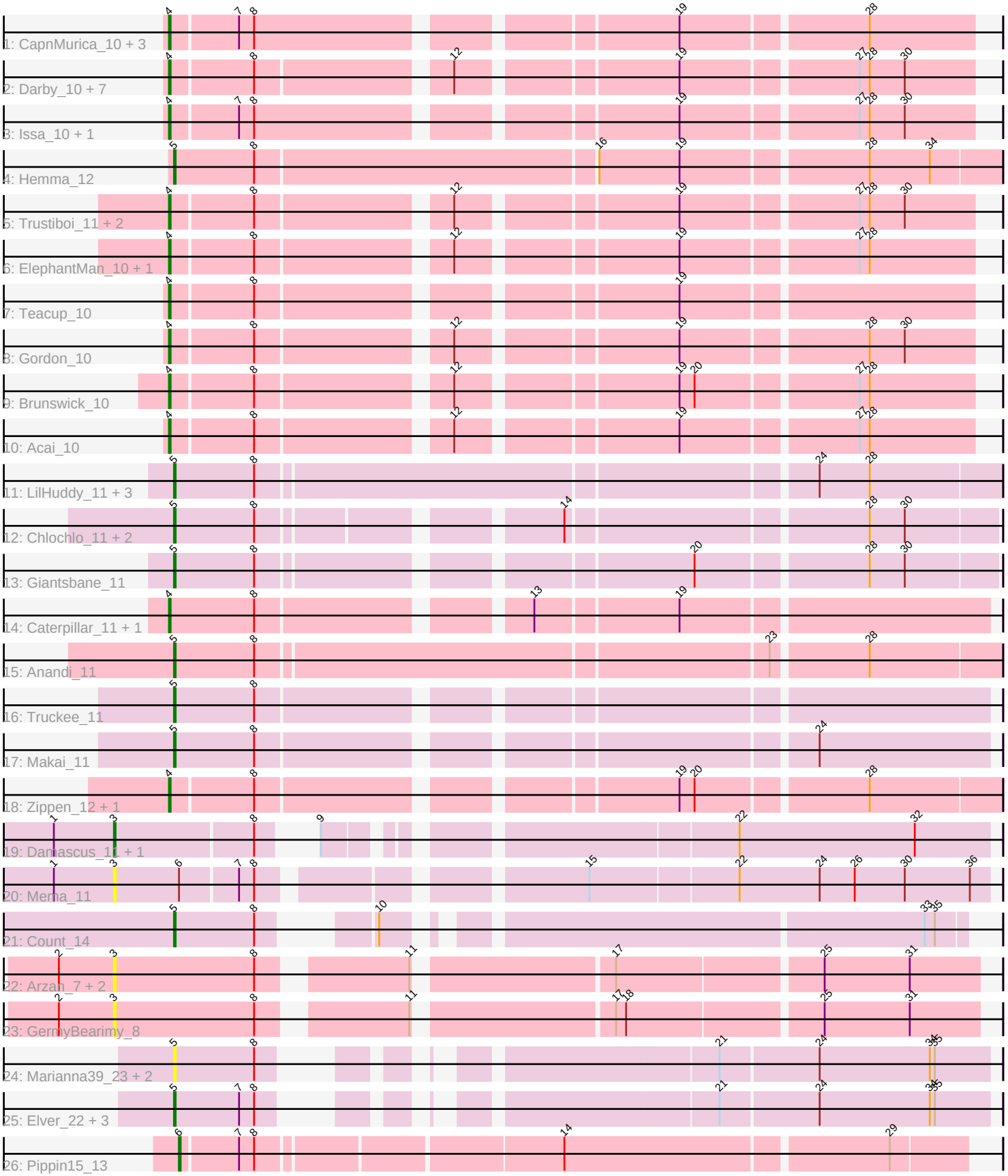
Pham 345803


1: CapnMurica_10 + 3
2: Darby_10 + 7
3: Issa_10 + 1
4: Hemma_12
5: Trustiboi_11 + 2
6: ElephantMan_10 + 1
7: Teacup_10
8: Gordon_10
9: Brunswick_10
10: Acai_10
11: LilHuddy_11 + 3
12: Chlochlo_11 + 2
13: Giantsbane_11
14: Caterpillar_11 + 1
15: Anandi_11
16: Truckee_11
17: Makai_11
18: Zippen_12 + 1
19: Damascus_11 + 1
20: Mema_11
21: Count_14
22: Arzan_7 + 2
23: GermyBearimy_8
24: Marianna39_23 + 2
25: Elver_22 + 3
26: Pippin15_13

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 345803 Report

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

Pham number 345803 has 55 members, 12 are drafts.

