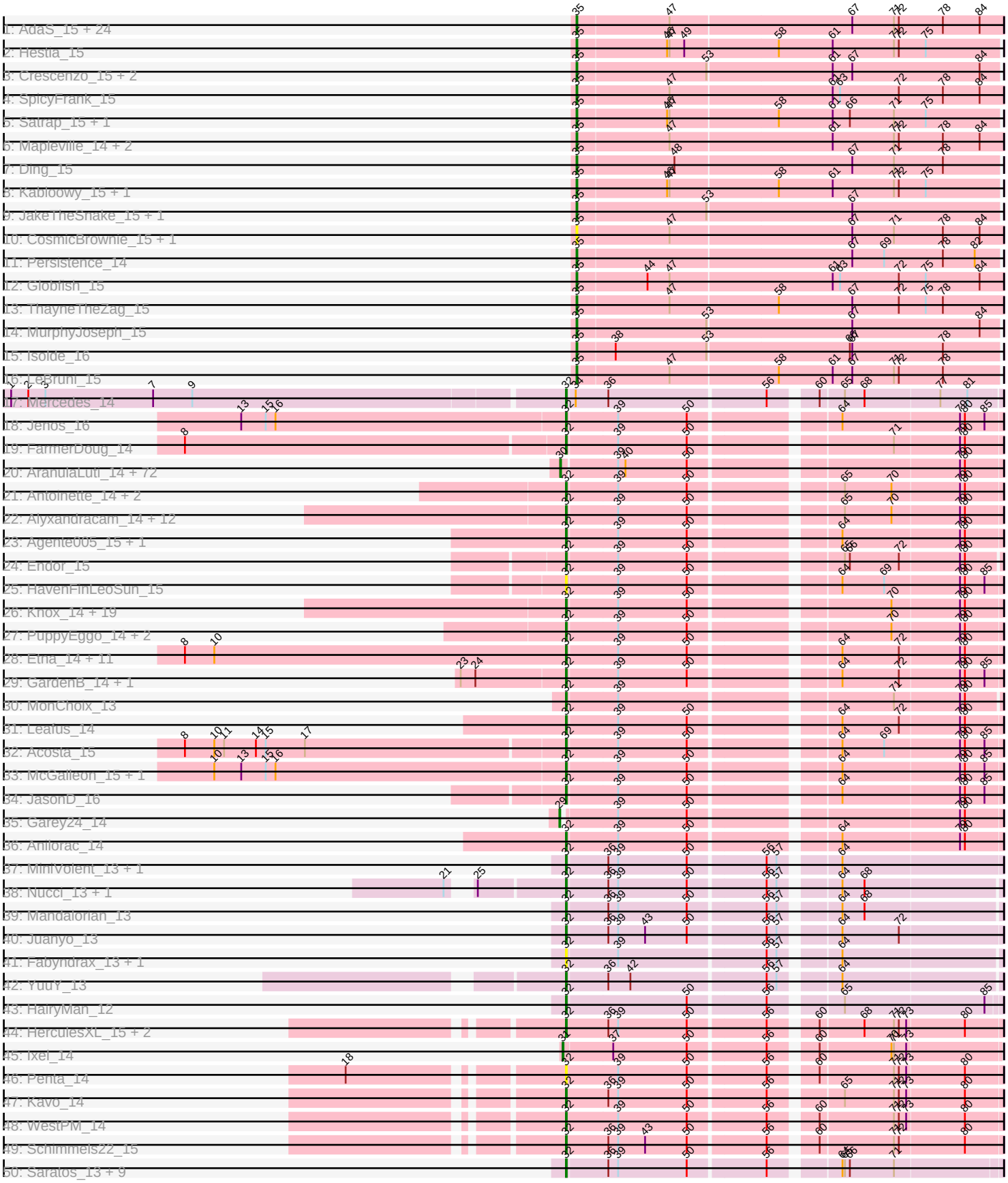
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1: AdaS_15 + 24
2: Hestia_15
3: Crescenzo_15 + 2
4: SpicyFrank_15
5: Satrap_15 + 1
6: Mapleville_14 + 2
7: Ding_15
8: Kabloowy_15 + 1
9: JakeTheSnake_15 + 1
10: CosmicBrownie_15 + 1
11: Persistence_14
12: Globlish_15
13: ThayneTheZag_15
14: MurphyJoseph_15
15: Isolde_16
16: LeBruni_15
17: Mercedes_14
18: Jenos_16
19: FarmerDoug_14
20: AranulaLuti_14 + 72
21: Antoinette_14 + 2
22: Alyxandracam_14 + 12
23: Agente005_15 + 1
24: Endor_15
25: HavenFinLeoSun_15
26: Knox_14 + 19
27: PuppyEggo_14 + 2
28: Etna_14 + 11
29: GardenB_14 + 1
30: MonCholx_13
31: Lealus_14
32: Acosta_15
33: McGalleon_15 + 1
34: JasonD_16
35: Garey24_14
36: Anllorac_14
37: MiniVolent_13 + 1
38: Nucci_13 + 1
39: Mandalorian_13
40: Juanyo_13
41: Fabyndrax_13 + 1
42: YuuY_13
43: HairyMan_12
44: HerculesXL_15 + 2
45: Ixel_14
46: Penta_14
47: Kavo_14
48: WestPM_14
49: Schimmels22_15
50: Saratos_13 + 9

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51: Sansa_12 + 2
52: Finny_13 + 1
53: Pikmin_13 + 2
54: Kauala_14
55: Golden_14 + 3
56: RenegadeRaider_14 + 6
57: BouleyBill_14
58: Alakazam_16
59: Clock_15
60: LilTerminator_15 + 4
61: Librie_15 + 4
62: Nefertiena_15
63: QuadZero_15 + 1
64: TwoBits_15
65: Nebulous_15
66: Chepil_15 + 2
67: Morrigan_15
68: WilliamStrong_13
69: Jemerald_15 + 1
70: Theresita_14
71: Schubert_14
72: GaeCeo_15 + 1
73: NikkiHotWheels_14 + 12
74: LittleRon_14 + 2
75: Karkharias_14
76: Peas_14 + 1
77: LilyBell_14
78: Footloose_12

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 347186 Report

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

Pham number 347186 has 287 members, 30 are drafts.

Phages represented in each track:
• Track 1 : AdaS_15, Windest_16, Vopal_16, Phrank15_14, Auxilium_15, YoungHarleezy_15, MaterMagnus_15, Hillester_15, CookieBear_15, JellyBread_15, MidnightRain_15, BlueShadow_15, Gorpy_15, SonDevVon_14, Lasker_15, NewKitty_16, RadFad_15, Raphaella_15, BenchScraper_15, Aikyam_15, Richie_15, Sakai_15, Sporco_15, BasketStar_15, MUWow_14
• Track 2 : Hestia_15
• Track 3 : Crescenzo_15, DarwinJr_18, Anekin_14
• Track 4 : SpicyFrank_15
• Track 5 : Satrap_15, Shukran_15
• Track 6 : Mapleville_14, BillyTP_15, Lawnathon_15
• Track 7 : Ding_15
• Track 8 : Kabloowy_15, Bhageatrice_17
• Track 9 : JakeTheSnake_15, Seahorse_16
• Track 10 : CosmicBrownie_15, GumGum_15
• Track 11 : Persistence_14
• Track 12 : Globfish_15
• Track 13 : ThayneTheZag_15
• Track 14 : MurphyJoseph_15
• Track 15 : Isolde_16
• Track 16 : LeBruni_15
• Track 17 : Mercedes_14
• Track 18 : Jenos_16
• Track 19 : FarmerDoug_14
• Track 20 : AranulaLuti_14, Ilzat_14, HanSolo_14, Phireproof_14, KannH_14, Teagan_14, Janus167_14, MaeLinda_14, Phriends_14, JasperRussell_14, Merida02_14, Phiderman_14, Delphidian_14, Gargoyle_14, Sedgewig_14, Byron23_14, RosieMae_14, Duocatuli_14, Nagem_14, Gubbabump_14, Oats_14, Bandik_14, NickSell_14, CoraRita_14, Tenda_14, Rapheph_14, Martin_15, Jerbirus_14, Rog141_14, Chako_14, Ludgate_14, TatarkaPM_14, SJay_14, Exploradora_14, PhredFlintston_14, Zada_14, MrWorldwide_14, TinSulphur_14, Riyhil_14, StingRay_14, KellyGreen_14, Christoph_14, Kouch_14, Pherferi_14, Kurt1_14, Dothraki_14, Bonino_14, JeriBeth_14, SolidSnake_14, Papafritta_14, SoilGremlin_14, OldNelly_14, Gershwin_14, ManRay_14, Asta_14, HankSprout_15, TeddyBear_14, Kale_14, StirfryIV_14, Aubergine_14, Inventa_14, Stanktossa_14, Clancy_14, Symere_14, Espinosa_14, MillyPhilly_14, Benjalauren_14, BeautPeep30_14, Winzigespinne_14, Pocket_14, ParleG_14, HungryHenry_14, Shee_14

• Track 21 : Antoinette_14, Dave_14, Peep_14
• Track 22 : Alyxandracam_14, Gelo_14, Superfresh_14, AlexAdler_14, Etta_14, Chamuel_14, Calix_14, Klimt_14, SonOfLevi_14, Renzie_14, Erla_14, Baines_14, Nattles_14
• Track 23 : Agente005_15, Aleyra_15
• Track 24 : Endor_15
• Track 25 : HavenFinLeoSun_15
• Track 26 : Knox_14, Figueroism_14, Lovelyunicorn_14, WildNOut_14, Convict_14, Ioannes_14, BonesMcCoy_14, Den3_14, Raptor_14, AxiPup_14, Greys_14, Robinson_14, Blage_14, Strathdee_14, Thompsone_14, GoingMerry_14, BigRedClifford_14, Velene_14, Thorongil_14, Oxtober96_14
• Track 27 : PuppyEggo_14, ShaiHulud_14, Vispistious_14
• Track 28 : Etna_14, PhillyPhantom_14, Peppino_14, Schnapsidee_14, Stormbreaker8_14, BeeBee8_15, Raccoon_14, Soror1_14, KingJulien_14, Balsa_14, Redfield_14, Hamlet_14
• Track 29 : GardenB_14, GoneGirl_15
• Track 30 : MonChoix_13
• Track 31 : Leafus_14
• Track 32 : Acosta_15
• Track 33 : McGalleon_15, CarisSwetlik_16
• Track 34 : JasonD_16
• Track 35 : Garey24_14
• Track 36 : Anilorac_14
• Track 37 : MiniVolent_13, Quartz_13
• Track 38 : Nucci_13, Carostasia_13
• Track 39 : Mandalorian_13
• Track 40 : Juanyo_13
• Track 41 : Fabyndrax_13, Cidela_13
• Track 42 : YuuY_13
• Track 43 : HairyMan_12
• Track 44 : HerculesXL_15, Scissor2024_15, Tinyman4_15
• Track 45 : Ixel_14
• Track 46 : Penta_14
• Track 47 : Kavo_14
• Track 48 : WestPM_14
• Track 49 : Schimmels22_15
• Track 50 : Saratos_13, PSirce_13, ColaCorta_13, ChikPic_13, Glamour_12, Eleri_13, Shamu_13, Orpington_13, Andromedas_13, Xebius_12
• Track 51 : Sansa_12, Zenitsu_13, MCubed_13
• Track 52 : Finny_13, Phanita_13
• Track 53 : Pikmin_13, Casey_13, Pajaza_13
• Track 54 : Kauala_14
• Track 55 : Golden_14, Guetzie_14, Lucky3_14, SirVictor_14
• Track 56 : RenegadeRaider_14, PrincePhergus_14, Jingles_14, Sinatra_14, Bustleton_14, Pherbot_14, Koji_14
• Track 57 : BouleyBill_14
• Track 58 : Alakazam_16
• Track 59 : Clock_15
• Track 60 : LilTerminator_15, GreenIvy_15, Vafari_15, BaronJohn_15, Zayuliv_15
• Track 61 : Librie_15, Hasitha_15, CaptainRex_15, Fulton_15, Wardwill_17
• Track 62 : Neferthena_15
• Track 63 : QuadZero_15, Zepp_16
• Track 64 : TwoBits_15

