(3, 65710), (Start: 10 @65620 has 26 MA's), (16, 65515), (18, 65476), (19, 65404), (20, 65401),

Gene: Hydro_91 Start: 67626, Stop: 67396, Start Num: 10
Candidate Starts for Hydro_91:
(Start: 5 @67695 has 1 MA's), (6, 67692), (7, 67680), (Start: 10 @67626 has 26 MA's), (16, 67521), (18, 67482), (19, 67410), (20, 67407),

Gene: JAMaL_91 Start: 67227, Stop: 66934, Start Num: 5
Candidate Starts for JAMaL_91:
(Start: 5 @67227 has 1 MA's), (6, 67224), (7, 67212), (Start: 10 @67158 has 26 MA's), (16, 67053), (18, 67014),

Gene: JaguarMi_85 Start: 67605, Stop: 67375, Start Num: 10
Candidate Starts for JaguarMi_85:
(Start: 10 @67605 has 26 MA's), (16, 67500), (18, 67461), (19, 67389), (20, 67386),

Gene: JoyceMaria_91 Start: 67751, Stop: 67521, Start Num: 10
Candidate Starts for JoyceMaria_91:
(1, 68333), (Start: 10 @67751 has 26 MA's), (16, 67646), (18, 67607), (19, 67535), (20, 67532),

Gene: Lambano_88 Start: 66477, Stop: 66247, Start Num: 10
Candidate Starts for Lambano_88:
(3, 66564), (Start: 10 @66477 has 26 MA's), (16, 66372), (18, 66333), (20, 66258),

Gene: LeBron_64 Start: 44089, Stop: 44325, Start Num: 8
Candidate Starts for LeBron_64:
(Start: 8 @44089 has 2 MA's), (Start: 9 @44092 has 12 MA's), (11, 44128), (12, 44131), (15, 44203), (16, 44209), (18, 44242),

Gene: LittleDigger_90 Start: 66571, Stop: 66347, Start Num: 10
Candidate Starts for LittleDigger_90:
(2, 67072), (4, 66646), (Start: 10 @66571 has 26 MA's), (16, 66466), (18, 66427),

Gene: Lolalove_93 Start: 67654, Stop: 67424, Start Num: 10
Candidate Starts for Lolalove_93:
(1, 68236), (Start: 10 @67654 has 26 MA's), (16, 67549), (18, 67510), (19, 67438), (20, 67435),

Gene: MAckerman_64 Start: 44081, Stop: 44314, Start Num: 9
Candidate Starts for MAckerman_64:
(Start: 8 @44078 has 2 MA's), (Start: 9 @44081 has 12 MA's), (11, 44117), (12, 44120), (15, 44192), (16, 44198), (18, 44231),

Gene: Magpie_87 Start: 67400, Stop: 67170, Start Num: 10
Candidate Starts for Magpie_87:
(Start: 10 @67400 has 26 MA's), (16, 67295), (18, 67256), (19, 67184), (20, 67181),

Gene: Mithril_89 Start: 67411, Stop: 67181, Start Num: 10
Candidate Starts for Mithril_89:
(1, 68062), (Start: 10 @67411 has 26 MA's), (16, 67306), (18, 67267), (19, 67195), (20, 67192),

Gene: Mudslide_92 Start: 67884, Stop: 67654, Start Num: 10
Candidate Starts for Mudslide_92:
(Start: 10 @67884 has 26 MA's), (16, 67779), (18, 67740), (19, 67668), (20, 67665),

Gene: Nanao_90 Start: 66490, Stop: 66260, Start Num: 10
Candidate Starts for Nanao_90:
(3, 66577), (Start: 10 @66490 has 26 MA's), (16, 66385), (18, 66346), (20, 66271),

Gene: Nigel_86 Start: 65946, Stop: 65716, Start Num: 10
Candidate Starts for Nigel_86:
(Start: 10 @65946 has 26 MA's), (13, 65910), (16, 65841), (17, 65826), (18, 65802), (19, 65730),