Phages represented in each track:
• Track 1 : CapnMurica_10, MiniBagel_10, Dinallo_11, Tenno_11
• Track 2 : Darby_10, DevitoJr_10, Nivinsha_10, AreFloNak_10, Tatanka_9, Synepsis_9, Westerlin_10, ScienceWizSam_11
• Track 3 : Issa_10, LucySwiss_10
• Track 4 : Hemma_12
• Track 5 : Trustiboi_11, Breylor17_11, CastorTray_12
• Track 6 : ElephantMan_10, Niktson_10
• Track 7 : Teacup_10
• Track 8 : Gordon_10
• Track 9 : Brunswick_10
• Track 10 : Acai_10
• Track 11 : LilHuddy_11, Phaby_11, Bouchard_11, Shepard_11
• Track 12 : Chlochlo_11, Tokki_11, Tipton_11
• Track 13 : Giantsbane_11
• Track 14 : Caterpillar_11, MediumFry_11
• Track 15 : Anandi_11
• Track 16 : Truckee_11
• Track 17 : Makai_11
• Track 18 : Zippen_12, Inked_12
• Track 19 : Damascus_11, DizzyRudy_11
• Track 20 : Mema_11
• Track 21 : Count_14
• Track 22 : Arzan_7, Jazzy4900_8, Sunny4976_7
• Track 23 : GermyBearimy_8
• Track 24 : Marianna39_23, Kureo_23, Gandionco_22
• Track 25 : Elver_22, JeNeSaisPas_21, Paella_22, Qui_22
• Track 26 : Pippin15_13

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

The start number called the most often in the published annotations is 4, it was called in 23 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Acai_10, AreFloNak_10, Breylor17_11, Brunswick_10, CapnMurica_10, CastorTray_12, Caterpillar_11, Darby_10, DevitoJr_10, Dinallo_11, ElephantMan_10, Gordon_10, Inked_12, Issa_10, LucySwiss_10, MediumFry_11, MiniBagel_10, Niktson_10, Nivinsha_10, ScienceWizSam_11, Synepsis_9, Tatanka_9, Teacup_10, Tenno_11, Trustiboi_11, Westerlin_10, Zippen_12,

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

Genes that do not have the "Most Annotated" start:
• Anandi_11, Arzan_7, Bouchard_11, Chlochlo_11, Count_14, Damascus_11, DizzyRudy_11, Elver_22, Gandionco_22, GermyBearimy_8, Giantsbane_11, Hemma_12, Jazzy4900_8, JeNeSaisPas_21, Kureo_23, LilHuddy_11, Makai_11, Marianna39_23, Mema_11, Paella_22, Phaby_11, Pippin15_13, Qui_22, Shepard_11, Sunny4976_7, Tipton_11, Tokki_11, Truckee_11,

Summary by start number:

Start 3:
• Found in 7 of 55 (12.7%) of genes in pham
• Manual Annotations of this start: 2 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arzan_7 (FI), Damascus_11 (EL), DizzyRudy_11 (EL), GermyBearimy_8 (FI), Jazzy4900_8 (FI), Mema_11 (EL), Sunny4976_7 (FI),

Start 4:
• Found in 27 of 55 (49.1%) of genes in pham
• Manual Annotations of this start: 23 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acai_10 (AU1), AreFloNak_10 (AU1), Breylor17_11 (AU1), Brunswick_10 (AU1), CapnMurica_10 (AU1), CastorTray_12 (AU1), Caterpillar_11 (AU4), Darby_10 (AU1), DevitoJr_10 (AU1), Dinallo_11 (AU1), ElephantMan_10 (AU1), Gordon_10 (AU1), Inked_12 (AU7), Issa_10 (AU1), LucySwiss_10 (AU1), MediumFry_11 (AU4), MiniBagel_10 (AU1), Niktson_10 (AU1), Nivinsha_10 (AU1), ScienceWizSam_11 (AU1), Synepsis_9 (AU1), Tatanka_9 (AU1), Teacup_10 (AU1), Tenno_11 (AU1), Trustiboi_11 (AU1), Westerlin_10 (AU1), Zippen_12 (AU7),