• Track 65 : Nebulous_15
• Track 66 : Chepli_15, Luna18_15, KatChan_15
• Track 67 : Morrigan_15
• Track 68 : WilliamStrong_13
• Track 69 : Jemerald_15, Juicer_15
• Track 70 : Theresita_14
• Track 71 : Schubert_14
• Track 72 : GaeCeo_15, ChickenKing_14
• Track 73 : NikkiHotWheels_14, Pucara_14, Judy_14, PeggyLeg03_14, GlobiWarming_14, Henrique_14, Constance_14, FosterFrank_14, HotPotato_14, Bridgette_14, Nyilah_14, NidoQ_14, Tiff81_16
• Track 74 : LittleRon_14, ChuckDuck_14, KayMoney_14
• Track 75 : Karkharias_14
• Track 76 : Peas_14, Eileen_14
• Track 77 : LilyBell_14
• Track 78 : Footloose_12

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

The start number called the most often in the published annotations is 32, it was called in 119 of the 257 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acosta_15, Agente005_15, Alakazam_16, AlexAdler_14, Aleyra_15, Alyxandracam_14, Andromedas_13, Anilorac_14, Antoinette_14, AxiPup_14, Baines_14, Balsa_14, BaronJohn_15, BeeBee8_15, BigRedClifford_14, Blage_14, BonesMcCoy_14, Calix_14, CaptainRex_15, CarisSwetlik_16, Carostasia_13, Casey_13, Chamuel_14, Chepli_15, ChickenKing_14, ChikPic_13, Cidela_13, Clock_15, ColaCorta_13, Convict_14, Dave_14, Den3_14, Eleri_13, Endor_15, Erla_14, Etna_14, Etta_14, Fabyndrax_13, FarmerDoug_14, Figueroism_14, Finny_13, Fulton_15, GaeCeo_15, GardenB_14, Gelo_14, Glamour_12, GoingMerry_14, GoneGirl_15, GreenIvy_15, Greys_14, HairyMan_12, Hamlet_14, Hasitha_15, HavenFinLeoSun_15, HerculesXL_15, Ioannes_14, JasonD_16, Jemerald_15, Jenos_16, Juanyo_13, Juicer_15, KatChan_15, Kavo_14, KingJulien_14, Klimt_14, Knox_14, Leafus_14, Librie_15, LilTerminator_15, Lovelyunicorn_14, Luna18_15, MCubed_13, Mandalorian_13, McGalleon_15, Mercedes_14, MiniVolent_13, MonChoix_13, Morrigan_15, Nattles_14, Nebulous_15, Neferthena_15, Nucci_13, Orpington_13, Oxtober96_14, PSirce_13, Pajaza_13, Peep_14, Penta_14, Peppino_14, Phanita_13, PhillyPhantom_14, Pikmin_13, PuppyEggo_14, QuadZero_15, Quartz_13, Raccoon_14, Raptor_14, Redfield_14, Renzie_14, Robinson_14, Sansa_12, Saratos_13, Schimmels22_15, Schnapsidee_14, Schubert_14, Scissor2024_15, ShaiHulud_14, Shamu_13, SonOfLevi_14, Soror1_14, Stormbreaker8_14, Strathdee_14, Superfresh_14, Theresita_14, Thompsone_14, Thorongil_14, Tinyman4_15, TwoBits_15, Vafari_15, Velene_14, Vispistious_14, Wardwill_17, WestPM_14, WildNOut_14, WilliamStrong_13, Xebius_12, YuuY_13, Zayuliv_15, Zenitsu_13, Zepp_16,

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

Genes that do not have the "Most Annotated" start:
• AdaS_15, Aikyam_15, Anekin_14, AranulaLuti_14, Asta_14, Aubergine_14, Auxilium_15, Bandik_14, BasketStar_15, BeautPeep30_14, BenchScraper_15, Benjalauren_14, Bhageatrice_17, BillyTP_15, BlueShadow_15, Bonino_14, BouleyBill_14, Bridgette_14, Bustleton_14, Byron23_14, Chako_14, Christoph_14, ChuckDuck_14, Clancy_14, Constance_14, CookieBear_15, CoraRita_14, CosmicBrownie_15, Crescenzo_15, DarwinJr_18, Delphidian_14, Ding_15, Dothraki_14, Duocatuli_14, Eileen_14, Espinosa_14, Exploradora_14, Footloose_12, FosterFrank_14, Garey24_14, Gargoyle_14, Gershwin_14, Globfish_15, GlobiWarming_14, Golden_14, Gorpy_15, Gubbabump_14, Guetzie_14, GumGum_15, HanSolo_14, HankSprout_15, Henrique_14, Hestia_15, Hillester_15, HotPotato_14, HungryHenry_14, Ilzat_14, Inventa_14, Isolde_16, Ixel_14, JakeTheSnake_15, Janus167_14, JasperRussell_14, JellyBread_15, Jerbirus_14, JeriBeth_14, Jingles_14, Judy_14, Kabloowy_15, Kale_14, KannH_14, Karkharias_14, Kauala_14, KayMoney_14, KellyGreen_14, Koji_14, Kouch_14, Kurt1_14, Lasker_15, Lawnathon_15, LeBruni_15, LilyBell_14, LittleRon_14, Lucky3_14, Ludgate_14, MUWow_14, MaeLinda_14, ManRay_14, Mapleville_14, Martin_15, MaterMagnus_15, Merida02_14, MidnightRain_15, MillyPhilly_14, MrWorldwide_14, MurphyJoseph_15, Nagem_14, NewKitty_16, NickSell_14, NidoQ_14, NikkiHotWheels_14, Nyilah_14, Oats_14, OldNelly_14, Papafritta_14, ParleG_14, Peas_14, PeggyLeg03_14, Persistence_14, Pherbot_14, Pherferi_14, Phiderman_14, Phireproof_14, Phrank15_14, PhredFlintston_14, Phriends_14, Pocket_14, PrincePhergus_14, Pucara_14, RadFad_15, Raphaella_15, Rapheph_14, RenegadeRaider_14, Richie_15, Riyhil_14, Rog141_14, RosieMae_14, SJay_14, Sakai_15, Satrap_15, Seahorse_16, Sedgewig_14, Shee_14, Shukran_15, Sinatra_14, SirVictor_14, SoilGremlin_14, SolidSnake_14, SonDevVon_14, SpicyFrank_15, Sporco_15, Stanktossa_14, StingRay_14, StirfryIV_14, Symere_14, TatarkaPM_14, Teagan_14, TeddyBear_14, Tenda_14, ThayneTheZag_15, Tiff81_16, TinSulphur_14, Vopal_16, Windest_16, Winzigespinne_14, YoungHarleezy_15, Zada_14,

Summary by start number:

Start 29:
• Found in 1 of 287 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Garey24_14 (EA1),

Start 30:
• Found in 86 of 287 (30.0%) of genes in pham
• Manual Annotations of this start: 81 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AranulaLuti_14 (EA1), Asta_14 (EA1), Aubergine_14 (EA1), Bandik_14 (EA1), BeautPeep30_14 (EA1), Benjalauren_14 (EA1), Bonino_14 (EA1), BouleyBill_14 (EA4), Bustleton_14 (EA4), Byron23_14 (EA1), Chako_14 (EA1), Christoph_14 (EA1), Clancy_14 (EA1), CoraRita_14 (EA1), Delphidian_14 (EA1), Dothraki_14 (EA1), Duocatuli_14 (EA1), Espinosa_14 (EA1), Exploradora_14 (EA1), Gargoyle_14 (EA1), Gershwin_14 (EA1), Golden_14 (EA4), Gubbabump_14 (EA1), Guetzie_14 (EA4), HanSolo_14 (EA1), HankSprout_15 (EA1), HungryHenry_14 (EA1), Ilzat_14 (EA1), Inventa_14 (EA1), Janus167_14 (EA1), JasperRussell_14 (EA1), Jerbirus_14 (EA1), JeriBeth_14 (EA1), Jingles_14 (EA4), Kale_14 (EA1), KannH_14 (EA1), Kauala_14 (EA4), KellyGreen_14 (EA1), Koji_14

(EA4), Kouch_14 (EA1), Kurt1_14 (EA1), Lucky3_14 (EA4), Ludgate_14 (EA1), MaeLinda_14 (EA1), ManRay_14 (EA1), Martin_15 (EA1), Merida02_14 (EA1), MillyPhilly_14 (EA1), MrWorldwide_14 (EA1), Nagem_14 (EA1), NickSell_14 (EA1), Oats_14 (EA1), OldNelly_14 (EA1), Papafritta_14 (EA1), ParleG_14 (EA1), Pherbot_14 (EA4), Pherferi_14 (EA1), Phiderman_14 (EA1), Phireproof_14 (EA1), PhredFlintston_14 (EA1), Phriends_14 (EA1), Pocket_14 (EA1), PrincePhergus_14 (EA4), Rapheph_14 (EA1), RenegadeRaider_14 (EA4), Riyhil_14 (EA1), Rog141_14 (EA1), RosieMae_14 (EA1), SJay_14 (EA1), Sedgewig_14 (EA1), Shee_14 (EA1), Sinatra_14 (EA4), SirVictor_14 (EA4), SoilGremlin_14 (EA1), SolidSnake_14 (EA1), Stanktossa_14 (EA1), StingRay_14 (EA1), StirfryIV_14 (EA1), Symere_14 (EA1), TatarkaPM_14 (EA1), Teagan_14 (EA1), TeddyBear_14 (EA1), Tenda_14 (EA1), TinSulphur_14 (EA1), Winzigespinne_14 (EA1), Zada_14 (EA1),

Start 31:
• Found in 1 of 287 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ixel_14 (EA11),

