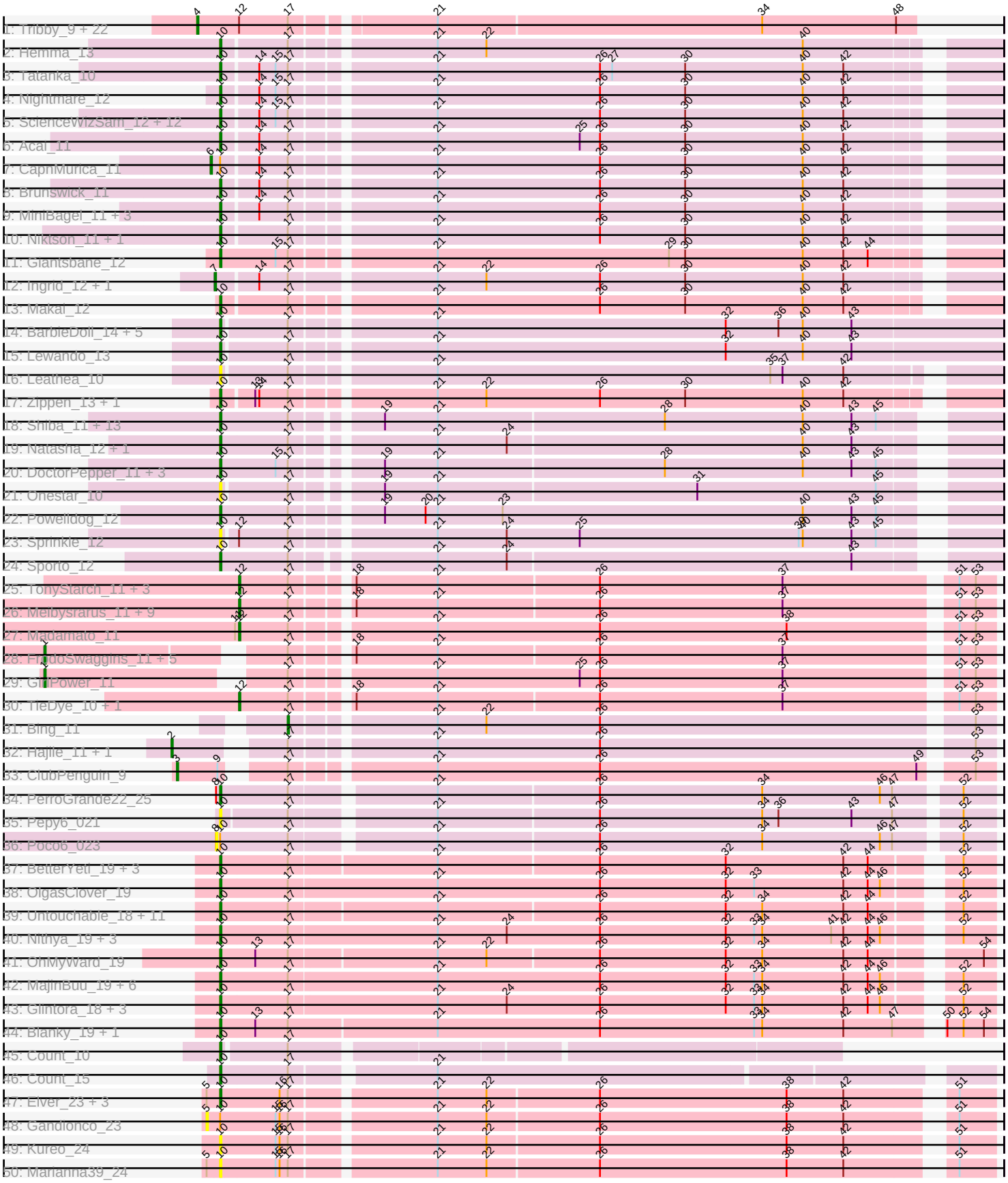
Pham 347331


1: Tribby_9 + 22
2: Hemma_13
3: Tatanka_10
4: Nightmare_12
5: ScienceWizSam_12 + 12
6: Acai_11
7: CapnMurica_11
8: Brunswick_11
9: MiniBagel_11 + 3
10: Niktson_11 + 1
11: Giantsbane_12
12: Ingrid_12 + 1
13: Makai_12
14: BarbieDoll_14 + 5
15: Lewando_13
16: Leathea_10
17: Zippen_13 + 1
18: Smiba_11 + 13
19: Natasha_12 + 1
20: DoctorPepper_11 + 3
21: Onestar_10
22: Powelldog_12
23: Sprinkle_12
24: Sporto_12
25: TonyStarch_11 + 3
26: Melbysrarus_11 + 9
27: Madamato_11
28: FroduSwaggins_11 + 5
29: GirlPower_11
30: TieDye_10 + 1
31: Bing_11
32: Hajile_11 + 1
33: ClubPenguin_9
34: PerroGrande22_25
35: Pepy6_021
36: Poco6_023
37: BetterYeti_19 + 3
38: OlgasClover_19
39: Untouchable_18 + 11
40: Nithya_19 + 3
41: OhMyWard_19
42: MajinBuu_19 + 6
43: Glintora_18 + 3
44: Blanky_19 + 1
45: Count_10
46: Count_15
47: Elver_23 + 3
48: Gandlonco_23
49: Kureo_24
50: Mananna39_24

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 347331 Report

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

Pham number 347331 has 161 members, 23 are drafts.

Phages represented in each track:
• Track 1 : Tribby_9, Mooshroom_9, KeaneyLin_8, NapoleonB_9, Heisenberger_9, Kardesai_8, YoshiYama_8, JEGGS_9, Dynamite_9, BenitoAntonio_9, Xenomorph_8, Arcadia_9, GoCrazy_8, Circum_9, Benllo_8, Cheesy_9, Nason_9, Hankly_8, Bowling_9, Mudcat_9, Correa_9, Elsa_9, Stardom_8
• Track 2 : Hemma_13
• Track 3 : Tatanka_10
• Track 4 : Nightmare_12
• Track 5 : ScienceWizSam_12, Darby_11, Issa_11, AreFloNak_11, Breylor17_12, CastorTray_13, Gordon_11, Synepsis_10, DevitoJr_11, LucySwiss_11, Trustiboi_12, Nivinsha_11, Westerlin_11
• Track 6 : Acai_11
• Track 7 : CapnMurica_11
• Track 8 : Brunswick_11
• Track 9 : MiniBagel_11, Tenno_12, Teacup_11, Dinallo_12
• Track 10 : Niktson_11, ElephantMan_11
• Track 11 : Giantsbane_12
• Track 12 : Ingrid_12, Loretta_12
• Track 13 : Makai_12
• Track 14 : BarbieDoll_14, Renaldo_15, Kinny_12, Biscute_11, Barbonzobean_12, Muglass_12
• Track 15 : Lewando_13
• Track 16 : Leathea_10
• Track 17 : Zippen_13, Inked_13
• Track 18 : Shiba_11, HerbBucket_10, Spain_10, ProfFrink_11, MrAaronian_11, Djungelskog_11, Boog_11, Egad_11, Stayer_11, BronxBay_11, Sloopyjoe_11, Michelle_11, Raunak_11, StarLord_11
• Track 19 : Natasha_12, RustyBoy_12
• Track 20 : DoctorPepper_11, Jeremy4pt0_11, Salk_11, Linda_11
• Track 21 : Onestar_10
• Track 22 : Powelldog_12
• Track 23 : Sprinkle_12
• Track 24 : Sporto_12
• Track 25 : TonyStarch_11, OlympicHelado_11, Rima_11, Namo_11
• Track 26 : Meibysrarus_11, FidgetOrca_11, Maya_11, Esketit_11, Jaylociraptor_11, IceWarrior_11, Indigenous_11, Hoshi_11, Spectropatronm_11, CherryBlossom_11
• Track 27 : Madamato_11