Start 5:
• Found in 20 of 55 (36.4%) of genes in pham
• Manual Annotations of this start: 17 of 43
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anandi_11 (AU4), Bouchard_11 (AU2), Chlochlo_11 (AU2), Count_14 (EL), Elver_22 (FK), Gandionco_22 (FK), Giantsbane_11 (AU2), Hemma_12 (AU1), JeNeSaisPas_21 (FK), Kureo_23 (FK), LilHuddy_11 (AU2), Makai_11 (AU5), Marianna39_23 (FK), Paella_22 (FK), Phaby_11 (AU2), Qui_22 (FK), Shepard_11 (AU2), Tipton_11 (AU2), Tokki_11 (AU2), Truckee_11 (AU5),

Start 6:
• Found in 2 of 55 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 43

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Pippin15_13 (JA),

Summary by clusters:

There are 9 clusters represented in this pham: EL, AU1, AU2, AU5, AU4, AU7, FI, FK, JA,

Info for manual annotations of cluster AU1:
•Start number 4 was manually annotated 19 times for cluster AU1.
•Start number 5 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 5 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 4 was manually annotated 2 times for cluster AU4.
•Start number 5 was manually annotated 1 time for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 5 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:
•Start number 4 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster EL:
•Start number 3 was manually annotated 2 times for cluster EL.
•Start number 5 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster FK:
•Start number 5 was manually annotated 4 times for cluster FK.

Info for manual annotations of cluster JA:
•Start number 6 was manually annotated 1 time for cluster JA.

Gene Information:

Gene: Acai_10 Start: 6876, Stop: 7316, Start Num: 4
Candidate Starts for Acai_10:
(Start: 4 @6876 has 23 MA's), (8, 6924), (12, 7029), (19, 7149), (27, 7248), (28, 7254),

Gene: Anandi_11 Start: 6972, Stop: 7445, Start Num: 5
Candidate Starts for Anandi_11:
(Start: 5 @6972 has 17 MA's), (8, 7020), (23, 7314), (28, 7368),

Gene: AreFloNak_10 Start: 6760, Stop: 7200, Start Num: 4
Candidate Starts for AreFloNak_10:
(Start: 4 @6760 has 23 MA's), (8, 6808), (12, 6913), (19, 7033), (27, 7132), (28, 7138), (30, 7159),

Gene: Arzan_7 Start: 3219, Stop: 3695, Start Num: 3

Candidate Starts for Arzan_7:
(2, 3186), (Start: 3 @3219 has 2 MA's), (8, 3303), (11, 3378), (17, 3486), (25, 3603), (31, 3654),

Gene: Bouchard_11 Start: 7258, Stop: 7728, Start Num: 5
Candidate Starts for Bouchard_11:
(Start: 5 @7258 has 17 MA's), (8, 7306), (24, 7621), (28, 7651),

Gene: Breylor17_11 Start: 7428, Stop: 7868, Start Num: 4
Candidate Starts for Breylor17_11:
(Start: 4 @7428 has 23 MA's), (8, 7476), (12, 7581), (19, 7701), (27, 7800), (28, 7806), (30, 7827),

Gene: Brunswick_10 Start: 6872, Stop: 7312, Start Num: 4
Candidate Starts for Brunswick_10:
(Start: 4 @6872 has 23 MA's), (8, 6920), (12, 7025), (19, 7145), (20, 7154), (27, 7244), (28, 7250),

Gene: CapnMurica_10 Start: 7969, Stop: 8412, Start Num: 4
Candidate Starts for CapnMurica_10:
(Start: 4 @7969 has 23 MA's), (7, 8008), (8, 8017), (19, 8245), (28, 8350),