Start 32:
• Found in 130 of 287 (45.3%) of genes in pham
• Manual Annotations of this start: 119 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Acosta_15 (EA1), Agente005_15 (EA1), Alakazam_16 (EA5), AlexAdler_14 (EA1), Aleyra_15 (EA1), Alyxandracam_14 (EA1), Andromedas_13 (EA2), Anilorac_14 (EA1), Antoinette_14 (EA1), AxiPup_14 (EA1), Baines_14 (EA1), Balsa_14 (EA1), BaronJohn_15 (EA5), BeeBee8_15 (EA1), BigRedClifford_14 (EA1), Blage_14 (EA1), BonesMcCoy_14 (EA1), Calix_14 (EA1), CaptainRex_15 (EA5), CarisSwetlik_16 (EA1), Carostasia_13 (EA10), Casey_13 (EA3), Chamuel_14 (EA1), Chepli_15 (EA6), ChickenKing_14 (EA9), ChikPic_13 (EA2), Cidela_13 (EA10), Clock_15 (EA5), ColaCorta_13 (EA2), Convict_14 (EA1), Dave_14 (EA1), Den3_14 (EA1), Eleri_13 (EA2), Endor_15 (EA1), Erla_14 (EA1), Etna_14 (EA1), Etta_14 (EA1), Fabyndrax_13 (EA10), FarmerDoug_14 (EA1), Figueroism_14 (EA1), Finny_13 (EA2), Fulton_15 (EA5), GaeCeo_15 (EA9), GardenB_14 (EA1), Gelo_14 (EA1), Glamour_12 (EA2), GoingMerry_14 (EA1), GoneGirl_15 (EA1), GreenIvy_15 (EA5), Greys_14 (EA1), HairyMan_12 (EA10), Hamlet_14 (EA1), Hasitha_15 (EA5), HavenFinLeoSun_15 (EA1), HerculesXL_15 (EA11), Ioannes_14 (EA1), JasonD_16 (EA1), Jemerald_15 (EA6), Jenos_16 (EA1), Juanyo_13 (EA10), Juicer_15 (EA6), KatChan_15 (EA6), Kavo_14 (EA11), KingJulien_14 (EA1), Klimt_14 (EA1), Knox_14 (EA1), Leafus_14 (EA1), Librie_15 (EA5), LilTerminator_15 (EA5), Lovelyunicorn_14 (EA1), Luna18_15 (EA6), MCubed_13 (EA2), Mandalorian_13 (EA10), McGalleon_15 (EA1), Mercedes_14 (EA), MiniVolent_13 (EA10), MonChoix_13 (EA1), Morrigan_15 (EA6), Nattles_14 (EA1), Nebulous_15 (EA5), Neferthena_15 (EA5), Nucci_13 (EA10), Orpington_13 (EA2), Oxtober96_14 (EA1), PSirce_13 (EA2), Pajaza_13 (EA3), Peep_14 (EA1), Penta_14 (EA11), Peppino_14 (EA1), Phanita_13 (EA2), PhillyPhantom_14 (EA1), Pikmin_13 (EA3), PuppyEggo_14 (EA1), QuadZero_15 (EA5), Quartz_13 (EA10), Raccoon_14 (EA1), Raptor_14 (EA1), Redfield_14 (EA1), Renzie_14 (EA1), Robinson_14 (EA1), Sansa_12 (EA2), Saratos_13 (EA2), Schimmels22_15 (EA11), Schnapsidee_14 (EA1), Schubert_14 (EA8), Scissor2024_15 (EA11), ShaiHulud_14 (EA1), Shamu_13 (EA2), SonOfLevi_14 (EA1), Soror1_14 (EA1), Stormbreaker8_14 (EA1), Strathdee_14 (EA1), Superfresh_14 (EA1), Theresita_14 (EA7), Thompsone_14 (EA1), Thorongil_14 (EA1), Tinyman4_15 (EA11), TwoBits_15 (EA5),

Vafari_15 (EA5), Velene_14 (EA1), Vispistious_14 (EA1), Wardwill_17 (EA5), WestPM_14 (EA11), WildNOut_14 (EA1), WilliamStrong_13 (EA6), Xebius_12 (EA2), YuuY_13 (EA10), Zayuliv_15 (EA5), Zenitsu_13 (EA2), Zepp_16 (EA5),

Start 33:
• Found in 1 of 287 (0.3%) of genes in pham
• Manual Annotations of this start: 1 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Footloose_12 (singleton),

Start 35:
• Found in 68 of 287 (23.7%) of genes in pham
• Manual Annotations of this start: 54 of 257
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AdaS_15 (AY), Aikyam_15 (AY), Anekin_14 (AY), Auxilium_15 (AY), BasketStar_15 (AY), BenchScraper_15 (AY), Bhageatrice_17 (AY), BillyTP_15 (AY), BlueShadow_15 (AY), Bridgette_14 (FA), ChuckDuck_14 (FA), Constance_14 (FA), CookieBear_15 (AY), CosmicBrownie_15 (AY), Crescenzo_15 (AY), DarwinJr_18 (AY), Ding_15 (AY), Eileen_14 (FA), FosterFrank_14 (FA), Globfish_15 (AY), GlobiWarming_14 (FA), Gorpy_15 (AY), GumGum_15 (AY), Henrique_14 (FA), Hestia_15 (AY), Hillester_15 (AY), HotPotato_14 (FA), Isolde_16 (AY), JakeTheSnake_15 (AY), JellyBread_15 (AY), Judy_14 (FA), Kabloowy_15 (AY), Karkharias_14 (FA), KayMoney_14 (FA), Lasker_15 (AY), Lawnathon_15 (AY), LeBruni_15 (AY), LilyBell_14 (FA), LittleRon_14 (FA), MUWow_14 (AY), Mapleville_14 (AY), MaterMagnus_15 (AY), MidnightRain_15 (AY), MurphyJoseph_15 (AY), NewKitty_16 (AY), NidoQ_14 (FA), NikkiHotWheels_14 (FA), Nyilah_14 (AY), Peas_14 (FA), PeggyLeg03_14 (FA), Persistence_14 (AY), Phrank15_14 (AY), Pucara_14 (FA), RadFad_15 (AY), Raphaella_15 (AY), Richie_15 (AY), Sakai_15 (AY), Satrap_15 (AY), Seahorse_16 (AY), Shukran_15 (AY), SonDevVon_14 (AY), SpicyFrank_15 (AY), Sporco_15 (AY), ThayneTheZag_15 (AY), Tiff81_16 (AY), Vopal_16 (AY), Windest_16 (AY), YoungHarleezy_15 (AY),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, EA11, EA10, EA8, EA, EA9, FA, AY, EA1, EA3, EA2, EA5, EA4, EA7, EA6,

Info for manual annotations of cluster AY:
•Start number 35 was manually annotated 41 times for cluster AY.

Info for manual annotations of cluster EA:
•Start number 32 was manually annotated 1 time for cluster EA.

Info for manual annotations of cluster EA1:
•Start number 29 was manually annotated 1 time for cluster EA1.
•Start number 30 was manually annotated 69 times for cluster EA1.
•Start number 32 was manually annotated 62 times for cluster EA1.

Info for manual annotations of cluster EA10:
•Start number 32 was manually annotated 7 times for cluster EA10.

Info for manual annotations of cluster EA11:
•Start number 31 was manually annotated 1 time for cluster EA11.

•Start number 32 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA2:
•Start number 32 was manually annotated 14 times for cluster EA2.

Info for manual annotations of cluster EA3:
•Start number 32 was manually annotated 3 times for cluster EA3.

Info for manual annotations of cluster EA4:
•Start number 30 was manually annotated 12 times for cluster EA4.

Info for manual annotations of cluster EA5:
•Start number 32 was manually annotated 16 times for cluster EA5.

Info for manual annotations of cluster EA6:
•Start number 32 was manually annotated 7 times for cluster EA6.

Info for manual annotations of cluster EA7:
•Start number 32 was manually annotated 1 time for cluster EA7.

Info for manual annotations of cluster EA8:
•Start number 32 was manually annotated 1 time for cluster EA8.

Info for manual annotations of cluster EA9:
•Start number 32 was manually annotated 2 times for cluster EA9.

Info for manual annotations of cluster FA:
•Start number 35 was manually annotated 13 times for cluster FA.

Gene Information:

Gene: Acosta_15 Start: 8118, Stop: 8615, Start Num: 32
Candidate Starts for Acosta_15:
(8, 7662), (10, 7698), (11, 7710), (14, 7749), (15, 7761), (17, 7809), (Start: 32 @8118 has 119 MA's), (39, 8178), (50, 8262), (64, 8424), (69, 8475), (79, 8565), (80, 8571), (85, 8595),

Gene: AdaS_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for AdaS_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: Agente005_15 Start: 8414, Stop: 8911, Start Num: 32
Candidate Starts for Agente005_15:
(Start: 32 @8414 has 119 MA's), (39, 8474), (50, 8558), (64, 8720), (79, 8861), (80, 8867),

Gene: Aikyam_15 Start: 9047, Stop: 9562, Start Num: 35
Candidate Starts for Aikyam_15:
(Start: 35 @9047 has 54 MA's), (47, 9158), (67, 9377), (71, 9428), (72, 9434), (78, 9488), (84, 9533),

Gene: Alakazam_16 Start: 9156, Stop: 9650, Start Num: 32
Candidate Starts for Alakazam_16:

(Start: 32 @9156 has 119 MA's), (36, 9204), (56, 9390), (60, 9438), (68, 9489), (71, 9525), (73, 9540), (77, 9579), (80, 9609),

Gene: AlexAdler_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for AlexAdler_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: Aleyra_15 Start: 8419, Stop: 8916, Start Num: 32
Candidate Starts for Aleyra_15:
(Start: 32 @8419 has 119 MA's), (39, 8479), (50, 8563), (64, 8725), (79, 8866), (80, 8872),

Gene: Alyxandracam_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Alyxandracam_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (65, 8163), (70, 8220), (79, 8301), (80, 8307),

Gene: Andromedas_13 Start: 7926, Stop: 8420, Start Num: 32
Candidate Starts for Andromedas_13:
(Start: 32 @7926 has 119 MA's), (36, 7974), (39, 7986), (50, 8070), (56, 8160), (64, 8232), (65, 8235), (66, 8241), (71, 8295),

Gene: Anekin_14 Start: 9162, Stop: 9671, Start Num: 35
Candidate Starts for Anekin_14:
(Start: 35 @9162 has 54 MA's), (53, 9318), (61, 9468), (67, 9492), (84, 9648),

Gene: Anilorac_14 Start: 8259, Stop: 8756, Start Num: 32
Candidate Starts for Anilorac_14:
(Start: 32 @8259 has 119 MA's), (39, 8319), (50, 8403), (64, 8565), (79, 8706), (80, 8712),

Gene: Antoinette_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for Antoinette_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: AranulaLuti_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for AranulaLuti_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Asta_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for Asta_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: Aubergine_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for Aubergine_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: Auxilium_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for Auxilium_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: AxiPup_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for AxiPup_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Baines_14 Start: 8144, Stop: 8641, Start Num: 32

Candidate Starts for Baines_14:
(Start: 32 @8144 has 119 MA's), (39, 8204), (50, 8288), (65, 8453), (70, 8510), (79, 8591), (80, 8597),

Gene: Balsa_14 Start: 8265, Stop: 8762, Start Num: 32
Candidate Starts for Balsa_14:
(8, 7800), (10, 7836), (Start: 32 @8265 has 119 MA's), (39, 8325), (50, 8409), (64, 8571), (72, 8640), (79, 8712), (80, 8718),

Gene: Bandik_14 Start: 7849, Stop: 8349, Start Num: 30
Candidate Starts for Bandik_14:
(Start: 30 @7849 has 81 MA's), (39, 7912), (40, 7921), (50, 7996), (79, 8299), (80, 8305),

Gene: BaronJohn_15 Start: 8367, Stop: 8861, Start Num: 32
Candidate Starts for BaronJohn_15:
(Start: 32 @8367 has 119 MA's), (36, 8415), (56, 8601), (60, 8649), (68, 8700), (77, 8790),

Gene: BasketStar_15 Start: 9100, Stop: 9615, Start Num: 35
Candidate Starts for BasketStar_15:
(Start: 35 @9100 has 54 MA's), (47, 9211), (67, 9430), (71, 9481), (72, 9487), (78, 9541), (84, 9586),

Gene: BeautPeep30_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for BeautPeep30_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: BeeBee8_15 Start: 8428, Stop: 8925, Start Num: 32
Candidate Starts for BeeBee8_15:
(8, 7963), (10, 7999), (Start: 32 @8428 has 119 MA's), (39, 8488), (50, 8572), (64, 8734), (72, 8803), (79, 8875), (80, 8881),