• Track 28 : FrodoSwaggins_11, DrGrey_11, Soshi_11, HazuAndZazu_11, Espio_11, Popy_11
• Track 29 : GirlPower_11
• Track 30 : TieDye_10, TaidaOne_11
• Track 31 : Bing_11
• Track 32 : Hajile_11, Wigberry_10
• Track 33 : ClubPenguin_9
• Track 34 : PerroGrande22_25
• Track 35 : Pepy6_021
• Track 36 : Poco6_023
• Track 37 : BetterYeti_19, PestoPenguin_19, Aloe25_19, Gusicorn_19
• Track 38 : OlgasClover_19
• Track 39 : Untouchable_18, Nadmeg_19, ArtetaBall_19, Vardy_19, Crocheter_18, Runhaar_19, ShaggyRogers_19, CWormy_19, Burley_19, Madvan_19, Phepper_19, Dialga_19
• Track 40 : Nithya_19, Duffington_19, Luthien_19, EndAve_19
• Track 41 : OhMyWard_19
• Track 42 : MajinBuu_19, Aflac_19, Jodelie19_19, BluerMoon_19, Figliar_19, TenaciousP_19, Tonaltzin_19
• Track 43 : Glintora_18, Chikenjars_19, Citrus_18, AlainaMarie_19
• Track 44 : Blanky_19, Mossy_20
• Track 45 : Count_10
• Track 46 : Count_15
• Track 47 : Elver_23, JeNeSaisPas_22, Paella_23, Qui_23
• Track 48 : Gandionco_23
• Track 49 : Kureo_24
• Track 50 : Marianna39_24

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 87 of the 138 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_11, Aflac_19, AlainaMarie_19, Aloe25_19, AreFloNak_11, ArtetaBall_19, BarbieDoll_14, Barbonzobean_12, BetterYeti_19, Biscute_11, Blanky_19, BluerMoon_19, Boog_11, Breylor17_12, BronxBay_11, Brunswick_11, Burley_19, CWormy_19, CastorTray_13, Chikenjars_19, Citrus_18, Count_10, Count_15, Crocheter_18, Darby_11, DevitoJr_11, Dialga_19, Dinallo_12, Djungelskog_11, DoctorPepper_11, Duffington_19, Egad_11, ElephantMan_11, Elver_23, EndAve_19, Figliar_19, Giantsbane_12, Glintora_18, Gordon_11, Gusicorn_19, Hemma_13, HerbBucket_10, Inked_13, Issa_11, JeNeSaisPas_22, Jeremy4pt0_11, Jodelie19_19, Kinny_12, Kureo_24, Leathea_10, Lewando_13, Linda_11, LucySwiss_11, Luthien_19, Madvan_19, MajinBuu_19, Makai_12, Marianna39_24, Michelle_11, MiniBagel_11, Mossy_20, MrAaronian_11, Muglass_12, Nadmeg_19, Natasha_12, Nightmare_12, Niktson_11, Nithya_19, Nivinsha_11, OhMyWard_19, OlgasClover_19, Onestar_10, Paella_23, Pepy6_021, PerroGrande22_25, PestoPenguin_19, Phepper_19, Powelldog_12, ProfFrink_11, Qui_23, Raunak_11, Renaldo_15, Runhaar_19, RustyBoy_12, Salk_11, ScienceWizSam_12, ShaggyRogers_19, Shiba_11, Sloopyjoe_11, Spain_10, Sporto_12, Sprinkle_12,

StarLord_11, Stayer_11, Synepsis_10, Tatanka_10, Teacup_11, TenaciousP_19, Tenno_12, Tonaltzin_19, Trustiboi_12, Untouchable_18, Vardy_19, Westerlin_11, Zippen_13,

Genes that have the "Most Annotated" start but do not call it:
• CapnMurica_11, Gandionco_23, Poco6_023,

Genes that do not have the "Most Annotated" start:
• Arcadia_9, BenitoAntonio_9, Benllo_8, Bing_11, Bowling_9, Cheesy_9, CherryBlossom_11, Circum_9, ClubPenguin_9, Correa_9, DrGrey_11, Dynamite_9, Elsa_9, Esketit_11, Espio_11, FidgetOrca_11, FrodoSwaggins_11, GirlPower_11, GoCrazy_8, Hajile_11, Hankly_8, HazuAndZazu_11, Heisenberger_9, Hoshi_11, IceWarrior_11, Indigenous_11, Ingrid_12, JEGGS_9, Jaylociraptor_11, Kardesai_8, KeaneyLin_8, Loretta_12, Madamato_11, Maya_11, Meibysrarus_11, Mooshroom_9, Mudcat_9, Namo_11, NapoleonB_9, Nason_9, OlympicHelado_11, Popy_11, Rima_11, Soshi_11, Spectropatronm_11, Stardom_8, TaidaOne_11, TieDye_10, TonyStarch_11, Tribby_9, Wigberry_10, Xenomorph_8, YoshiYama_8,

Summary by start number:

Start 1:
• Found in 7 of 161 (4.3%) of genes in pham
• Manual Annotations of this start: 7 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DrGrey_11 (BI1), Espio_11 (BI1), FrodoSwaggins_11 (BI1), GirlPower_11 (BI1), HazuAndZazu_11 (BI1), Popy_11 (BI1), Soshi_11 (BI1),

Start 2:
• Found in 2 of 161 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Hajile_11 (BI5), Wigberry_10 (BI5),

Start 3:
• Found in 1 of 161 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ClubPenguin_9 (BI7),

Start 4:
• Found in 23 of 161 (14.3%) of genes in pham
• Manual Annotations of this start: 21 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arcadia_9 (AM), BenitoAntonio_9 (AM), Benllo_8 (AM), Bowling_9 (AM), Cheesy_9 (AM), Circum_9 (AM), Correa_9 (AM), Dynamite_9 (AM), Elsa_9 (AM), GoCrazy_8 (AM), Hankly_8 (AM), Heisenberger_9 (AM), JEGGS_9 (AM), Kardesai_8 (AM), KeaneyLin_8 (AM), Mooshroom_9 (AM), Mudcat_9 (AM), NapoleonB_9 (AM), Nason_9 (AM), Stardom_8 (AM), Tribby_9 (AM), Xenomorph_8 (AM), YoshiYama_8 (AM),

Start 5:
• Found in 6 of 161 (3.7%) of genes in pham

• No Manual Annotations of this start.
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Gandionco_23 (FK),

Start 6:
• Found in 1 of 161 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CapnMurica_11 (AU1),

Start 7:
• Found in 2 of 161 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 138
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ingrid_12 (AU3), Loretta_12 (AU3),

Start 8:
• Found in 2 of 161 (1.2%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Poco6_023 (CC),