Gene: CastorTray_12 Start: 7282, Stop: 7719, Start Num: 4
Candidate Starts for CastorTray_12:
(Start: 4 @7282 has 23 MA's), (8, 7330), (12, 7432), (19, 7552), (27, 7651), (28, 7657), (30, 7678),

Gene: Caterpillar_11 Start: 6974, Stop: 7426, Start Num: 4
Candidate Starts for Caterpillar_11:
(Start: 4 @6974 has 23 MA's), (8, 7025), (13, 7169), (19, 7250),

Gene: Chlochlo_11 Start: 7318, Stop: 7764, Start Num: 5
Candidate Starts for Chlochlo_11:
(Start: 5 @7318 has 17 MA's), (8, 7366), (14, 7522), (28, 7690), (30, 7711),

Gene: Count_14 Start: 7642, Stop: 8037, Start Num: 5
Candidate Starts for Count_14:
(Start: 5 @7642 has 17 MA's), (8, 7690), (10, 7726), (33, 8014), (35, 8020),

Gene: Damascus_11 Start: 5598, Stop: 6050, Start Num: 3
Candidate Starts for Damascus_11:
(1, 5562), (Start: 3 @5598 has 2 MA's), (8, 5679), (9, 5691), (22, 5901), (32, 6006),

Gene: Darby_10 Start: 6742, Stop: 7182, Start Num: 4
Candidate Starts for Darby_10:
(Start: 4 @6742 has 23 MA's), (8, 6790), (12, 6895), (19, 7015), (27, 7114), (28, 7120), (30, 7141),

Gene: DevitoJr_10 Start: 6884, Stop: 7324, Start Num: 4
Candidate Starts for DevitoJr_10:
(Start: 4 @6884 has 23 MA's), (8, 6932), (12, 7037), (19, 7157), (27, 7256), (28, 7262), (30, 7283),

Gene: Dinallo_11 Start: 7969, Stop: 8412, Start Num: 4
Candidate Starts for Dinallo_11:
(Start: 4 @7969 has 23 MA's), (7, 8008), (8, 8017), (19, 8245), (28, 8350),

Gene: DizzyRudy_11 Start: 5596, Stop: 6048, Start Num: 3
Candidate Starts for DizzyRudy_11:

(1, 5560), (Start: 3 @5596 has 2 MA's), (8, 5677), (9, 5689), (22, 5899), (32, 6004),

Gene: ElephantMan_10 Start: 7443, Stop: 7883, Start Num: 4
Candidate Starts for ElephantMan_10:
(Start: 4 @7443 has 23 MA's), (8, 7491), (12, 7596), (19, 7716), (27, 7815), (28, 7821),

Gene: Elver_22 Start: 12542, Stop: 12943, Start Num: 5
Candidate Starts for Elver_22:
(Start: 5 @12542 has 17 MA's), (7, 12581), (8, 12590), (21, 12785), (24, 12842), (34, 12908), (35, 12911),

Gene: Gandionco_22 Start: 13044, Stop: 13445, Start Num: 5
Candidate Starts for Gandionco_22:
(Start: 5 @13044 has 17 MA's), (8, 13092), (21, 13287), (24, 13344), (34, 13410), (35, 13413),

Gene: GermyBearimy_8 Start: 3242, Stop: 3718, Start Num: 3
Candidate Starts for GermyBearimy_8:
(2, 3209), (Start: 3 @3242 has 2 MA's), (8, 3326), (11, 3401), (17, 3509), (18, 3515), (25, 3626), (31, 3677),

Gene: Giantsbane_11 Start: 7271, Stop: 7720, Start Num: 5
Candidate Starts for Giantsbane_11:
(Start: 5 @7271 has 17 MA's), (8, 7319), (20, 7550), (28, 7646), (30, 7667),

Gene: Gordon_10 Start: 8008, Stop: 8448, Start Num: 4
Candidate Starts for Gordon_10:
(Start: 4 @8008 has 23 MA's), (8, 8056), (12, 8161), (19, 8281), (28, 8386), (30, 8407),

Gene: Hemma_12 Start: 7295, Stop: 7771, Start Num: 5
Candidate Starts for Hemma_12:
(Start: 5 @7295 has 17 MA's), (8, 7343), (16, 7541), (19, 7589), (28, 7694), (34, 7730),