Gene: BenchScraper_15 Start: 9061, Stop: 9576, Start Num: 35
Candidate Starts for BenchScraper_15:
(Start: 35 @9061 has 54 MA's), (47, 9172), (67, 9391), (71, 9442), (72, 9448), (78, 9502), (84, 9547),

Gene: Benjalauren_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Benjalauren_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Bhageatrice_17 Start: 10257, Stop: 10766, Start Num: 35
Candidate Starts for Bhageatrice_17:
(Start: 35 @10257 has 54 MA's), (46, 10365), (47, 10368), (58, 10497), (61, 10563), (71, 10638), (72, 10644), (75, 10677),

Gene: BigRedClifford_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for BigRedClifford_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: BillyTP_15 Start: 9052, Stop: 9567, Start Num: 35
Candidate Starts for BillyTP_15:
(Start: 35 @9052 has 54 MA's), (47, 9163), (61, 9358), (71, 9433), (72, 9439), (78, 9493), (84, 9538),

Gene: Blage_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Blage_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: BlueShadow_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for BlueShadow_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: BonesMcCoy_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for BonesMcCoy_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Bonino_14 Start: 8135, Stop: 8635, Start Num: 30
Candidate Starts for Bonino_14:
(Start: 30 @8135 has 81 MA's), (39, 8198), (40, 8207), (50, 8282), (79, 8585), (80, 8591),

Gene: BouleyBill_14 Start: 8111, Stop: 8611, Start Num: 30
Candidate Starts for BouleyBill_14:
(Start: 30 @8111 has 81 MA's), (47, 8237), (50, 8258), (71, 8483), (83, 8582),

Gene: Bridgette_14 Start: 9212, Stop: 9727, Start Num: 35
Candidate Starts for Bridgette_14:
(Start: 35 @9212 has 54 MA's), (46, 9320), (47, 9323), (61, 9518), (67, 9542), (71, 9593), (72, 9599), (78, 9653), (84, 9698),

Gene: Bustleton_14 Start: 8099, Stop: 8599, Start Num: 30
Candidate Starts for Bustleton_14:
(Start: 30 @8099 has 81 MA's), (39, 8162), (50, 8246), (71, 8471), (83, 8570),

Gene: Byron23_14 Start: 7858, Stop: 8358, Start Num: 30
Candidate Starts for Byron23_14:
(Start: 30 @7858 has 81 MA's), (39, 7921), (40, 7930), (50, 8005), (79, 8308), (80, 8314),

Gene: Calix_14 Start: 8137, Stop: 8634, Start Num: 32
Candidate Starts for Calix_14:
(Start: 32 @8137 has 119 MA's), (39, 8197), (50, 8281), (65, 8446), (70, 8503), (79, 8584), (80, 8590),

Gene: CaptainRex_15 Start: 8370, Stop: 8864, Start Num: 32
Candidate Starts for CaptainRex_15:
(4, 7797), (5, 7821), (6, 7839), (7, 7872), (8, 7911), (12, 7971), (Start: 32 @8370 has 119 MA's), (36, 8418), (56, 8604), (60, 8652), (68, 8703), (77, 8793),

Gene: CarisSwetlik_16 Start: 8615, Stop: 9112, Start Num: 32
Candidate Starts for CarisSwetlik_16:
(10, 8189), (13, 8222), (15, 8252), (16, 8264), (Start: 32 @8615 has 119 MA's), (39, 8675), (50, 8759), (64, 8921), (79, 9062), (80, 9068), (85, 9092),

Gene: Carostasia_13 Start: 8119, Stop: 8613, Start Num: 32
Candidate Starts for Carostasia_13:
(21, 8008), (25, 8020), (Start: 32 @8119 has 119 MA's), (36, 8167), (39, 8179), (50, 8263), (56, 8353), (57, 8365), (64, 8425), (68, 8452),

Gene: Casey_13 Start: 8136, Stop: 8636, Start Num: 32
Candidate Starts for Casey_13:
(Start: 32 @8136 has 119 MA's), (62, 8433), (85, 8613),

Gene: Chako_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Chako_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Chamuel_14 Start: 8139, Stop: 8636, Start Num: 32
Candidate Starts for Chamuel_14:
(Start: 32 @8139 has 119 MA's), (39, 8199), (50, 8283), (65, 8448), (70, 8505), (79, 8586), (80, 8592),

Gene: Chepli_15 Start: 8369, Stop: 8863, Start Num: 32
Candidate Starts for Chepli_15:
(Start: 32 @8369 has 119 MA's), (39, 8429), (50, 8513), (56, 8603), (73, 8753), (80, 8822), (85, 8846),

Gene: ChickenKing_14 Start: 7823, Stop: 8320, Start Num: 32
Candidate Starts for ChickenKing_14:
(27, 7751), (Start: 32 @7823 has 119 MA's), (39, 7886), (65, 8135), (69, 8183),

Gene: ChikPic_13 Start: 7942, Stop: 8436, Start Num: 32
Candidate Starts for ChikPic_13:
(Start: 32 @7942 has 119 MA's), (36, 7990), (39, 8002), (50, 8086), (56, 8176), (64, 8248), (65, 8251), (66, 8257), (71, 8311),

Gene: Christoph_14 Start: 8156, Stop: 8656, Start Num: 30
Candidate Starts for Christoph_14:
(Start: 30 @8156 has 81 MA's), (39, 8219), (40, 8228), (50, 8303), (79, 8606), (80, 8612),

Gene: ChuckDuck_14 Start: 9168, Stop: 9683, Start Num: 35
Candidate Starts for ChuckDuck_14:
(Start: 35 @9168 has 54 MA's), (47, 9279), (58, 9408), (67, 9498), (71, 9549), (72, 9555), (78, 9609), (84, 9654),

Gene: Cidela_13 Start: 8749, Stop: 9243, Start Num: 32
Candidate Starts for Cidela_13:
(Start: 32 @8749 has 119 MA's), (39, 8809), (56, 8983), (57, 8995), (64, 9055),

Gene: Clancy_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Clancy_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Clock_15 Start: 9104, Stop: 9598, Start Num: 32
Candidate Starts for Clock_15:
(Start: 32 @9104 has 119 MA's), (36, 9152), (41, 9176), (50, 9248), (56, 9338), (60, 9386), (68, 9437), (71, 9473), (76, 9512), (77, 9527), (80, 9557), (85, 9581),

Gene: ColaCorta_13 Start: 7926, Stop: 8420, Start Num: 32
Candidate Starts for ColaCorta_13:
(Start: 32 @7926 has 119 MA's), (36, 7974), (39, 7986), (50, 8070), (56, 8160), (64, 8232), (65, 8235), (66, 8241), (71, 8295),

Gene: Constance_14 Start: 9215, Stop: 9730, Start Num: 35
Candidate Starts for Constance_14:
(Start: 35 @9215 has 54 MA's), (46, 9323), (47, 9326), (61, 9521), (67, 9545), (71, 9596), (72, 9602), (78, 9656), (84, 9701),

Gene: Convict_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Convict_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: CookieBear_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for CookieBear_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: CoraRita_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for CoraRita_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: CosmicBrownie_15 Start: 9133, Stop: 9648, Start Num: 35
Candidate Starts for CosmicBrownie_15:
(Start: 35 @9133 has 54 MA's), (47, 9244), (67, 9463), (71, 9514), (78, 9574), (84, 9619),

Gene: Crescenzo_15 Start: 9090, Stop: 9599, Start Num: 35
Candidate Starts for Crescenzo_15:
(Start: 35 @9090 has 54 MA's), (53, 9246), (61, 9396), (67, 9420), (84, 9576),

Gene: DarwinJr_18 Start: 10394, Stop: 10903, Start Num: 35
Candidate Starts for DarwinJr_18:
(Start: 35 @10394 has 54 MA's), (53, 10550), (61, 10700), (67, 10724), (84, 10880),

Gene: Dave_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for Dave_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: Delphidian_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for Delphidian_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: Den3_14 Start: 7858, Stop: 8355, Start Num: 32
Candidate Starts for Den3_14:
(Start: 32 @7858 has 119 MA's), (39, 7918), (50, 8002), (70, 8224), (79, 8305), (80, 8311),

Gene: Ding_15 Start: 9021, Stop: 9530, Start Num: 35
Candidate Starts for Ding_15:
(Start: 35 @9021 has 54 MA's), (48, 9138), (67, 9351), (71, 9402), (78, 9462),

Gene: Dothraki_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Dothraki_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Duocatuli_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Duocatuli_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Eileen_14 Start: 9176, Stop: 9691, Start Num: 35
Candidate Starts for Eileen_14:
(Start: 35 @9176 has 54 MA's), (47, 9287), (61, 9482), (67, 9506), (71, 9557), (72, 9563), (78, 9617), (84, 9662),

Gene: Eleri_13 Start: 7939, Stop: 8433, Start Num: 32
Candidate Starts for Eleri_13:
(Start: 32 @7939 has 119 MA's), (36, 7987), (39, 7999), (50, 8083), (56, 8173), (64, 8245), (65, 8248), (66, 8254), (71, 8308),

Gene: Endor_15 Start: 8399, Stop: 8893, Start Num: 32
Candidate Starts for Endor_15:
(Start: 32 @8399 has 119 MA's), (39, 8459), (50, 8543), (65, 8708), (66, 8714), (72, 8774), (79, 8846), (80, 8852),

Gene: Erla_14 Start: 8137, Stop: 8634, Start Num: 32
Candidate Starts for Erla_14:
(Start: 32 @8137 has 119 MA's), (39, 8197), (50, 8281), (65, 8446), (70, 8503), (79, 8584), (80, 8590),

Gene: Espinosa_14 Start: 8156, Stop: 8656, Start Num: 30
Candidate Starts for Espinosa_14:
(Start: 30 @8156 has 81 MA's), (39, 8219), (40, 8228), (50, 8303), (79, 8606), (80, 8612),

Gene: Etna_14 Start: 8256, Stop: 8753, Start Num: 32
Candidate Starts for Etna_14:
(8, 7791), (10, 7827), (Start: 32 @8256 has 119 MA's), (39, 8316), (50, 8400), (64, 8562), (72, 8631), (79, 8703), (80, 8709),

Gene: Etta_14 Start: 8141, Stop: 8638, Start Num: 32
Candidate Starts for Etta_14:
(Start: 32 @8141 has 119 MA's), (39, 8201), (50, 8285), (65, 8450), (70, 8507), (79, 8588), (80, 8594),

Gene: Exploradora_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Exploradora_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Fabyndrax_13 Start: 8749, Stop: 9243, Start Num: 32
Candidate Starts for Fabyndrax_13:
(Start: 32 @8749 has 119 MA's), (39, 8809), (56, 8983), (57, 8995), (64, 9055),

Gene: FarmerDoug_14 Start: 7976, Stop: 8473, Start Num: 32
Candidate Starts for FarmerDoug_14:
(8, 7520), (Start: 32 @7976 has 119 MA's), (39, 8036), (50, 8120), (71, 8345), (79, 8423), (80, 8429),

Gene: Figueroism_14 Start: 7845, Stop: 8339, Start Num: 32
Candidate Starts for Figueroism_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (70, 8211), (79, 8292), (80, 8298),

Gene: Finny_13 Start: 7926, Stop: 8420, Start Num: 32
Candidate Starts for Finny_13:
(Start: 32 @7926 has 119 MA's), (36, 7974), (39, 7986), (50, 8070), (56, 8160), (64, 8232), (65, 8235), (66, 8241),