Start 10:
• Found in 108 of 161 (67.1%) of genes in pham
• Manual Annotations of this start: 87 of 138
• Called 97.2% of time when present
• Phage (with cluster) where this start called: Acai_11 (AU1), Aflac_19 (DJ), AlainaMarie_19 (DJ), Aloe25_19 (DJ), AreFloNak_11 (AU1), ArtetaBall_19 (DJ), BarbieDoll_14 (AU6), Barbonzobean_12 (AU6), BetterYeti_19 (DJ), Biscute_11 (AU6), Blanky_19 (DJ), BluerMoon_19 (DJ), Boog_11 (AW), Breylor17_12 (AU1), BronxBay_11 (AW), Brunswick_11 (AU1), Burley_19 (DJ), CWormy_19 (DJ), CastorTray_13 (AU1), Chikenjars_19 (DJ), Citrus_18 (DJ), Count_10 (EL), Count_15 (EL), Crocheter_18 (DJ), Darby_11 (AU1), DevitoJr_11 (AU1), Dialga_19 (DJ), Dinallo_12 (AU1), Djungelskog_11 (AW), DoctorPepper_11 (AW), Duffington_19 (DJ), Egad_11 (AW), ElephantMan_11 (AU1), Elver_23 (FK), EndAve_19 (DJ), Figliar_19 (DJ), Giantsbane_12 (AU2), Glintora_18 (DJ), Gordon_11 (AU1), Gusicorn_19 (DJ), Hemma_13 (AU1), HerbBucket_10 (AW), Inked_13 (AU7), Issa_11 (AU1), JeNeSaisPas_22 (FK), Jeremy4pt0_11 (AW), Jodelie19_19 (DJ), Kinny_12 (AU6), Kureo_24 (FK), Leathea_10 (AU6), Lewando_13 (AU6), Linda_11 (AW), LucySwiss_11 (AU1), Luthien_19 (DJ), Madvan_19 (DJ), MajinBuu_19 (DJ), Makai_12 (AU5), Marianna39_24 (FK), Michelle_11 (AW), MiniBagel_11 (AU1), Mossy_20 (DJ), MrAaronian_11 (AW), Muglass_12 (AU6), Nadmeg_19 (DJ), Natasha_12 (AW), Nightmare_12 (AU1), Niktson_11 (AU1), Nithya_19 (DJ), Nivinsha_11 (AU1), OhMyWard_19 (DJ), OlgasClover_19 (DJ), Onestar_10 (AW), Paella_23 (FK), Pepy6_021 (CC), PerroGrande22_25 (CC), PestoPenguin_19 (DJ), Phepper_19 (DJ), Powelldog_12 (AW), ProfFrink_11 (AW), Qui_23 (FK), Raunak_11 (AW), Renaldo_15 (AU6), Runhaar_19 (DJ), RustyBoy_12 (AW), Salk_11 (AW), ScienceWizSam_12 (AU1), ShaggyRogers_19 (DJ), Shiba_11 (AW), Sloopyjoe_11 (AW), Spain_10 (AW), Sporto_12 (AW), Sprinkle_12 (AW), StarLord_11 (AW), Stayer_11 (AW), Synepsis_10 (AU1), Tatanka_10 (AU1), Teacup_11 (AU1), TenaciousP_19 (DJ), Tenno_12 (AU1), Tonaltzin_19 (DJ), Trustiboi_12 (AU1), Untouchable_18 (DJ), Vardy_19 (DJ), Westerlin_11 (AU1), Zippen_13 (AU7),

Start 12:
• Found in 41 of 161 (25.5%) of genes in pham
• Manual Annotations of this start: 17 of 138
• Called 41.5% of time when present
• Phage (with cluster) where this start called: CherryBlossom_11 (BI1), Esketit_11 (BI1), FidgetOrca_11 (BI1), Hoshi_11 (BI1), IceWarrior_11 (BI1), Indigenous_11 (BI1), Jaylociraptor_11 (BI1), Madamato_11 (BI1), Maya_11 (BI1), Meibysrarus_11 (BI1), Namo_11 (BI1), OlympicHelado_11 (BI1), Rima_11 (BI1), Spectropatronm_11 (BI1), TaidaOne_11 (BI1), TieDye_10 (BI1), TonyStarch_11 (BI1),

Start 17:
• Found in 161 of 161 (100.0%) of genes in pham
• Manual Annotations of this start: 1 of 138
• Called 0.6% of time when present
• Phage (with cluster) where this start called: Bing_11 (BI5),

Summary by clusters:

There are 15 clusters represented in this pham: EL, BI5, DJ, AU7, CC, AM, AU1, AU3, AU2, AU5, AW, AU6, BI7, FK, BI1,

Info for manual annotations of cluster AM:
•Start number 4 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU1:
•Start number 6 was manually annotated 1 time for cluster AU1.
•Start number 10 was manually annotated 20 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 10 was manually annotated 1 time for cluster AU2.

Info for manual annotations of cluster AU3:
•Start number 7 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU5:
•Start number 10 was manually annotated 1 time for cluster AU5.

Info for manual annotations of cluster AU6:
•Start number 10 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster AU7:
•Start number 10 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 10 was manually annotated 20 times for cluster AW.

Info for manual annotations of cluster BI1:
•Start number 1 was manually annotated 7 times for cluster BI1.
•Start number 12 was manually annotated 17 times for cluster BI1.

Info for manual annotations of cluster BI5:
•Start number 2 was manually annotated 1 time for cluster BI5.
•Start number 17 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI7:
•Start number 3 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster CC:
•Start number 10 was manually annotated 1 time for cluster CC.

Info for manual annotations of cluster DJ:
•Start number 10 was manually annotated 31 times for cluster DJ.

Info for manual annotations of cluster EL:
•Start number 10 was manually annotated 2 times for cluster EL.

Info for manual annotations of cluster FK:
•Start number 10 was manually annotated 4 times for cluster FK.

Gene Information:

Gene: Acai_11 Start: 7319, Stop: 7855, Start Num: 10
Candidate Starts for Acai_11:
(Start: 10 @7319 has 87 MA's), (14, 7343), (Start: 17 @7364 has 1 MA's), (21, 7460), (25, 7565), (26, 7580), (30, 7643), (40, 7730), (42, 7760),

Gene: Aflac_19 Start: 13092, Stop: 13640, Start Num: 10
Candidate Starts for Aflac_19:
(Start: 10 @13092 has 87 MA's), (Start: 17 @13140 has 1 MA's), (21, 13248), (26, 13368), (32, 13461), (33, 13482), (34, 13488), (42, 13548), (44, 13566), (46, 13575), (52, 13617),

Gene: AlainaMarie_19 Start: 13082, Stop: 13630, Start Num: 10
Candidate Starts for AlainaMarie_19:
(Start: 10 @13082 has 87 MA's), (Start: 17 @13130 has 1 MA's), (21, 13238), (24, 13289), (26, 13358), (32, 13451), (33, 13472), (34, 13478), (42, 13538), (44, 13556), (46, 13565), (52, 13607),

Gene: Aloe25_19 Start: 12882, Stop: 13424, Start Num: 10
Candidate Starts for Aloe25_19:
(Start: 10 @12882 has 87 MA's), (Start: 17 @12930 has 1 MA's), (21, 13035), (26, 13152), (32, 13245), (42, 13332), (44, 13350), (52, 13401),

Gene: Arcadia_9 Start: 6000, Stop: 6509, Start Num: 4
Candidate Starts for Arcadia_9:
(Start: 4 @6000 has 21 MA's), (Start: 12 @6030 has 17 MA's), (Start: 17 @6066 has 1 MA's), (21, 6159), (34, 6396), (48, 6495),

Gene: AreFloNak_11 Start: 7203, Stop: 7739, Start Num: 10
Candidate Starts for AreFloNak_11:
(Start: 10 @7203 has 87 MA's), (14, 7227), (15, 7239), (Start: 17 @7248 has 1 MA's), (21, 7344), (26, 7464), (30, 7527), (40, 7614), (42, 7644),

Gene: ArtetaBall_19 Start: 11810, Stop: 12352, Start Num: 10
Candidate Starts for ArtetaBall_19:

(Start: 10 @11810 has 87 MA's), (Start: 17 @11858 has 1 MA's), (21, 11963), (26, 12080), (32, 12173), (34, 12200), (42, 12260), (44, 12278), (52, 12329),

Gene: BarbieDoll_14 Start: 7762, Stop: 8319, Start Num: 10
Candidate Starts for BarbieDoll_14:
(Start: 10 @7762 has 87 MA's), (Start: 17 @7807 has 1 MA's), (21, 7903), (32, 8116), (36, 8155), (40, 8173), (43, 8209),

Gene: Barbonzobean_12 Start: 7458, Stop: 8015, Start Num: 10
Candidate Starts for Barbonzobean_12:
(Start: 10 @7458 has 87 MA's), (Start: 17 @7503 has 1 MA's), (21, 7599), (32, 7812), (36, 7851), (40, 7869), (43, 7905),

Gene: BenitoAntonio_9 Start: 5608, Stop: 6117, Start Num: 4
Candidate Starts for BenitoAntonio_9:
(Start: 4 @5608 has 21 MA's), (Start: 12 @5638 has 17 MA's), (Start: 17 @5674 has 1 MA's), (21, 5767), (34, 6004), (48, 6103),