Gene: Inked_12 Start: 7488, Stop: 7943, Start Num: 4
Candidate Starts for Inked_12:
(Start: 4 @7488 has 23 MA's), (8, 7536), (19, 7761), (20, 7770), (28, 7866),

Gene: Issa_10 Start: 6715, Stop: 7158, Start Num: 4
Candidate Starts for Issa_10:
(Start: 4 @6715 has 23 MA's), (7, 6754), (8, 6763), (19, 6991), (27, 7090), (28, 7096), (30, 7117),

Gene: Jazzy4900_8 Start: 3241, Stop: 3717, Start Num: 3
Candidate Starts for Jazzy4900_8:
(2, 3208), (Start: 3 @3241 has 2 MA's), (8, 3325), (11, 3400), (17, 3508), (25, 3625), (31, 3676),

Gene: JeNeSaisPas_21 Start: 13077, Stop: 13478, Start Num: 5
Candidate Starts for JeNeSaisPas_21:
(Start: 5 @13077 has 17 MA's), (7, 13116), (8, 13125), (21, 13320), (24, 13377), (34, 13443), (35, 13446),

Gene: Kureo_23 Start: 12894, Stop: 13295, Start Num: 5
Candidate Starts for Kureo_23:
(Start: 5 @12894 has 17 MA's), (8, 12942), (21, 13137), (24, 13194), (34, 13260), (35, 13263),

Gene: LilHuddy_11 Start: 7265, Stop: 7738, Start Num: 5
Candidate Starts for LilHuddy_11:
(Start: 5 @7265 has 17 MA's), (8, 7313), (24, 7631), (28, 7661),

Gene: LucySwiss_10 Start: 6734, Stop: 7177, Start Num: 4
Candidate Starts for LucySwiss_10:
(Start: 4 @6734 has 23 MA's), (7, 6773), (8, 6782), (19, 7010), (27, 7109), (28, 7115), (30, 7136),

Gene: Makai_11 Start: 7402, Stop: 7851, Start Num: 5
Candidate Starts for Makai_11:
(Start: 5 @7402 has 17 MA's), (8, 7450), (24, 7750),

Gene: Marianna39_23 Start: 13044, Stop: 13445, Start Num: 5
Candidate Starts for Marianna39_23:
(Start: 5 @13044 has 17 MA's), (8, 13092), (21, 13287), (24, 13344), (34, 13410), (35, 13413),

Gene: MediumFry_11 Start: 7003, Stop: 7455, Start Num: 4
Candidate Starts for MediumFry_11:
(Start: 4 @7003 has 23 MA's), (8, 7054), (13, 7198), (19, 7279),

Gene: Mema_11 Start: 6500, Stop: 6979, Start Num: 3
Candidate Starts for Mema_11:
(1, 6464), (Start: 3 @6500 has 2 MA's), (Start: 6 @6539 has 1 MA's), (7, 6572), (8, 6581), (15, 6746), (22, 6830), (24, 6878), (26, 6899), (30, 6929), (36, 6968),

Gene: MiniBagel_10 Start: 7960, Stop: 8403, Start Num: 4
Candidate Starts for MiniBagel_10:
(Start: 4 @7960 has 23 MA's), (7, 7999), (8, 8008), (19, 8236), (28, 8341),

Gene: Niktson_10 Start: 7443, Stop: 7883, Start Num: 4
Candidate Starts for Niktson_10:
(Start: 4 @7443 has 23 MA's), (8, 7491), (12, 7596), (19, 7716), (27, 7815), (28, 7821),

Gene: Nivinsha_10 Start: 6760, Stop: 7200, Start Num: 4
Candidate Starts for Nivinsha_10:
(Start: 4 @6760 has 23 MA's), (8, 6808), (12, 6913), (19, 7033), (27, 7132), (28, 7138), (30, 7159),

Gene: Paella_22 Start: 12544, Stop: 12945, Start Num: 5
Candidate Starts for Paella_22:
(Start: 5 @12544 has 17 MA's), (7, 12583), (8, 12592), (21, 12787), (24, 12844), (34, 12910), (35, 12913),