Gene: Footloose_12 Start: 7732, Stop: 8235, Start Num: 33
Candidate Starts for Footloose_12:
(28, 7714), (Start: 33 @7732 has 1 MA's), (45, 7834), (47, 7849), (51, 7870), (52, 7873), (54, 7933), (55, 7963), (58, 7981), (59, 7990), (67, 8056), (72, 8113), (74, 8134), (79, 8188), (80, 8194), (82, 8206),

Gene: FosterFrank_14 Start: 9173, Stop: 9688, Start Num: 35
Candidate Starts for FosterFrank_14:
(Start: 35 @9173 has 54 MA's), (46, 9281), (47, 9284), (61, 9479), (67, 9503), (71, 9554), (72, 9560), (78, 9614), (84, 9659),

Gene: Fulton_15 Start: 8352, Stop: 8846, Start Num: 32
Candidate Starts for Fulton_15:
(4, 7779), (5, 7803), (6, 7821), (7, 7854), (8, 7893), (12, 7953), (Start: 32 @8352 has 119 MA's), (36, 8400), (56, 8586), (60, 8634), (68, 8685), (77, 8775),

Gene: GaeCeo_15 Start: 7993, Stop: 8490, Start Num: 32
Candidate Starts for GaeCeo_15:
(27, 7921), (Start: 32 @7993 has 119 MA's), (39, 8056), (65, 8305), (69, 8353),

Gene: GardenB_14 Start: 8252, Stop: 8749, Start Num: 32
Candidate Starts for GardenB_14:
(23, 8129), (24, 8147), (Start: 32 @8252 has 119 MA's), (39, 8312), (50, 8396), (64, 8558), (72, 8627), (79, 8699), (80, 8705), (85, 8729),

Gene: Garey24_14 Start: 8117, Stop: 8614, Start Num: 29
Candidate Starts for Garey24_14:
(Start: 29 @8117 has 1 MA's), (39, 8177), (50, 8261), (79, 8564), (80, 8570),

Gene: Gargoyle_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Gargoyle_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Gelo_14 Start: 8141, Stop: 8638, Start Num: 32
Candidate Starts for Gelo_14:
(Start: 32 @8141 has 119 MA's), (39, 8201), (50, 8285), (65, 8450), (70, 8507), (79, 8588), (80, 8594),

Gene: Gershwin_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for Gershwin_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: Glamour_12 Start: 7927, Stop: 8421, Start Num: 32
Candidate Starts for Glamour_12:
(Start: 32 @7927 has 119 MA's), (36, 7975), (39, 7987), (50, 8071), (56, 8161), (64, 8233), (65, 8236), (66, 8242), (71, 8296),

Gene: Globfish_15 Start: 9110, Stop: 9625, Start Num: 35
Candidate Starts for Globfish_15:
(Start: 35 @9110 has 54 MA's), (44, 9194), (47, 9221), (61, 9416), (63, 9425), (72, 9497), (75, 9530), (84, 9596),

Gene: GlobiWarming_14 Start: 9169, Stop: 9684, Start Num: 35
Candidate Starts for GlobiWarming_14:
(Start: 35 @9169 has 54 MA's), (46, 9277), (47, 9280), (61, 9475), (67, 9499), (71, 9550), (72, 9556), (78, 9610), (84, 9655),

Gene: GoingMerry_14 Start: 7867, Stop: 8364, Start Num: 32
Candidate Starts for GoingMerry_14:
(Start: 32 @7867 has 119 MA's), (39, 7927), (50, 8011), (70, 8233), (79, 8314), (80, 8320),

Gene: Golden_14 Start: 8183, Stop: 8680, Start Num: 30
Candidate Starts for Golden_14:
(Start: 30 @8183 has 81 MA's), (41, 8255), (43, 8276), (50, 8327), (65, 8492), (83, 8651),

Gene: GoneGirl_15 Start: 8358, Stop: 8855, Start Num: 32
Candidate Starts for GoneGirl_15:
(23, 8235), (24, 8253), (Start: 32 @8358 has 119 MA's), (39, 8418), (50, 8502), (64, 8664), (72, 8733), (79, 8805), (80, 8811), (85, 8835),

Gene: Gorpy_15 Start: 9055, Stop: 9570, Start Num: 35
Candidate Starts for Gorpy_15:
(Start: 35 @9055 has 54 MA's), (47, 9166), (67, 9385), (71, 9436), (72, 9442), (78, 9496), (84, 9541),

Gene: GreenIvy_15 Start: 8369, Stop: 8863, Start Num: 32
Candidate Starts for GreenIvy_15:
(Start: 32 @8369 has 119 MA's), (36, 8417), (56, 8603), (60, 8651), (68, 8702), (77, 8792),

Gene: Greys_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Greys_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Gubbabump_14 Start: 8147, Stop: 8647, Start Num: 30
Candidate Starts for Gubbabump_14:
(Start: 30 @8147 has 81 MA's), (39, 8210), (40, 8219), (50, 8294), (79, 8597), (80, 8603),

Gene: Guetzie_14 Start: 8177, Stop: 8674, Start Num: 30
Candidate Starts for Guetzie_14:
(Start: 30 @8177 has 81 MA's), (41, 8249), (43, 8270), (50, 8321), (65, 8486), (83, 8645),

Gene: GumGum_15 Start: 9124, Stop: 9639, Start Num: 35
Candidate Starts for GumGum_15:
(Start: 35 @9124 has 54 MA's), (47, 9235), (67, 9454), (71, 9505), (78, 9565), (84, 9610),

Gene: HairyMan_12 Start: 7666, Stop: 8160, Start Num: 32
Candidate Starts for HairyMan_12:
(Start: 32 @7666 has 119 MA's), (50, 7810), (56, 7900), (65, 7975), (85, 8143),

Gene: Hamlet_14 Start: 8265, Stop: 8762, Start Num: 32
Candidate Starts for Hamlet_14:
(8, 7800), (10, 7836), (Start: 32 @8265 has 119 MA's), (39, 8325), (50, 8409), (64, 8571), (72, 8640), (79, 8712), (80, 8718),

Gene: HanSolo_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for HanSolo_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: HankSprout_15 Start: 8025, Stop: 8525, Start Num: 30
Candidate Starts for HankSprout_15:
(Start: 30 @8025 has 81 MA's), (39, 8088), (40, 8097), (50, 8172), (79, 8475), (80, 8481),

Gene: Hasitha_15 Start: 8370, Stop: 8864, Start Num: 32
Candidate Starts for Hasitha_15:

(4, 7797), (5, 7821), (6, 7839), (7, 7872), (8, 7911), (12, 7971), (Start: 32 @8370 has 119 MA's), (36, 8418), (56, 8604), (60, 8652), (68, 8703), (77, 8793),

Gene: HavenFinLeoSun_15 Start: 8095, Stop: 8592, Start Num: 32
Candidate Starts for HavenFinLeoSun_15:
(Start: 32 @8095 has 119 MA's), (39, 8155), (50, 8239), (64, 8401), (69, 8452), (79, 8542), (80, 8548), (85, 8572),

Gene: Henrique_14 Start: 9173, Stop: 9688, Start Num: 35
Candidate Starts for Henrique_14:
(Start: 35 @9173 has 54 MA's), (46, 9281), (47, 9284), (61, 9479), (67, 9503), (71, 9554), (72, 9560), (78, 9614), (84, 9659),

Gene: HerculesXL_15 Start: 8449, Stop: 8949, Start Num: 32
Candidate Starts for HerculesXL_15:
(Start: 32 @8449 has 119 MA's), (36, 8500), (39, 8512), (50, 8596), (56, 8686), (60, 8734), (68, 8785), (71, 8821), (72, 8827), (73, 8836), (80, 8905),

Gene: Hestia_15 Start: 9159, Stop: 9668, Start Num: 35
Candidate Starts for Hestia_15:
(Start: 35 @9159 has 54 MA's), (46, 9267), (47, 9270), (49, 9288), (58, 9399), (61, 9465), (71, 9540), (72, 9546), (75, 9579),

Gene: Hillester_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for Hillester_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: HotPotato_14 Start: 9177, Stop: 9692, Start Num: 35
Candidate Starts for HotPotato_14:
(Start: 35 @9177 has 54 MA's), (46, 9285), (47, 9288), (61, 9483), (67, 9507), (71, 9558), (72, 9564), (78, 9618), (84, 9663),

Gene: HungryHenry_14 Start: 8146, Stop: 8646, Start Num: 30
Candidate Starts for HungryHenry_14:
(Start: 30 @8146 has 81 MA's), (39, 8209), (40, 8218), (50, 8293), (79, 8596), (80, 8602),

Gene: Ilzat_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Ilzat_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Inventa_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Inventa_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Ioannes_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Ioannes_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Isolde_16 Start: 9117, Stop: 9626, Start Num: 35
Candidate Starts for Isolde_16:
(Start: 35 @9117 has 54 MA's), (38, 9162), (53, 9273), (66, 9444), (67, 9447), (78, 9558),

Gene: Ixel_14 Start: 8024, Stop: 8521, Start Num: 31

Candidate Starts for Ixel_14:
(Start: 31 @8024 has 1 MA's), (37, 8081), (50, 8171), (56, 8261), (60, 8309), (70, 8393), (71, 8396), (73, 8411),

Gene: JakeTheSnake_15 Start: 9052, Stop: 9561, Start Num: 35
Candidate Starts for JakeTheSnake_15:
(Start: 35 @9052 has 54 MA's), (53, 9208), (67, 9382),

Gene: Janus167_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Janus167_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: JasonD_16 Start: 8279, Stop: 8776, Start Num: 32
Candidate Starts for JasonD_16:
(Start: 32 @8279 has 119 MA's), (39, 8339), (50, 8423), (64, 8585), (79, 8726), (80, 8732), (85, 8756),

Gene: JasperRussell_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for JasperRussell_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: JellyBread_15 Start: 9039, Stop: 9554, Start Num: 35
Candidate Starts for JellyBread_15:
(Start: 35 @9039 has 54 MA's), (47, 9150), (67, 9369), (71, 9420), (72, 9426), (78, 9480), (84, 9525),

Gene: Jemerald_15 Start: 9302, Stop: 9796, Start Num: 32
Candidate Starts for Jemerald_15:
(19, 9161), (20, 9185), (Start: 32 @9302 has 119 MA's), (41, 9374), (56, 9536), (64, 9608), (66, 9617), (80, 9755), (85, 9779),

Gene: Jenos_16 Start: 8606, Stop: 9103, Start Num: 32
Candidate Starts for Jenos_16:
(13, 8213), (15, 8243), (16, 8255), (Start: 32 @8606 has 119 MA's), (39, 8666), (50, 8750), (64, 8912), (79, 9053), (80, 9059), (85, 9083),

Gene: Jerbirus_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Jerbirus_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: JeriBeth_14 Start: 7992, Stop: 8492, Start Num: 30
Candidate Starts for JeriBeth_14:
(Start: 30 @7992 has 81 MA's), (39, 8055), (40, 8064), (50, 8139), (79, 8442), (80, 8448),

Gene: Jingles_14 Start: 8113, Stop: 8610, Start Num: 30
Candidate Starts for Jingles_14:
(Start: 30 @8113 has 81 MA's), (39, 8176), (50, 8260), (71, 8485), (83, 8584),

Gene: Juanyo_13 Start: 8083, Stop: 8580, Start Num: 32
Candidate Starts for Juanyo_13:
(Start: 32 @8083 has 119 MA's), (36, 8131), (39, 8143), (43, 8176), (50, 8227), (56, 8317), (57, 8329), (64, 8389), (72, 8458),

Gene: Judy_14 Start: 9214, Stop: 9729, Start Num: 35
Candidate Starts for Judy_14:

(Start: 35 @9214 has 54 MA's), (46, 9322), (47, 9325), (61, 9520), (67, 9544), (71, 9595), (72, 9601), (78, 9655), (84, 9700),

Gene: Juicer_15 Start: 9302, Stop: 9796, Start Num: 32
Candidate Starts for Juicer_15:
(19, 9161), (20, 9185), (Start: 32 @9302 has 119 MA's), (41, 9374), (56, 9536), (64, 9608), (66, 9617), (80, 9755), (85, 9779),

Gene: Kabloowy_15 Start: 9136, Stop: 9645, Start Num: 35
Candidate Starts for Kabloowy_15:
(Start: 35 @9136 has 54 MA's), (46, 9244), (47, 9247), (58, 9376), (61, 9442), (71, 9517), (72, 9523), (75, 9556),

Gene: Kale_14 Start: 8160, Stop: 8660, Start Num: 30
Candidate Starts for Kale_14:
(Start: 30 @8160 has 81 MA's), (39, 8223), (40, 8232), (50, 8307), (79, 8610), (80, 8616),

Gene: KannH_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for KannH_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Karkharias_14 Start: 9173, Stop: 9688, Start Num: 35
Candidate Starts for Karkharias_14:
(Start: 35 @9173 has 54 MA's), (46, 9281), (47, 9284), (61, 9479), (67, 9503), (72, 9560), (78, 9614),

Gene: KatChan_15 Start: 8375, Stop: 8869, Start Num: 32
Candidate Starts for KatChan_15:
(Start: 32 @8375 has 119 MA's), (39, 8435), (50, 8519), (56, 8609), (73, 8759), (80, 8828), (85, 8852),

Gene: Kauala_14 Start: 8107, Stop: 8607, Start Num: 30
Candidate Starts for Kauala_14:
(26, 8023), (Start: 30 @8107 has 81 MA's), (50, 8254), (56, 8344), (83, 8578),

Gene: Kavo_14 Start: 8281, Stop: 8781, Start Num: 32
Candidate Starts for Kavo_14:
(Start: 32 @8281 has 119 MA's), (36, 8332), (39, 8344), (50, 8428), (56, 8518), (65, 8593), (71, 8653), (72, 8659), (73, 8668), (80, 8737),

Gene: KayMoney_14 Start: 9170, Stop: 9685, Start Num: 35
Candidate Starts for KayMoney_14:
(Start: 35 @9170 has 54 MA's), (47, 9281), (58, 9410), (67, 9500), (71, 9551), (72, 9557), (78, 9611), (84, 9656),

Gene: KellyGreen_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for KellyGreen_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: KingJulien_14 Start: 8256, Stop: 8753, Start Num: 32
Candidate Starts for KingJulien_14:
(8, 7791), (10, 7827), (Start: 32 @8256 has 119 MA's), (39, 8316), (50, 8400), (64, 8562), (72, 8631), (79, 8703), (80, 8709),

Gene: Klimt_14 Start: 8139, Stop: 8636, Start Num: 32

Candidate Starts for Klimt_14:
(Start: 32 @8139 has 119 MA's), (39, 8199), (50, 8283), (65, 8448), (70, 8505), (79, 8586), (80, 8592),

Gene: Knox_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Knox_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Koji_14 Start: 8232, Stop: 8732, Start Num: 30
Candidate Starts for Koji_14:
(Start: 30 @8232 has 81 MA's), (39, 8295), (50, 8379), (71, 8604), (83, 8703),

Gene: Kouch_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Kouch_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Kurt1_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Kurt1_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Lasker_15 Start: 9054, Stop: 9569, Start Num: 35
Candidate Starts for Lasker_15:
(Start: 35 @9054 has 54 MA's), (47, 9165), (67, 9384), (71, 9435), (72, 9441), (78, 9495), (84, 9540),

Gene: Lawnathon_15 Start: 9197, Stop: 9712, Start Num: 35
Candidate Starts for Lawnathon_15:
(Start: 35 @9197 has 54 MA's), (47, 9308), (61, 9503), (71, 9578), (72, 9584), (78, 9638), (84, 9683),

Gene: LeBruni_15 Start: 9074, Stop: 9583, Start Num: 35
Candidate Starts for LeBruni_15:
(Start: 35 @9074 has 54 MA's), (47, 9185), (58, 9314), (61, 9380), (67, 9404), (71, 9455), (72, 9461), (78, 9515),

Gene: Leafus_14 Start: 8403, Stop: 8900, Start Num: 32
Candidate Starts for Leafus_14:
(Start: 32 @8403 has 119 MA's), (39, 8463), (50, 8547), (64, 8709), (72, 8778), (79, 8850), (80, 8856),

Gene: Librie_15 Start: 8370, Stop: 8864, Start Num: 32
Candidate Starts for Librie_15:
(4, 7797), (5, 7821), (6, 7839), (7, 7872), (8, 7911), (12, 7971), (Start: 32 @8370 has 119 MA's), (36, 8418), (56, 8604), (60, 8652), (68, 8703), (77, 8793),

Gene: LilTerminator_15 Start: 8376, Stop: 8870, Start Num: 32
Candidate Starts for LilTerminator_15:
(Start: 32 @8376 has 119 MA's), (36, 8424), (56, 8610), (60, 8658), (68, 8709), (77, 8799),

Gene: LilyBell_14 Start: 9189, Stop: 9704, Start Num: 35
Candidate Starts for LilyBell_14:
(Start: 35 @9189 has 54 MA's), (46, 9297), (47, 9300), (61, 9495), (63, 9504), (67, 9519), (71, 9570), (72, 9576), (78, 9630), (84, 9675),

Gene: LittleRon_14 Start: 9144, Stop: 9659, Start Num: 35
Candidate Starts for LittleRon_14:

(Start: 35 @9144 has 54 MA's), (47, 9255), (58, 9384), (67, 9474), (71, 9525), (72, 9531), (78, 9585), (84, 9630),

Gene: Lovelyunicorn_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Lovelyunicorn_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Lucky3_14 Start: 8183, Stop: 8680, Start Num: 30
Candidate Starts for Lucky3_14:
(Start: 30 @8183 has 81 MA's), (41, 8255), (43, 8276), (50, 8327), (65, 8492), (83, 8651),

Gene: Ludgate_14 Start: 7849, Stop: 8349, Start Num: 30
Candidate Starts for Ludgate_14:
(Start: 30 @7849 has 81 MA's), (39, 7912), (40, 7921), (50, 7996), (79, 8299), (80, 8305),

Gene: Luna18_15 Start: 8375, Stop: 8869, Start Num: 32
Candidate Starts for Luna18_15:
(Start: 32 @8375 has 119 MA's), (39, 8435), (50, 8519), (56, 8609), (73, 8759), (80, 8828), (85, 8852),

Gene: MCubed_13 Start: 7951, Stop: 8448, Start Num: 32
Candidate Starts for MCubed_13:
(Start: 32 @7951 has 119 MA's), (36, 7999), (39, 8011), (50, 8095), (56, 8185), (64, 8257), (65, 8260), (66, 8266), (80, 8404),

Gene: MUWow_14 Start: 9139, Stop: 9654, Start Num: 35
Candidate Starts for MUWow_14:
(Start: 35 @9139 has 54 MA's), (47, 9250), (67, 9469), (71, 9520), (72, 9526), (78, 9580), (84, 9625),

Gene: MaeLinda_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for MaeLinda_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: ManRay_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for ManRay_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: Mandalorian_13 Start: 8117, Stop: 8611, Start Num: 32
Candidate Starts for Mandalorian_13:
(Start: 32 @8117 has 119 MA's), (36, 8165), (39, 8177), (50, 8261), (56, 8351), (57, 8363), (64, 8423), (68, 8450),

Gene: Mapleville_14 Start: 9267, Stop: 9782, Start Num: 35
Candidate Starts for Mapleville_14:
(Start: 35 @9267 has 54 MA's), (47, 9378), (61, 9573), (71, 9648), (72, 9654), (78, 9708), (84, 9753),

Gene: Martin_15 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Martin_15:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: MaterMagnus_15 Start: 9047, Stop: 9562, Start Num: 35
Candidate Starts for MaterMagnus_15:
(Start: 35 @9047 has 54 MA's), (47, 9158), (67, 9377), (71, 9428), (72, 9434), (78, 9488), (84, 9533),

Gene: McGalleon_15 Start: 8725, Stop: 9222, Start Num: 32
Candidate Starts for McGalleon_15:
(10, 8299), (13, 8332), (15, 8362), (16, 8374), (Start: 32 @8725 has 119 MA's), (39, 8785), (50, 8869), (64, 9031), (79, 9172), (80, 9178), (85, 9202),

Gene: Mercedes_14 Start: 8116, Stop: 8610, Start Num: 32
Candidate Starts for Mercedes_14:
(1, 7453), (2, 7474), (3, 7495), (7, 7627), (9, 7675), (Start: 32 @8116 has 119 MA's), (34, 8125), (36, 8164), (56, 8350), (60, 8398), (65, 8425), (68, 8449), (77, 8539), (81, 8572),

Gene: Merida02_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for Merida02_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: MidnightRain_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for MidnightRain_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: MillyPhilly_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for MillyPhilly_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: MiniVolent_13 Start: 8069, Stop: 8566, Start Num: 32
Candidate Starts for MiniVolent_13:
(Start: 32 @8069 has 119 MA's), (36, 8117), (39, 8129), (50, 8213), (56, 8303), (57, 8315), (64, 8375),

Gene: MonChoix_13 Start: 7913, Stop: 8407, Start Num: 32
Candidate Starts for MonChoix_13:
(Start: 32 @7913 has 119 MA's), (39, 7973), (71, 8282), (79, 8360), (80, 8366),

Gene: Morrigan_15 Start: 9275, Stop: 9772, Start Num: 32
Candidate Starts for Morrigan_15:
(Start: 32 @9275 has 119 MA's), (39, 9335), (50, 9419), (56, 9509), (73, 9659), (80, 9728), (85, 9752),

Gene: MrWorldwide_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for MrWorldwide_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: MurphyJoseph_15 Start: 9049, Stop: 9558, Start Num: 35
Candidate Starts for MurphyJoseph_15:
(Start: 35 @9049 has 54 MA's), (53, 9205), (67, 9379), (84, 9535),

Gene: Nagem_14 Start: 7849, Stop: 8349, Start Num: 30
Candidate Starts for Nagem_14:
(Start: 30 @7849 has 81 MA's), (39, 7912), (40, 7921), (50, 7996), (79, 8299), (80, 8305),

Gene: Nattles_14 Start: 8143, Stop: 8640, Start Num: 32
Candidate Starts for Nattles_14:
(Start: 32 @8143 has 119 MA's), (39, 8203), (50, 8287), (65, 8452), (70, 8509), (79, 8590), (80, 8596),

Gene: Nebulous_15 Start: 9114, Stop: 9608, Start Num: 32
Candidate Starts for Nebulous_15:

(24, 9003), (Start: 32 @9114 has 119 MA's), (36, 9162), (39, 9174), (43, 9207), (50, 9258), (56, 9348), (68, 9447), (71, 9483), (73, 9498), (77, 9537), (85, 9591),

Gene: Neferthena_15 Start: 9124, Stop: 9618, Start Num: 32
Candidate Starts for Neferthena_15:
(Start: 32 @9124 has 119 MA's), (36, 9172), (50, 9268), (56, 9358), (60, 9406), (68, 9457), (71, 9493), (76, 9532), (77, 9547), (80, 9577), (85, 9601),