Gene: Benllo_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Benllo_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: BetterYeti_19 Start: 12882, Stop: 13424, Start Num: 10
Candidate Starts for BetterYeti_19:
(Start: 10 @12882 has 87 MA's), (Start: 17 @12930 has 1 MA's), (21, 13035), (26, 13152), (32, 13245), (42, 13332), (44, 13350), (52, 13401),

Gene: Bing_11 Start: 5895, Stop: 6389, Start Num: 17
Candidate Starts for Bing_11:
(Start: 17 @5895 has 1 MA's), (21, 5991), (22, 6027), (26, 6111), (53, 6375),

Gene: Biscute_11 Start: 7458, Stop: 8015, Start Num: 10
Candidate Starts for Biscute_11:
(Start: 10 @7458 has 87 MA's), (Start: 17 @7503 has 1 MA's), (21, 7599), (32, 7812), (36, 7851), (40, 7869), (43, 7905),

Gene: Blanky_19 Start: 14082, Stop: 14633, Start Num: 10
Candidate Starts for Blanky_19:
(Start: 10 @14082 has 87 MA's), (13, 14106), (Start: 17 @14130 has 1 MA's), (21, 14238), (26, 14358), (33, 14472), (34, 14478), (42, 14538), (47, 14574), (50, 14598), (52, 14610), (54, 14625),

Gene: BluerMoon_19 Start: 13086, Stop: 13634, Start Num: 10
Candidate Starts for BluerMoon_19:
(Start: 10 @13086 has 87 MA's), (Start: 17 @13134 has 1 MA's), (21, 13242), (26, 13362), (32, 13455), (33, 13476), (34, 13482), (42, 13542), (44, 13560), (46, 13569), (52, 13611),

Gene: Boog_11 Start: 6417, Stop: 6947, Start Num: 10
Candidate Starts for Boog_11:
(Start: 10 @6417 has 87 MA's), (Start: 17 @6465 has 1 MA's), (19, 6519), (21, 6558), (28, 6723), (40, 6825), (43, 6861), (45, 6879),

Gene: Bowling_9 Start: 5610, Stop: 6119, Start Num: 4

Candidate Starts for Bowling_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Breylor17_12 Start: 7871, Stop: 8407, Start Num: 10
Candidate Starts for Breylor17_12:
(Start: 10 @7871 has 87 MA's), (14, 7895), (15, 7907), (Start: 17 @7916 has 1 MA's), (21, 8012), (26, 8132), (30, 8195), (40, 8282), (42, 8312),

Gene: BronxBay_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for BronxBay_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Brunswick_11 Start: 7315, Stop: 7851, Start Num: 10
Candidate Starts for Brunswick_11:
(Start: 10 @7315 has 87 MA's), (14, 7339), (Start: 17 @7360 has 1 MA's), (21, 7456), (26, 7576), (30, 7639), (40, 7726), (42, 7756),

Gene: Burley_19 Start: 12850, Stop: 13392, Start Num: 10
Candidate Starts for Burley_19:
(Start: 10 @12850 has 87 MA's), (Start: 17 @12898 has 1 MA's), (21, 13003), (26, 13120), (32, 13213), (34, 13240), (42, 13300), (44, 13318), (52, 13369),

Gene: CWormy_19 Start: 12549, Stop: 13091, Start Num: 10
Candidate Starts for CWormy_19:
(Start: 10 @12549 has 87 MA's), (Start: 17 @12597 has 1 MA's), (21, 12702), (26, 12819), (32, 12912), (34, 12939), (42, 12999), (44, 13017), (52, 13068),

Gene: CapnMurica_11 Start: 8409, Stop: 8951, Start Num: 6
Candidate Starts for CapnMurica_11:
(Start: 6 @8409 has 1 MA's), (Start: 10 @8415 has 87 MA's), (14, 8439), (Start: 17 @8460 has 1 MA's), (21, 8556), (26, 8676), (30, 8739), (40, 8826), (42, 8856),

Gene: CastorTray_13 Start: 7722, Stop: 8258, Start Num: 10
Candidate Starts for CastorTray_13:
(Start: 10 @7722 has 87 MA's), (14, 7746), (15, 7758), (Start: 17 @7767 has 1 MA's), (21, 7863), (26, 7983), (30, 8046), (40, 8133), (42, 8163),

Gene: Cheesy_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Cheesy_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: CherryBlossom_11 Start: 6323, Stop: 6850, Start Num: 12
Candidate Starts for CherryBlossom_11:
(Start: 12 @6323 has 17 MA's), (Start: 17 @6359 has 1 MA's), (18, 6395), (21, 6455), (26, 6572), (37, 6707), (51, 6824), (53, 6836),

Gene: Chikenjars_19 Start: 13082, Stop: 13630, Start Num: 10
Candidate Starts for Chikenjars_19:
(Start: 10 @13082 has 87 MA's), (Start: 17 @13130 has 1 MA's), (21, 13238), (24, 13289), (26, 13358), (32, 13451), (33, 13472), (34, 13478), (42, 13538), (44, 13556), (46, 13565), (52, 13607),

Gene: Circum_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Circum_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Citrus_18 Start: 13089, Stop: 13637, Start Num: 10
Candidate Starts for Citrus_18:
(Start: 10 @13089 has 87 MA's), (Start: 17 @13137 has 1 MA's), (21, 13245), (24, 13296), (26, 13365), (32, 13458), (33, 13479), (34, 13485), (42, 13545), (44, 13563), (46, 13572), (52, 13614),

Gene: ClubPenguin_9 Start: 6264, Stop: 6821, Start Num: 3
Candidate Starts for ClubPenguin_9:
(Start: 3 @6264 has 1 MA's), (9, 6294), (Start: 17 @6327 has 1 MA's), (21, 6423), (26, 6543), (49, 6777), (53, 6807),

Gene: Correa_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Correa_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Count_10 Start: 3979, Stop: 4407, Start Num: 10
Candidate Starts for Count_10:
(Start: 10 @3979 has 87 MA's), (Start: 17 @4024 has 1 MA's),

Gene: Count_15 Start: 8040, Stop: 8570, Start Num: 10
Candidate Starts for Count_15:
(Start: 10 @8040 has 87 MA's), (Start: 17 @8088 has 1 MA's), (21, 8184),

Gene: Crocheter_18 Start: 11810, Stop: 12352, Start Num: 10
Candidate Starts for Crocheter_18:
(Start: 10 @11810 has 87 MA's), (Start: 17 @11858 has 1 MA's), (21, 11963), (26, 12080), (32, 12173), (34, 12200), (42, 12260), (44, 12278), (52, 12329),

Gene: Darby_11 Start: 7185, Stop: 7721, Start Num: 10
Candidate Starts for Darby_11:
(Start: 10 @7185 has 87 MA's), (14, 7209), (15, 7221), (Start: 17 @7230 has 1 MA's), (21, 7326), (26, 7446), (30, 7509), (40, 7596), (42, 7626),

Gene: DevitoJr_11 Start: 7327, Stop: 7863, Start Num: 10
Candidate Starts for DevitoJr_11:
(Start: 10 @7327 has 87 MA's), (14, 7351), (15, 7363), (Start: 17 @7372 has 1 MA's), (21, 7468), (26, 7588), (30, 7651), (40, 7738), (42, 7768),

Gene: Dialga_19 Start: 11832, Stop: 12374, Start Num: 10
Candidate Starts for Dialga_19:
(Start: 10 @11832 has 87 MA's), (Start: 17 @11880 has 1 MA's), (21, 11985), (26, 12102), (32, 12195), (34, 12222), (42, 12282), (44, 12300), (52, 12351),

Gene: Dinallo_12 Start: 8415, Stop: 8951, Start Num: 10
Candidate Starts for Dinallo_12:
(Start: 10 @8415 has 87 MA's), (14, 8439), (Start: 17 @8460 has 1 MA's), (21, 8556), (26, 8676), (30, 8739), (40, 8826), (42, 8856),