Gene: OhShagHennessy_63 Start: 43532, Stop: 43762, Start Num: 9
Candidate Starts for OhShagHennessy_63:
(Start: 8 @43529 has 2 MA's), (Start: 9 @43532 has 12 MA's), (11, 43568), (12, 43571), (15, 43643), (16, 43649), (18, 43682),

Gene: Poster_89 Start: 66491, Stop: 66261, Start Num: 10
Candidate Starts for Poster_89:
(3, 66578), (Start: 10 @66491 has 26 MA's), (16, 66386), (18, 66347), (20, 66272),

Gene: Prince_91 Start: 67751, Stop: 67521, Start Num: 10
Candidate Starts for Prince_91:
(Start: 10 @67751 has 26 MA's), (16, 67646), (18, 67607), (19, 67535), (20, 67532),

Gene: QueenPie_83 Start: 65977, Stop: 65747, Start Num: 10
Candidate Starts for QueenPie_83:
(2, 66475), (Start: 10 @65977 has 26 MA's), (16, 65872), (17, 65857), (18, 65833), (19, 65761), (20, 65758),

Gene: RawrgerThat_89 Start: 67191, Stop: 66970, Start Num: 10
Candidate Starts for RawrgerThat_89:
(Start: 10 @67191 has 26 MA's), (14, 67146), (15, 67092), (16, 67086), (17, 67071), (18, 67047),

Gene: Renkei_90 Start: 66565, Stop: 66341, Start Num: 10
Candidate Starts for Renkei_90:
(2, 67066), (4, 66640), (Start: 10 @66565 has 26 MA's), (16, 66460), (18, 66421),

Gene: Silverleaf_65 Start: 44711, Stop: 44944, Start Num: 9
Candidate Starts for Silverleaf_65:
(Start: 8 @44708 has 2 MA's), (Start: 9 @44711 has 12 MA's), (11, 44747), (12, 44750), (15, 44822), (16, 44828), (18, 44861),

Gene: Tyson_65 Start: 44978, Stop: 45208, Start Num: 9
Candidate Starts for Tyson_65:
(Start: 8 @44975 has 2 MA's), (Start: 9 @44978 has 12 MA's), (11, 45014), (12, 45017), (15, 45089), (16, 45095), (18, 45128),

Gene: Vincenzo_90 Start: 68294, Stop: 68064, Start Num: 10
Candidate Starts for Vincenzo_90:
(2, 68801), (3, 68390), (Start: 10 @68294 has 26 MA's), (16, 68189), (17, 68174), (18, 68150),

Gene: VioletZ_93 Start: 67779, Stop: 67549, Start Num: 10
Candidate Starts for VioletZ_93:
(Start: 5 @67848 has 1 MA's), (6, 67845), (7, 67833), (Start: 10 @67779 has 26 MA's), (16, 67674), (18, 67635), (19, 67563), (20, 67560),

Gene: Waleliano_90 Start: 67506, Stop: 67276, Start Num: 10
Candidate Starts for Waleliano_90:
(Start: 10 @67506 has 26 MA's), (16, 67401), (18, 67362), (19, 67290), (20, 67287),

Gene: Wyatt2_66 Start: 44976, Stop: 45206, Start Num: 9
Candidate Starts for Wyatt2_66:
(Start: 8 @44973 has 2 MA's), (Start: 9 @44976 has 12 MA's), (11, 45012), (12, 45015), (15, 45087), (16, 45093), (18, 45126),

Gene: Xincheng_83 Start: 67556, Stop: 67326, Start Num: 10
Candidate Starts for Xincheng_83:
(Start: 10 @67556 has 26 MA's), (16, 67451), (18, 67412), (19, 67340), (20, 67337),

Gene: Zaria_66 Start: 44641, Stop: 44874, Start Num: 9
Candidate Starts for Zaria_66:
(Start: 8 @44638 has 2 MA's), (Start: 9 @44641 has 12 MA's), (11, 44677), (12, 44680), (16, 44758), (18, 44791),

Gene: Zemanar_89 Start: 67454, Stop: 67224, Start Num: 10
Candidate Starts for Zemanar_89:
(3, 67544), (Start: 10 @67454 has 26 MA's), (16, 67349), (18, 67310), (19, 67238), (20, 67235),