Gene: Phaby_11 Start: 7255, Stop: 7725, Start Num: 5
Candidate Starts for Phaby_11:
(Start: 5 @7255 has 17 MA's), (8, 7303), (24, 7618), (28, 7648),

Gene: Pippin15_13 Start: 9246, Stop: 9689, Start Num: 6
Candidate Starts for Pippin15_13:
(Start: 6 @9246 has 1 MA's), (7, 9279), (8, 9288), (14, 9459), (29, 9645),

Gene: Qui_22 Start: 12544, Stop: 12945, Start Num: 5
Candidate Starts for Qui_22:

(Start: 5 @12544 has 17 MA's), (7, 12583), (8, 12592), (21, 12787), (24, 12844), (34, 12910), (35, 12913),

Gene: ScienceWizSam_11 Start: 6715, Stop: 7155, Start Num: 4
Candidate Starts for ScienceWizSam_11:
(Start: 4 @6715 has 23 MA's), (8, 6763), (12, 6868), (19, 6988), (27, 7087), (28, 7093), (30, 7114),

Gene: Shepard_11 Start: 7265, Stop: 7735, Start Num: 5
Candidate Starts for Shepard_11:
(Start: 5 @7265 has 17 MA's), (8, 7313), (24, 7628), (28, 7658),

Gene: Sunny4976_7 Start: 3241, Stop: 3717, Start Num: 3
Candidate Starts for Sunny4976_7:
(2, 3208), (Start: 3 @3241 has 2 MA's), (8, 3325), (11, 3400), (17, 3508), (25, 3625), (31, 3676),

Gene: Synepsis_9 Start: 6880, Stop: 7320, Start Num: 4
Candidate Starts for Synepsis_9:
(Start: 4 @6880 has 23 MA's), (8, 6928), (12, 7033), (19, 7153), (27, 7252), (28, 7258), (30, 7279),

Gene: Tatanka_9 Start: 6820, Stop: 7260, Start Num: 4
Candidate Starts for Tatanka_9:
(Start: 4 @6820 has 23 MA's), (8, 6868), (12, 6973), (19, 7093), (27, 7192), (28, 7198), (30, 7219),

Gene: Teacup_10 Start: 6718, Stop: 7158, Start Num: 4
Candidate Starts for Teacup_10:
(Start: 4 @6718 has 23 MA's), (8, 6766), (19, 6991),

Gene: Tenno_11 Start: 7969, Stop: 8412, Start Num: 4
Candidate Starts for Tenno_11:
(Start: 4 @7969 has 23 MA's), (7, 8008), (8, 8017), (19, 8245), (28, 8350),

Gene: Tipton_11 Start: 7318, Stop: 7764, Start Num: 5
Candidate Starts for Tipton_11:
(Start: 5 @7318 has 17 MA's), (8, 7366), (14, 7522), (28, 7690), (30, 7711),

Gene: Tokki_11 Start: 7327, Stop: 7773, Start Num: 5
Candidate Starts for Tokki_11:
(Start: 5 @7327 has 17 MA's), (8, 7375), (14, 7531), (28, 7699), (30, 7720),

Gene: Truckee_11 Start: 7349, Stop: 7798, Start Num: 5
Candidate Starts for Truckee_11:
(Start: 5 @7349 has 17 MA's), (8, 7397),

Gene: Trustiboi_11 Start: 7447, Stop: 7887, Start Num: 4
Candidate Starts for Trustiboi_11:
(Start: 4 @7447 has 23 MA's), (8, 7495), (12, 7600), (19, 7720), (27, 7819), (28, 7825), (30, 7846),

Gene: Westerlin_10 Start: 7966, Stop: 8406, Start Num: 4
Candidate Starts for Westerlin_10:
(Start: 4 @7966 has 23 MA's), (8, 8014), (12, 8119), (19, 8239), (27, 8338), (28, 8344), (30, 8365),

Gene: Zippen_12 Start: 7519, Stop: 7974, Start Num: 4
Candidate Starts for Zippen_12:

(Start: 4 @7519 has 23 MA's), (8, 7567), (19, 7792), (20, 7801), (28, 7897),