Gene: Djungelskog_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Djungelskog_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: DoctorPepper_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for DoctorPepper_11:
(Start: 10 @6416 has 87 MA's), (15, 6455), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: DrGrey_11 Start: 6705, Stop: 7352, Start Num: 1
Candidate Starts for DrGrey_11:
(Start: 1 @6705 has 7 MA's), (Start: 17 @6861 has 1 MA's), (18, 6897), (21, 6957), (26, 7074), (37, 7209), (51, 7326), (53, 7338),

Gene: Duffington_19 Start: 13067, Stop: 13615, Start Num: 10
Candidate Starts for Duffington_19:
(Start: 10 @13067 has 87 MA's), (Start: 17 @13115 has 1 MA's), (21, 13223), (24, 13274), (26, 13343), (32, 13436), (33, 13457), (34, 13463), (41, 13514), (42, 13523), (44, 13541), (46, 13550), (52, 13592),

Gene: Dynamite_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Dynamite_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Egad_11 Start: 6417, Stop: 6947, Start Num: 10
Candidate Starts for Egad_11:
(Start: 10 @6417 has 87 MA's), (Start: 17 @6465 has 1 MA's), (19, 6519), (21, 6558), (28, 6723), (40, 6825), (43, 6861), (45, 6879),

Gene: ElephantMan_11 Start: 7886, Stop: 8422, Start Num: 10
Candidate Starts for ElephantMan_11:
(Start: 10 @7886 has 87 MA's), (Start: 17 @7931 has 1 MA's), (21, 8027), (26, 8147), (30, 8210), (40, 8297), (42, 8327),

Gene: Elsa_9 Start: 6000, Stop: 6509, Start Num: 4
Candidate Starts for Elsa_9:
(Start: 4 @6000 has 21 MA's), (Start: 12 @6030 has 17 MA's), (Start: 17 @6066 has 1 MA's), (21, 6159), (34, 6396), (48, 6495),

Gene: Elver_23 Start: 12959, Stop: 13495, Start Num: 10
Candidate Starts for Elver_23:
(5, 12950), (Start: 10 @12959 has 87 MA's), (16, 13001), (Start: 17 @13007 has 1 MA's), (21, 13106), (22, 13142), (26, 13223), (38, 13361), (42, 13403), (51, 13469),

Gene: EndAve_19 Start: 13082, Stop: 13630, Start Num: 10
Candidate Starts for EndAve_19:
(Start: 10 @13082 has 87 MA's), (Start: 17 @13130 has 1 MA's), (21, 13238), (24, 13289), (26, 13358), (32, 13451), (33, 13472), (34, 13478), (41, 13529), (42, 13538), (44, 13556), (46, 13565), (52, 13607),

Gene: Esketit_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Esketit_11:

(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Espio_11 Start: 6706, Stop: 7353, Start Num: 1
Candidate Starts for Espio_11:
(Start: 1 @6706 has 7 MA's), (Start: 17 @6862 has 1 MA's), (18, 6898), (21, 6958), (26, 7075), (37, 7210), (51, 7327), (53, 7339),

Gene: FidgetOrca_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for FidgetOrca_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Figliar_19 Start: 13092, Stop: 13640, Start Num: 10
Candidate Starts for Figliar_19:
(Start: 10 @13092 has 87 MA's), (Start: 17 @13140 has 1 MA's), (21, 13248), (26, 13368), (32, 13461), (33, 13482), (34, 13488), (42, 13548), (44, 13566), (46, 13575), (52, 13617),

Gene: FrodoSwaggins_11 Start: 6705, Stop: 7352, Start Num: 1
Candidate Starts for FrodoSwaggins_11:
(Start: 1 @6705 has 7 MA's), (Start: 17 @6861 has 1 MA's), (18, 6897), (21, 6957), (26, 7074), (37, 7209), (51, 7326), (53, 7338),

Gene: Gandionco_23 Start: 13452, Stop: 13997, Start Num: 5
Candidate Starts for Gandionco_23:
(5, 13452), (Start: 10 @13461 has 87 MA's), (15, 13500), (16, 13503), (Start: 17 @13509 has 1 MA's), (21, 13608), (22, 13644), (26, 13725), (38, 13863), (42, 13905), (51, 13971),

Gene: Giantsbane_12 Start: 7730, Stop: 8269, Start Num: 10
Candidate Starts for Giantsbane_12:
(Start: 10 @7730 has 87 MA's), (15, 7769), (Start: 17 @7778 has 1 MA's), (21, 7874), (29, 8045), (30, 8057), (40, 8144), (42, 8174), (44, 8192),

Gene: GirlPower_11 Start: 8228, Stop: 8878, Start Num: 1
Candidate Starts for GirlPower_11:
(Start: 1 @8228 has 7 MA's), (Start: 17 @8384 has 1 MA's), (21, 8480), (25, 8585), (26, 8600), (37, 8735), (51, 8852), (53, 8864),

Gene: Glintora_18 Start: 13058, Stop: 13606, Start Num: 10
Candidate Starts for Glintora_18:
(Start: 10 @13058 has 87 MA's), (Start: 17 @13106 has 1 MA's), (21, 13214), (24, 13265), (26, 13334), (32, 13427), (33, 13448), (34, 13454), (42, 13514), (44, 13532), (46, 13541), (52, 13583),

Gene: GoCrazy_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for GoCrazy_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Gordon_11 Start: 8451, Stop: 8987, Start Num: 10
Candidate Starts for Gordon_11:
(Start: 10 @8451 has 87 MA's), (14, 8475), (15, 8487), (Start: 17 @8496 has 1 MA's), (21, 8592), (26, 8712), (30, 8775), (40, 8862), (42, 8892),

Gene: Gusicorn_19 Start: 12882, Stop: 13424, Start Num: 10
Candidate Starts for Gusicorn_19:
(Start: 10 @12882 has 87 MA's), (Start: 17 @12930 has 1 MA's), (21, 13035), (26, 13152), (32, 13245), (42, 13332), (44, 13350), (52, 13401),

Gene: Hajile_11 Start: 5374, Stop: 5934, Start Num: 2
Candidate Starts for Hajile_11:
(Start: 2 @5374 has 1 MA's), (Start: 17 @5440 has 1 MA's), (21, 5536), (26, 5656), (53, 5920),

Gene: Hankly_8 Start: 5634, Stop: 6143, Start Num: 4
Candidate Starts for Hankly_8:
(Start: 4 @5634 has 21 MA's), (Start: 12 @5664 has 17 MA's), (Start: 17 @5700 has 1 MA's), (21, 5793), (34, 6030), (48, 6129),

Gene: HazuAndZazu_11 Start: 6705, Stop: 7352, Start Num: 1
Candidate Starts for HazuAndZazu_11:
(Start: 1 @6705 has 7 MA's), (Start: 17 @6861 has 1 MA's), (18, 6897), (21, 6957), (26, 7074), (37, 7209), (51, 7326), (53, 7338),

Gene: Heisenberger_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Heisenberger_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Hemma_13 Start: 7774, Stop: 8310, Start Num: 10
Candidate Starts for Hemma_13:
(Start: 10 @7774 has 87 MA's), (Start: 17 @7819 has 1 MA's), (21, 7915), (22, 7951), (40, 8185),

Gene: HerbBucket_10 Start: 6417, Stop: 6947, Start Num: 10
Candidate Starts for HerbBucket_10:
(Start: 10 @6417 has 87 MA's), (Start: 17 @6465 has 1 MA's), (19, 6519), (21, 6558), (28, 6723), (40, 6825), (43, 6861), (45, 6879),

Gene: Hoshi_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Hoshi_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: IceWarrior_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for IceWarrior_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Indigenous_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Indigenous_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Ingrid_12 Start: 8171, Stop: 8713, Start Num: 7
Candidate Starts for Ingrid_12:
(Start: 7 @8171 has 2 MA's), (14, 8198), (Start: 17 @8219 has 1 MA's), (21, 8318), (22, 8354), (26, 8438), (30, 8501), (40, 8588), (42, 8618),

Gene: Inked_13 Start: 7950, Stop: 8486, Start Num: 10
Candidate Starts for Inked_13:
(Start: 10 @7950 has 87 MA's), (13, 7971), (14, 7974), (Start: 17 @7995 has 1 MA's), (21, 8091), (22, 8127), (26, 8211), (30, 8274), (40, 8361), (42, 8391),