Gene: NewKitty_16 Start: 9276, Stop: 9791, Start Num: 35
Candidate Starts for NewKitty_16:
(Start: 35 @9276 has 54 MA's), (47, 9387), (67, 9606), (71, 9657), (72, 9663), (78, 9717), (84, 9762),

Gene: NickSell_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for NickSell_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: NidoQ_14 Start: 9232, Stop: 9747, Start Num: 35
Candidate Starts for NidoQ_14:
(Start: 35 @9232 has 54 MA's), (46, 9340), (47, 9343), (61, 9538), (67, 9562), (71, 9613), (72, 9619), (78, 9673), (84, 9718),

Gene: NikkiHotWheels_14 Start: 9172, Stop: 9687, Start Num: 35
Candidate Starts for NikkiHotWheels_14:
(Start: 35 @9172 has 54 MA's), (46, 9280), (47, 9283), (61, 9478), (67, 9502), (71, 9553), (72, 9559), (78, 9613), (84, 9658),

Gene: Nucci_13 Start: 8106, Stop: 8600, Start Num: 32
Candidate Starts for Nucci_13:
(21, 7995), (25, 8007), (Start: 32 @8106 has 119 MA's), (36, 8154), (39, 8166), (50, 8250), (56, 8340), (57, 8352), (64, 8412), (68, 8439),

Gene: Nyilah_14 Start: 9166, Stop: 9681, Start Num: 35
Candidate Starts for Nyilah_14:
(Start: 35 @9166 has 54 MA's), (46, 9274), (47, 9277), (61, 9472), (67, 9496), (71, 9547), (72, 9553), (78, 9607), (84, 9652),

Gene: Oats_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for Oats_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: OldNelly_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for OldNelly_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Orpington_13 Start: 7939, Stop: 8433, Start Num: 32
Candidate Starts for Orpington_13:
(Start: 32 @7939 has 119 MA's), (36, 7987), (39, 7999), (50, 8083), (56, 8173), (64, 8245), (65, 8248), (66, 8254), (71, 8308),

Gene: Oxtober96_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Oxtober96_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: PSirce_13 Start: 7938, Stop: 8432, Start Num: 32
Candidate Starts for PSirce_13:
(Start: 32 @7938 has 119 MA's), (36, 7986), (39, 7998), (50, 8082), (56, 8172), (64, 8244), (65, 8247), (66, 8253), (71, 8307),

Gene: Pajaza_13 Start: 8136, Stop: 8636, Start Num: 32
Candidate Starts for Pajaza_13:
(Start: 32 @8136 has 119 MA's), (62, 8433), (85, 8613),

Gene: Papafritta_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Papafritta_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: ParleG_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for ParleG_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Peas_14 Start: 9176, Stop: 9691, Start Num: 35
Candidate Starts for Peas_14:
(Start: 35 @9176 has 54 MA's), (47, 9287), (61, 9482), (67, 9506), (71, 9557), (72, 9563), (78, 9617), (84, 9662),

Gene: Peep_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for Peep_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: PeggyLeg03_14 Start: 9215, Stop: 9730, Start Num: 35
Candidate Starts for PeggyLeg03_14:
(Start: 35 @9215 has 54 MA's), (46, 9323), (47, 9326), (61, 9521), (67, 9545), (71, 9596), (72, 9602), (78, 9656), (84, 9701),

Gene: Penta_14 Start: 8278, Stop: 8778, Start Num: 32
Candidate Starts for Penta_14:
(18, 8044), (Start: 32 @8278 has 119 MA's), (39, 8341), (50, 8425), (56, 8515), (60, 8563), (71, 8650), (72, 8656), (73, 8665), (80, 8734),

Gene: Peppino_14 Start: 8256, Stop: 8753, Start Num: 32
Candidate Starts for Peppino_14:
(8, 7791), (10, 7827), (Start: 32 @8256 has 119 MA's), (39, 8316), (50, 8400), (64, 8562), (72, 8631), (79, 8703), (80, 8709),

Gene: Persistence_14 Start: 9116, Stop: 9625, Start Num: 35
Candidate Starts for Persistence_14:
(Start: 35 @9116 has 54 MA's), (67, 9446), (69, 9485), (78, 9557), (82, 9596),

Gene: Phanita_13 Start: 7926, Stop: 8420, Start Num: 32
Candidate Starts for Phanita_13:
(Start: 32 @7926 has 119 MA's), (36, 7974), (39, 7986), (50, 8070), (56, 8160), (64, 8232), (65, 8235), (66, 8241),

Gene: Pherbot_14 Start: 8098, Stop: 8598, Start Num: 30
Candidate Starts for Pherbot_14:
(Start: 30 @8098 has 81 MA's), (39, 8161), (50, 8245), (71, 8470), (83, 8569),

Gene: Pherferi_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Pherferi_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Phiderman_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for Phiderman_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: PhillyPhantom_14 Start: 8265, Stop: 8762, Start Num: 32
Candidate Starts for PhillyPhantom_14:
(8, 7800), (10, 7836), (Start: 32 @8265 has 119 MA's), (39, 8325), (50, 8409), (64, 8571), (72, 8640), (79, 8712), (80, 8718),

Gene: Phireproof_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Phireproof_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Phrank15_14 Start: 9199, Stop: 9714, Start Num: 35
Candidate Starts for Phrank15_14:
(Start: 35 @9199 has 54 MA's), (47, 9310), (67, 9529), (71, 9580), (72, 9586), (78, 9640), (84, 9685),

Gene: PhredFlintston_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for PhredFlintston_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Phriends_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Phriends_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Pikmin_13 Start: 8136, Stop: 8636, Start Num: 32
Candidate Starts for Pikmin_13:
(Start: 32 @8136 has 119 MA's), (62, 8433), (85, 8613),

Gene: Pocket_14 Start: 8143, Stop: 8643, Start Num: 30
Candidate Starts for Pocket_14:
(Start: 30 @8143 has 81 MA's), (39, 8206), (40, 8215), (50, 8290), (79, 8593), (80, 8599),

Gene: PrincePhergus_14 Start: 8102, Stop: 8602, Start Num: 30
Candidate Starts for PrincePhergus_14:
(Start: 30 @8102 has 81 MA's), (39, 8165), (50, 8249), (71, 8474), (83, 8573),

Gene: Pucara_14 Start: 9176, Stop: 9691, Start Num: 35
Candidate Starts for Pucara_14:
(Start: 35 @9176 has 54 MA's), (46, 9284), (47, 9287), (61, 9482), (67, 9506), (71, 9557), (72, 9563), (78, 9617), (84, 9662),

Gene: PuppyEggo_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for PuppyEggo_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: QuadZero_15 Start: 8382, Stop: 8876, Start Num: 32
Candidate Starts for QuadZero_15:

(Start: 32 @8382 has 119 MA's), (36, 8430), (56, 8616), (60, 8664), (68, 8715), (77, 8805),

Gene: Quartz_13 Start: 8118, Stop: 8612, Start Num: 32
Candidate Starts for Quartz_13:
(Start: 32 @8118 has 119 MA's), (36, 8166), (39, 8178), (50, 8262), (56, 8352), (57, 8364), (64, 8424),

Gene: Raccoon_14 Start: 8262, Stop: 8759, Start Num: 32
Candidate Starts for Raccoon_14:
(8, 7797), (10, 7833), (Start: 32 @8262 has 119 MA's), (39, 8322), (50, 8406), (64, 8568), (72, 8637), (79, 8709), (80, 8715),

Gene: RadFad_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for RadFad_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: Raphaella_15 Start: 9046, Stop: 9561, Start Num: 35
Candidate Starts for Raphaella_15:
(Start: 35 @9046 has 54 MA's), (47, 9157), (67, 9376), (71, 9427), (72, 9433), (78, 9487), (84, 9532),

Gene: Rapheph_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Rapheph_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Raptor_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Raptor_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Redfield_14 Start: 8264, Stop: 8761, Start Num: 32
Candidate Starts for Redfield_14:
(8, 7799), (10, 7835), (Start: 32 @8264 has 119 MA's), (39, 8324), (50, 8408), (64, 8570), (72, 8639), (79, 8711), (80, 8717),

Gene: RenegadeRaider_14 Start: 8101, Stop: 8601, Start Num: 30
Candidate Starts for RenegadeRaider_14:
(Start: 30 @8101 has 81 MA's), (39, 8164), (50, 8248), (71, 8473), (83, 8572),

Gene: Renzie_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for Renzie_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: Richie_15 Start: 9061, Stop: 9576, Start Num: 35
Candidate Starts for Richie_15:
(Start: 35 @9061 has 54 MA's), (47, 9172), (67, 9391), (71, 9442), (72, 9448), (78, 9502), (84, 9547),

Gene: Riyhil_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Riyhil_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Robinson_14 Start: 7848, Stop: 8345, Start Num: 32
Candidate Starts for Robinson_14:
(Start: 32 @7848 has 119 MA's), (39, 7908), (50, 7992), (70, 8214), (79, 8295), (80, 8301),

Gene: Rog141_14 Start: 8145, Stop: 8645, Start Num: 30

Candidate Starts for Rog141_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: RosieMae_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for RosieMae_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: SJay_14 Start: 7850, Stop: 8350, Start Num: 30
Candidate Starts for SJay_14:
(Start: 30 @7850 has 81 MA's), (39, 7913), (40, 7922), (50, 7997), (79, 8300), (80, 8306),

Gene: Sakai_15 Start: 9055, Stop: 9570, Start Num: 35
Candidate Starts for Sakai_15:
(Start: 35 @9055 has 54 MA's), (47, 9166), (67, 9385), (71, 9436), (72, 9442), (78, 9496), (84, 9541),

Gene: Sansa_12 Start: 7947, Stop: 8444, Start Num: 32
Candidate Starts for Sansa_12:
(Start: 32 @7947 has 119 MA's), (36, 7995), (39, 8007), (50, 8091), (56, 8181), (64, 8253), (65, 8256), (66, 8262), (80, 8400),

Gene: Saratos_13 Start: 7927, Stop: 8421, Start Num: 32
Candidate Starts for Saratos_13:
(Start: 32 @7927 has 119 MA's), (36, 7975), (39, 7987), (50, 8071), (56, 8161), (64, 8233), (65, 8236), (66, 8242), (71, 8296),

Gene: Satrap_15 Start: 9002, Stop: 9511, Start Num: 35
Candidate Starts for Satrap_15:
(Start: 35 @9002 has 54 MA's), (46, 9110), (47, 9113), (58, 9242), (61, 9308), (66, 9329), (71, 9383), (75, 9422),

Gene: Schimmels22_15 Start: 8808, Stop: 9308, Start Num: 32
Candidate Starts for Schimmels22_15:
(Start: 32 @8808 has 119 MA's), (36, 8859), (39, 8871), (43, 8904), (50, 8955), (56, 9045), (60, 9093), (71, 9180), (72, 9186), (80, 9264),

Gene: Schnapsidee_14 Start: 8255, Stop: 8752, Start Num: 32
Candidate Starts for Schnapsidee_14:
(8, 7790), (10, 7826), (Start: 32 @8255 has 119 MA's), (39, 8315), (50, 8399), (64, 8561), (72, 8630), (79, 8702), (80, 8708),

Gene: Schubert_14 Start: 8290, Stop: 8787, Start Num: 32
Candidate Starts for Schubert_14:
(22, 8158), (Start: 32 @8290 has 119 MA's), (39, 8353), (71, 8662),

Gene: Scissor2024_15 Start: 8446, Stop: 8946, Start Num: 32
Candidate Starts for Scissor2024_15:
(Start: 32 @8446 has 119 MA's), (36, 8497), (39, 8509), (50, 8593), (56, 8683), (60, 8731), (68, 8782), (71, 8818), (72, 8824), (73, 8833), (80, 8902),

Gene: Seahorse_16 Start: 9301, Stop: 9810, Start Num: 35
Candidate Starts for Seahorse_16:
(Start: 35 @9301 has 54 MA's), (53, 9457), (67, 9631),

Gene: Sedgewig_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Sedgewig_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: ShaiHulud_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for ShaiHulud_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Shamu_13 Start: 7939, Stop: 8433, Start Num: 32
Candidate Starts for Shamu_13:
(Start: 32 @7939 has 119 MA's), (36, 7987), (39, 7999), (50, 8083), (56, 8173), (64, 8245), (65, 8248), (66, 8254), (71, 8308),

Gene: Shee_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for Shee_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: Shukran_15 Start: 9002, Stop: 9511, Start Num: 35
Candidate Starts for Shukran_15:
(Start: 35 @9002 has 54 MA's), (46, 9110), (47, 9113), (58, 9242), (61, 9308), (66, 9329), (71, 9383), (75, 9422),

Gene: Sinatra_14 Start: 8099, Stop: 8599, Start Num: 30
Candidate Starts for Sinatra_14:
(Start: 30 @8099 has 81 MA's), (39, 8162), (50, 8246), (71, 8471), (83, 8570),

Gene: SirVictor_14 Start: 8177, Stop: 8674, Start Num: 30
Candidate Starts for SirVictor_14:
(Start: 30 @8177 has 81 MA's), (41, 8249), (43, 8270), (50, 8321), (65, 8486), (83, 8645),

Gene: SoilGremlin_14 Start: 7852, Stop: 8352, Start Num: 30
Candidate Starts for SoilGremlin_14:
(Start: 30 @7852 has 81 MA's), (39, 7915), (40, 7924), (50, 7999), (79, 8302), (80, 8308),

Gene: SolidSnake_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for SolidSnake_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: SonDevVon_14 Start: 9048, Stop: 9563, Start Num: 35
Candidate Starts for SonDevVon_14:
(Start: 35 @9048 has 54 MA's), (47, 9159), (67, 9378), (71, 9429), (72, 9435), (78, 9489), (84, 9534),

Gene: SonOfLevi_14 Start: 8139, Stop: 8636, Start Num: 32
Candidate Starts for SonOfLevi_14:
(Start: 32 @8139 has 119 MA's), (39, 8199), (50, 8283), (65, 8448), (70, 8505), (79, 8586), (80, 8592),

Gene: Soror1_14 Start: 8265, Stop: 8762, Start Num: 32
Candidate Starts for Soror1_14:
(8, 7800), (10, 7836), (Start: 32 @8265 has 119 MA's), (39, 8325), (50, 8409), (64, 8571), (72, 8640), (79, 8712), (80, 8718),

Gene: SpicyFrank_15 Start: 9125, Stop: 9640, Start Num: 35
Candidate Starts for SpicyFrank_15:

(Start: 35 @9125 has 54 MA's), (47, 9236), (61, 9431), (63, 9440), (72, 9512), (78, 9566), (84, 9611),

Gene: Sporco_15 Start: 9103, Stop: 9618, Start Num: 35
Candidate Starts for Sporco_15:
(Start: 35 @9103 has 54 MA's), (47, 9214), (67, 9433), (71, 9484), (72, 9490), (78, 9544), (84, 9589),

Gene: Stanktossa_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for Stanktossa_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: StingRay_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for StingRay_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: StirfryIV_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for StirfryIV_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: Stormbreaker8_14 Start: 8256, Stop: 8753, Start Num: 32
Candidate Starts for Stormbreaker8_14:
(8, 7791), (10, 7827), (Start: 32 @8256 has 119 MA's), (39, 8316), (50, 8400), (64, 8562), (72, 8631), (79, 8703), (80, 8709),

Gene: Strathdee_14 Start: 7855, Stop: 8352, Start Num: 32
Candidate Starts for Strathdee_14:
(Start: 32 @7855 has 119 MA's), (39, 7915), (50, 7999), (70, 8221), (79, 8302), (80, 8308),

Gene: Superfresh_14 Start: 7845, Stop: 8342, Start Num: 32
Candidate Starts for Superfresh_14:
(Start: 32 @7845 has 119 MA's), (39, 7905), (50, 7989), (65, 8154), (70, 8211), (79, 8292), (80, 8298),

Gene: Symere_14 Start: 8145, Stop: 8645, Start Num: 30
Candidate Starts for Symere_14:
(Start: 30 @8145 has 81 MA's), (39, 8208), (40, 8217), (50, 8292), (79, 8595), (80, 8601),

Gene: TatarkaPM_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for TatarkaPM_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Teagan_14 Start: 7849, Stop: 8349, Start Num: 30
Candidate Starts for Teagan_14:
(Start: 30 @7849 has 81 MA's), (39, 7912), (40, 7921), (50, 7996), (79, 8299), (80, 8305),

Gene: TeddyBear_14 Start: 8158, Stop: 8658, Start Num: 30
Candidate Starts for TeddyBear_14:
(Start: 30 @8158 has 81 MA's), (39, 8221), (40, 8230), (50, 8305), (79, 8608), (80, 8614),

Gene: Tenda_14 Start: 8156, Stop: 8656, Start Num: 30
Candidate Starts for Tenda_14:
(Start: 30 @8156 has 81 MA's), (39, 8219), (40, 8228), (50, 8303), (79, 8606), (80, 8612),

Gene: ThayneTheZag_15 Start: 9103, Stop: 9618, Start Num: 35
Candidate Starts for ThayneTheZag_15:

(Start: 35 @9103 has 54 MA's), (47, 9214), (58, 9343), (67, 9433), (72, 9490), (75, 9523), (78, 9544),

Gene: Theresita_14 Start: 7692, Stop: 8192, Start Num: 32
Candidate Starts for Theresita_14:
(Start: 32 @7692 has 119 MA's), (39, 7752), (69, 8049), (72, 8067), (85, 8169), (86, 8178),

Gene: Thompsone_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Thompsone_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Thorongil_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Thorongil_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Tiff81_16 Start: 9271, Stop: 9786, Start Num: 35
Candidate Starts for Tiff81_16:
(Start: 35 @9271 has 54 MA's), (46, 9379), (47, 9382), (61, 9577), (67, 9601), (71, 9652), (72, 9658), (78, 9712), (84, 9757),

Gene: TinSulphur_14 Start: 7855, Stop: 8355, Start Num: 30
Candidate Starts for TinSulphur_14:
(Start: 30 @7855 has 81 MA's), (39, 7918), (40, 7927), (50, 8002), (79, 8305), (80, 8311),

Gene: Tinyman4_15 Start: 8449, Stop: 8949, Start Num: 32
Candidate Starts for Tinyman4_15:
(Start: 32 @8449 has 119 MA's), (36, 8500), (39, 8512), (50, 8596), (56, 8686), (60, 8734), (68, 8785), (71, 8821), (72, 8827), (73, 8836), (80, 8905),

Gene: TwoBits_15 Start: 8173, Stop: 8667, Start Num: 32
Candidate Starts for TwoBits_15:
(Start: 32 @8173 has 119 MA's), (36, 8221), (56, 8407), (65, 8482), (68, 8506), (77, 8596), (81, 8629),

Gene: Vafari_15 Start: 8367, Stop: 8861, Start Num: 32
Candidate Starts for Vafari_15:
(Start: 32 @8367 has 119 MA's), (36, 8415), (56, 8601), (60, 8649), (68, 8700), (77, 8790),

Gene: Velene_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Velene_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Vispistious_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for Vispistious_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: Vopal_16 Start: 9118, Stop: 9633, Start Num: 35
Candidate Starts for Vopal_16:
(Start: 35 @9118 has 54 MA's), (47, 9229), (67, 9448), (71, 9499), (72, 9505), (78, 9559), (84, 9604),

Gene: Wardwill_17 Start: 8538, Stop: 9032, Start Num: 32
Candidate Starts for Wardwill_17:
(4, 7965), (5, 7989), (6, 8007), (7, 8040), (8, 8079), (12, 8139), (Start: 32 @8538 has 119 MA's), (36, 8586), (56, 8772), (60, 8820), (68, 8871), (77, 8961),

Gene: WestPM_14 Start: 8287, Stop: 8787, Start Num: 32
Candidate Starts for WestPM_14:
(Start: 32 @8287 has 119 MA's), (39, 8350), (50, 8434), (56, 8524), (60, 8572), (71, 8659), (72, 8665), (73, 8674), (80, 8743),

Gene: WildNOut_14 Start: 7854, Stop: 8351, Start Num: 32
Candidate Starts for WildNOut_14:
(Start: 32 @7854 has 119 MA's), (39, 7914), (50, 7998), (70, 8220), (79, 8301), (80, 8307),

Gene: WilliamStrong_13 Start: 8960, Stop: 9457, Start Num: 32
Candidate Starts for WilliamStrong_13:
(Start: 32 @8960 has 119 MA's), (39, 9020), (50, 9104), (64, 9266), (65, 9269),

Gene: Windest_16 Start: 9103, Stop: 9618, Start Num: 35
Candidate Starts for Windest_16:
(Start: 35 @9103 has 54 MA's), (47, 9214), (67, 9433), (71, 9484), (72, 9490), (78, 9544), (84, 9589),

Gene: Winzigespinne_14 Start: 8144, Stop: 8644, Start Num: 30
Candidate Starts for Winzigespinne_14:
(Start: 30 @8144 has 81 MA's), (39, 8207), (40, 8216), (50, 8291), (79, 8594), (80, 8600),

Gene: Xebius_12 Start: 7927, Stop: 8421, Start Num: 32
Candidate Starts for Xebius_12:
(Start: 32 @7927 has 119 MA's), (36, 7975), (39, 7987), (50, 8071), (56, 8161), (64, 8233), (65, 8236), (66, 8242), (71, 8296),

Gene: YoungHarleezy_15 Start: 9059, Stop: 9574, Start Num: 35
Candidate Starts for YoungHarleezy_15:
(Start: 35 @9059 has 54 MA's), (47, 9170), (67, 9389), (71, 9440), (72, 9446), (78, 9500), (84, 9545),

Gene: YuuY_13 Start: 8110, Stop: 8604, Start Num: 32
Candidate Starts for YuuY_13:
(Start: 32 @8110 has 119 MA's), (36, 8158), (42, 8185), (56, 8344), (57, 8356), (64, 8416),

Gene: Zada_14 Start: 7846, Stop: 8346, Start Num: 30
Candidate Starts for Zada_14:
(Start: 30 @7846 has 81 MA's), (39, 7909), (40, 7918), (50, 7993), (79, 8296), (80, 8302),

Gene: Zayuliv_15 Start: 8358, Stop: 8852, Start Num: 32
Candidate Starts for Zayuliv_15:
(Start: 32 @8358 has 119 MA's), (36, 8406), (56, 8592), (60, 8640), (68, 8691), (77, 8781),

Gene: Zenitsu_13 Start: 7951, Stop: 8448, Start Num: 32
Candidate Starts for Zenitsu_13:
(Start: 32 @7951 has 119 MA's), (36, 7999), (39, 8011), (50, 8095), (56, 8185), (64, 8257), (65, 8260), (66, 8266), (80, 8404),

Gene: Zepp_16 Start: 8367, Stop: 8861, Start Num: 32
Candidate Starts for Zepp_16:
(Start: 32 @8367 has 119 MA's), (36, 8415), (56, 8601), (60, 8649), (68, 8700), (77, 8790),