Gene: Issa_11 Start: 7161, Stop: 7697, Start Num: 10
Candidate Starts for Issa_11:
(Start: 10 @7161 has 87 MA's), (14, 7185), (15, 7197), (Start: 17 @7206 has 1 MA's), (21, 7302), (26, 7422), (30, 7485), (40, 7572), (42, 7602),

Gene: JEGGS_9 Start: 5612, Stop: 6121, Start Num: 4
Candidate Starts for JEGGS_9:
(Start: 4 @5612 has 21 MA's), (Start: 12 @5642 has 17 MA's), (Start: 17 @5678 has 1 MA's), (21, 5771), (34, 6008), (48, 6107),

Gene: Jaylociraptor_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Jaylociraptor_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: JeNeSaisPas_22 Start: 13494, Stop: 14030, Start Num: 10
Candidate Starts for JeNeSaisPas_22:
(5, 13485), (Start: 10 @13494 has 87 MA's), (16, 13536), (Start: 17 @13542 has 1 MA's), (21, 13641), (22, 13677), (26, 13758), (38, 13896), (42, 13938), (51, 14004),

Gene: Jeremy4pt0_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Jeremy4pt0_11:
(Start: 10 @6416 has 87 MA's), (15, 6455), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Jodelie19_19 Start: 13086, Stop: 13634, Start Num: 10
Candidate Starts for Jodelie19_19:
(Start: 10 @13086 has 87 MA's), (Start: 17 @13134 has 1 MA's), (21, 13242), (26, 13362), (32, 13455), (33, 13476), (34, 13482), (42, 13542), (44, 13560), (46, 13569), (52, 13611),

Gene: Kardesai_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Kardesai_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: KeaneyLin_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for KeaneyLin_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Kinny_12 Start: 7762, Stop: 8319, Start Num: 10
Candidate Starts for Kinny_12:
(Start: 10 @7762 has 87 MA's), (Start: 17 @7807 has 1 MA's), (21, 7903), (32, 8116), (36, 8155), (40, 8173), (43, 8209),

Gene: Kureo_24 Start: 13311, Stop: 13847, Start Num: 10
Candidate Starts for Kureo_24:

(Start: 10 @13311 has 87 MA's), (15, 13350), (16, 13353), (Start: 17 @13359 has 1 MA's), (21, 13458), (22, 13494), (26, 13575), (38, 13713), (42, 13755), (51, 13821),

Gene: Leathea_10 Start: 6005, Stop: 6541, Start Num: 10
Candidate Starts for Leathea_10:
(Start: 10 @6005 has 87 MA's), (Start: 17 @6050 has 1 MA's), (21, 6146), (35, 6392), (37, 6401), (42, 6446),

Gene: Lewando_13 Start: 7761, Stop: 8318, Start Num: 10
Candidate Starts for Lewando_13:
(Start: 10 @7761 has 87 MA's), (Start: 17 @7806 has 1 MA's), (21, 7902), (32, 8115), (40, 8172), (43, 8208),

Gene: Linda_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Linda_11:
(Start: 10 @6416 has 87 MA's), (15, 6455), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Loretta_12 Start: 8171, Stop: 8713, Start Num: 7
Candidate Starts for Loretta_12:
(Start: 7 @8171 has 2 MA's), (14, 8198), (Start: 17 @8219 has 1 MA's), (21, 8318), (22, 8354), (26, 8438), (30, 8501), (40, 8588), (42, 8618),

Gene: LucySwiss_11 Start: 7180, Stop: 7716, Start Num: 10
Candidate Starts for LucySwiss_11:
(Start: 10 @7180 has 87 MA's), (14, 7204), (15, 7216), (Start: 17 @7225 has 1 MA's), (21, 7321), (26, 7441), (30, 7504), (40, 7591), (42, 7621),

Gene: Luthien_19 Start: 13083, Stop: 13631, Start Num: 10
Candidate Starts for Luthien_19:
(Start: 10 @13083 has 87 MA's), (Start: 17 @13131 has 1 MA's), (21, 13239), (24, 13290), (26, 13359), (32, 13452), (33, 13473), (34, 13479), (41, 13530), (42, 13539), (44, 13557), (46, 13566), (52, 13608),

Gene: Madamato_11 Start: 6302, Stop: 6832, Start Num: 12
Candidate Starts for Madamato_11:
(11, 6299), (Start: 12 @6302 has 17 MA's), (Start: 17 @6338 has 1 MA's), (21, 6434), (26, 6554), (38, 6692), (51, 6806), (53, 6818),

Gene: Madvan_19 Start: 12883, Stop: 13425, Start Num: 10
Candidate Starts for Madvan_19:
(Start: 10 @12883 has 87 MA's), (Start: 17 @12931 has 1 MA's), (21, 13036), (26, 13153), (32, 13246), (34, 13273), (42, 13333), (44, 13351), (52, 13402),

Gene: MajinBuu_19 Start: 13087, Stop: 13635, Start Num: 10
Candidate Starts for MajinBuu_19:
(Start: 10 @13087 has 87 MA's), (Start: 17 @13135 has 1 MA's), (21, 13243), (26, 13363), (32, 13456), (33, 13477), (34, 13483), (42, 13543), (44, 13561), (46, 13570), (52, 13612),

Gene: Makai_12 Start: 7858, Stop: 8394, Start Num: 10
Candidate Starts for Makai_12:
(Start: 10 @7858 has 87 MA's), (Start: 17 @7903 has 1 MA's), (21, 7999), (26, 8119), (30, 8182), (40, 8269), (42, 8299),

Gene: Marianna39_24 Start: 13461, Stop: 13997, Start Num: 10
Candidate Starts for Marianna39_24:
(5, 13452), (Start: 10 @13461 has 87 MA's), (15, 13500), (16, 13503), (Start: 17 @13509 has 1 MA's), (21, 13608), (22, 13644), (26, 13725), (38, 13863), (42, 13905), (51, 13971),

Gene: Maya_11 Start: 6314, Stop: 6841, Start Num: 12
Candidate Starts for Maya_11:
(Start: 12 @6314 has 17 MA's), (Start: 17 @6350 has 1 MA's), (18, 6386), (21, 6446), (26, 6563), (37, 6698), (51, 6815), (53, 6827),

Gene: Meibysrarus_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Meibysrarus_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Michelle_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Michelle_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: MiniBagel_11 Start: 8406, Stop: 8942, Start Num: 10
Candidate Starts for MiniBagel_11:
(Start: 10 @8406 has 87 MA's), (14, 8430), (Start: 17 @8451 has 1 MA's), (21, 8547), (26, 8667), (30, 8730), (40, 8817), (42, 8847),

Gene: Mooshroom_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Mooshroom_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Mossy_20 Start: 14297, Stop: 14848, Start Num: 10
Candidate Starts for Mossy_20:
(Start: 10 @14297 has 87 MA's), (13, 14321), (Start: 17 @14345 has 1 MA's), (21, 14453), (26, 14573), (33, 14687), (34, 14693), (42, 14753), (47, 14789), (50, 14813), (52, 14825), (54, 14840),

Gene: MrAaronian_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for MrAaronian_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Mudcat_9 Start: 5611, Stop: 6120, Start Num: 4
Candidate Starts for Mudcat_9:
(Start: 4 @5611 has 21 MA's), (Start: 12 @5641 has 17 MA's), (Start: 17 @5677 has 1 MA's), (21, 5770), (34, 6007), (48, 6106),

Gene: Muglass_12 Start: 7458, Stop: 8015, Start Num: 10
Candidate Starts for Muglass_12:
(Start: 10 @7458 has 87 MA's), (Start: 17 @7503 has 1 MA's), (21, 7599), (32, 7812), (36, 7851), (40, 7869), (43, 7905),

Gene: Nadmeg_19 Start: 12884, Stop: 13426, Start Num: 10
Candidate Starts for Nadmeg_19:

(Start: 10 @12884 has 87 MA's), (Start: 17 @12932 has 1 MA's), (21, 13037), (26, 13154), (32, 13247), (34, 13274), (42, 13334), (44, 13352), (52, 13403),

Gene: Namo_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Namo_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: NapoleonB_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for NapoleonB_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Nason_9 Start: 6000, Stop: 6509, Start Num: 4
Candidate Starts for Nason_9:
(Start: 4 @6000 has 21 MA's), (Start: 12 @6030 has 17 MA's), (Start: 17 @6066 has 1 MA's), (21, 6159), (34, 6396), (48, 6495),

Gene: Natasha_12 Start: 7531, Stop: 8061, Start Num: 10
Candidate Starts for Natasha_12:
(Start: 10 @7531 has 87 MA's), (Start: 17 @7579 has 1 MA's), (21, 7672), (24, 7723), (40, 7939), (43, 7975),

Gene: Nightmare_12 Start: 7725, Stop: 8261, Start Num: 10
Candidate Starts for Nightmare_12:
(Start: 10 @7725 has 87 MA's), (14, 7749), (15, 7761), (Start: 17 @7770 has 1 MA's), (21, 7866), (26, 7986), (30, 8049), (40, 8136), (42, 8166),

Gene: Niktson_11 Start: 7886, Stop: 8422, Start Num: 10
Candidate Starts for Niktson_11:
(Start: 10 @7886 has 87 MA's), (Start: 17 @7931 has 1 MA's), (21, 8027), (26, 8147), (30, 8210), (40, 8297), (42, 8327),

Gene: Nithya_19 Start: 13082, Stop: 13630, Start Num: 10
Candidate Starts for Nithya_19:
(Start: 10 @13082 has 87 MA's), (Start: 17 @13130 has 1 MA's), (21, 13238), (24, 13289), (26, 13358), (32, 13451), (33, 13472), (34, 13478), (41, 13529), (42, 13538), (44, 13556), (46, 13565), (52, 13607),

Gene: Nivinsha_11 Start: 7203, Stop: 7739, Start Num: 10
Candidate Starts for Nivinsha_11:
(Start: 10 @7203 has 87 MA's), (14, 7227), (15, 7239), (Start: 17 @7248 has 1 MA's), (21, 7344), (26, 7464), (30, 7527), (40, 7614), (42, 7644),

Gene: OhMyWard_19 Start: 13629, Stop: 14171, Start Num: 10
Candidate Starts for OhMyWard_19:
(Start: 10 @13629 has 87 MA's), (13, 13653), (Start: 17 @13677 has 1 MA's), (21, 13782), (22, 13818), (26, 13899), (32, 13992), (34, 14019), (42, 14079), (44, 14097), (54, 14163),

Gene: OlgasClover_19 Start: 13815, Stop: 14363, Start Num: 10
Candidate Starts for OlgasClover_19:
(Start: 10 @13815 has 87 MA's), (Start: 17 @13863 has 1 MA's), (21, 13971), (26, 14091), (32, 14184), (33, 14205), (42, 14271), (44, 14289), (46, 14298), (52, 14340),

Gene: OlympicHelado_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for OlympicHelado_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Onestar_10 Start: 6438, Stop: 6965, Start Num: 10
Candidate Starts for Onestar_10:
(Start: 10 @6438 has 87 MA's), (Start: 17 @6483 has 1 MA's), (19, 6537), (21, 6576), (31, 6765), (45, 6897),

Gene: Paella_23 Start: 12961, Stop: 13497, Start Num: 10
Candidate Starts for Paella_23:
(5, 12952), (Start: 10 @12961 has 87 MA's), (16, 13003), (Start: 17 @13009 has 1 MA's), (21, 13108), (22, 13144), (26, 13225), (38, 13363), (42, 13405), (51, 13471),

Gene: Pepy6_021 Start: 19396, Stop: 19935, Start Num: 10
Candidate Starts for Pepy6_021:
(Start: 10 @19396 has 87 MA's), (Start: 17 @19441 has 1 MA's), (21, 19537), (26, 19654), (34, 19774), (36, 19786), (43, 19840), (47, 19870), (52, 19912),

Gene: PerroGrande22_25 Start: 20722, Stop: 21264, Start Num: 10
Candidate Starts for PerroGrande22_25:
(8, 20719), (Start: 10 @20722 has 87 MA's), (Start: 17 @20770 has 1 MA's), (21, 20866), (26, 20983), (34, 21103), (46, 21190), (47, 21199), (52, 21241),

Gene: PestoPenguin_19 Start: 12882, Stop: 13424, Start Num: 10
Candidate Starts for PestoPenguin_19:
(Start: 10 @12882 has 87 MA's), (Start: 17 @12930 has 1 MA's), (21, 13035), (26, 13152), (32, 13245), (42, 13332), (44, 13350), (52, 13401),

Gene: Phepper_19 Start: 12882, Stop: 13424, Start Num: 10
Candidate Starts for Phepper_19:
(Start: 10 @12882 has 87 MA's), (Start: 17 @12930 has 1 MA's), (21, 13035), (26, 13152), (32, 13245), (34, 13272), (42, 13332), (44, 13350), (52, 13401),

Gene: Poco6_023 Start: 21412, Stop: 21957, Start Num: 8
Candidate Starts for Poco6_023:
(8, 21412), (Start: 10 @21415 has 87 MA's), (Start: 17 @21463 has 1 MA's), (21, 21559), (26, 21676), (34, 21796), (46, 21883), (47, 21892), (52, 21934),

Gene: Popy_11 Start: 6705, Stop: 7352, Start Num: 1
Candidate Starts for Popy_11:
(Start: 1 @6705 has 7 MA's), (Start: 17 @6861 has 1 MA's), (18, 6897), (21, 6957), (26, 7074), (37, 7209), (51, 7326), (53, 7338),

Gene: Powelldog_12 Start: 7434, Stop: 7970, Start Num: 10
Candidate Starts for Powelldog_12:
(Start: 10 @7434 has 87 MA's), (Start: 17 @7482 has 1 MA's), (19, 7539), (20, 7569), (21, 7578), (23, 7626), (40, 7848), (43, 7884), (45, 7902),

Gene: ProfFrink_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for ProfFrink_11:

(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Qui_23 Start: 12961, Stop: 13497, Start Num: 10
Candidate Starts for Qui_23:
(5, 12952), (Start: 10 @12961 has 87 MA's), (16, 13003), (Start: 17 @13009 has 1 MA's), (21, 13108), (22, 13144), (26, 13225), (38, 13363), (42, 13405), (51, 13471),

Gene: Raunak_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Raunak_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Renaldo_15 Start: 7762, Stop: 8319, Start Num: 10
Candidate Starts for Renaldo_15:
(Start: 10 @7762 has 87 MA's), (Start: 17 @7807 has 1 MA's), (21, 7903), (32, 8116), (36, 8155), (40, 8173), (43, 8209),

Gene: Rima_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Rima_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Runhaar_19 Start: 12884, Stop: 13426, Start Num: 10
Candidate Starts for Runhaar_19:
(Start: 10 @12884 has 87 MA's), (Start: 17 @12932 has 1 MA's), (21, 13037), (26, 13154), (32, 13247), (34, 13274), (42, 13334), (44, 13352), (52, 13403),

Gene: RustyBoy_12 Start: 7531, Stop: 8061, Start Num: 10
Candidate Starts for RustyBoy_12:
(Start: 10 @7531 has 87 MA's), (Start: 17 @7579 has 1 MA's), (21, 7672), (24, 7723), (40, 7939), (43, 7975),

Gene: Salk_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Salk_11:
(Start: 10 @6416 has 87 MA's), (15, 6455), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: ScienceWizSam_12 Start: 7158, Stop: 7694, Start Num: 10
Candidate Starts for ScienceWizSam_12:
(Start: 10 @7158 has 87 MA's), (14, 7182), (15, 7194), (Start: 17 @7203 has 1 MA's), (21, 7299), (26, 7419), (30, 7482), (40, 7569), (42, 7599),

Gene: ShaggyRogers_19 Start: 12881, Stop: 13423, Start Num: 10
Candidate Starts for ShaggyRogers_19:
(Start: 10 @12881 has 87 MA's), (Start: 17 @12929 has 1 MA's), (21, 13034), (26, 13151), (32, 13244), (34, 13271), (42, 13331), (44, 13349), (52, 13400),

Gene: Shiba_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Shiba_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Sloopyjoe_11 Start: 6417, Stop: 6947, Start Num: 10
Candidate Starts for Sloopyjoe_11:
(Start: 10 @6417 has 87 MA's), (Start: 17 @6465 has 1 MA's), (19, 6519), (21, 6558), (28, 6723), (40, 6825), (43, 6861), (45, 6879),

Gene: Soshi_11 Start: 6705, Stop: 7352, Start Num: 1
Candidate Starts for Soshi_11:
(Start: 1 @6705 has 7 MA's), (Start: 17 @6861 has 1 MA's), (18, 6897), (21, 6957), (26, 7074), (37, 7209), (51, 7326), (53, 7338),

Gene: Spain_10 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Spain_10:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Spectropatronm_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for Spectropatronm_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Sporto_12 Start: 7645, Stop: 8175, Start Num: 10
Candidate Starts for Sporto_12:
(Start: 10 @7645 has 87 MA's), (Start: 17 @7693 has 1 MA's), (21, 7786), (24, 7837), (43, 8089),

Gene: Sprinkle_12 Start: 8156, Stop: 8689, Start Num: 10
Candidate Starts for Sprinkle_12:
(Start: 10 @8156 has 87 MA's), (Start: 12 @8165 has 17 MA's), (Start: 17 @8201 has 1 MA's), (21, 8297), (24, 8348), (25, 8402), (39, 8564), (40, 8567), (43, 8603), (45, 8621),

Gene: StarLord_11 Start: 6417, Stop: 6947, Start Num: 10
Candidate Starts for StarLord_11:
(Start: 10 @6417 has 87 MA's), (Start: 17 @6465 has 1 MA's), (19, 6519), (21, 6558), (28, 6723), (40, 6825), (43, 6861), (45, 6879),

Gene: Stardom_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Stardom_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Stayer_11 Start: 6416, Stop: 6946, Start Num: 10
Candidate Starts for Stayer_11:
(Start: 10 @6416 has 87 MA's), (Start: 17 @6464 has 1 MA's), (19, 6518), (21, 6557), (28, 6722), (40, 6824), (43, 6860), (45, 6878),

Gene: Synepsis_10 Start: 7323, Stop: 7859, Start Num: 10
Candidate Starts for Synepsis_10:
(Start: 10 @7323 has 87 MA's), (14, 7347), (15, 7359), (Start: 17 @7368 has 1 MA's), (21, 7464), (26, 7584), (30, 7647), (40, 7734), (42, 7764),

Gene: TaidaOne_11 Start: 6948, Stop: 7475, Start Num: 12
Candidate Starts for TaidaOne_11:
(Start: 12 @6948 has 17 MA's), (Start: 17 @6984 has 1 MA's), (18, 7020), (21, 7080), (26, 7197), (37, 7332), (51, 7449), (53, 7461),

Gene: Tatanka_10 Start: 7263, Stop: 7799, Start Num: 10
Candidate Starts for Tatanka_10:
(Start: 10 @7263 has 87 MA's), (14, 7287), (15, 7299), (Start: 17 @7308 has 1 MA's), (21, 7404), (26, 7524), (27, 7533), (30, 7587), (40, 7674), (42, 7704),

Gene: Teacup_11 Start: 7161, Stop: 7697, Start Num: 10
Candidate Starts for Teacup_11:
(Start: 10 @7161 has 87 MA's), (14, 7185), (Start: 17 @7206 has 1 MA's), (21, 7302), (26, 7422), (30, 7485), (40, 7572), (42, 7602),

Gene: TenaciousP_19 Start: 13086, Stop: 13634, Start Num: 10
Candidate Starts for TenaciousP_19:
(Start: 10 @13086 has 87 MA's), (Start: 17 @13134 has 1 MA's), (21, 13242), (26, 13362), (32, 13455), (33, 13476), (34, 13482), (42, 13542), (44, 13560), (46, 13569), (52, 13611),

Gene: Tenno_12 Start: 8415, Stop: 8951, Start Num: 10
Candidate Starts for Tenno_12:
(Start: 10 @8415 has 87 MA's), (14, 8439), (Start: 17 @8460 has 1 MA's), (21, 8556), (26, 8676), (30, 8739), (40, 8826), (42, 8856),

Gene: TieDye_10 Start: 6016, Stop: 6543, Start Num: 12
Candidate Starts for TieDye_10:
(Start: 12 @6016 has 17 MA's), (Start: 17 @6052 has 1 MA's), (18, 6088), (21, 6148), (26, 6265), (37, 6400), (51, 6517), (53, 6529),

Gene: Tonaltzin_19 Start: 13086, Stop: 13634, Start Num: 10
Candidate Starts for Tonaltzin_19:
(Start: 10 @13086 has 87 MA's), (Start: 17 @13134 has 1 MA's), (21, 13242), (26, 13362), (32, 13455), (33, 13476), (34, 13482), (42, 13542), (44, 13560), (46, 13569), (52, 13611),

Gene: TonyStarch_11 Start: 6306, Stop: 6833, Start Num: 12
Candidate Starts for TonyStarch_11:
(Start: 12 @6306 has 17 MA's), (Start: 17 @6342 has 1 MA's), (18, 6378), (21, 6438), (26, 6555), (37, 6690), (51, 6807), (53, 6819),

Gene: Tribby_9 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Tribby_9:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Trustiboi_12 Start: 7890, Stop: 8426, Start Num: 10
Candidate Starts for Trustiboi_12:
(Start: 10 @7890 has 87 MA's), (14, 7914), (15, 7926), (Start: 17 @7935 has 1 MA's), (21, 8031), (26, 8151), (30, 8214), (40, 8301), (42, 8331),

Gene: Untouchable_18 Start: 11809, Stop: 12351, Start Num: 10
Candidate Starts for Untouchable_18:
(Start: 10 @11809 has 87 MA's), (Start: 17 @11857 has 1 MA's), (21, 11962), (26, 12079), (32, 12172), (34, 12199), (42, 12259), (44, 12277), (52, 12328),

Gene: Vardy_19 Start: 12849, Stop: 13391, Start Num: 10
Candidate Starts for Vardy_19:

(Start: 10 @12849 has 87 MA's), (Start: 17 @12897 has 1 MA's), (21, 13002), (26, 13119), (32, 13212), (34, 13239), (42, 13299), (44, 13317), (52, 13368),

Gene: Westerlin_11 Start: 8409, Stop: 8945, Start Num: 10
Candidate Starts for Westerlin_11:
(Start: 10 @8409 has 87 MA's), (14, 8433), (15, 8445), (Start: 17 @8454 has 1 MA's), (21, 8550), (26, 8670), (30, 8733), (40, 8820), (42, 8850),

Gene: Wigberry_10 Start: 5374, Stop: 5934, Start Num: 2
Candidate Starts for Wigberry_10:
(Start: 2 @5374 has 1 MA's), (Start: 17 @5440 has 1 MA's), (21, 5536), (26, 5656), (53, 5920),

Gene: Xenomorph_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for Xenomorph_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: YoshiYama_8 Start: 5610, Stop: 6119, Start Num: 4
Candidate Starts for YoshiYama_8:
(Start: 4 @5610 has 21 MA's), (Start: 12 @5640 has 17 MA's), (Start: 17 @5676 has 1 MA's), (21, 5769), (34, 6006), (48, 6105),

Gene: Zippen_13 Start: 7981, Stop: 8517, Start Num: 10
Candidate Starts for Zippen_13:
(Start: 10 @7981 has 87 MA's), (13, 8002), (14, 8005), (Start: 17 @8026 has 1 MA's), (21, 8122), (22, 8158), (26, 8242), (30, 8305), (40, 8392), (42, 8422),