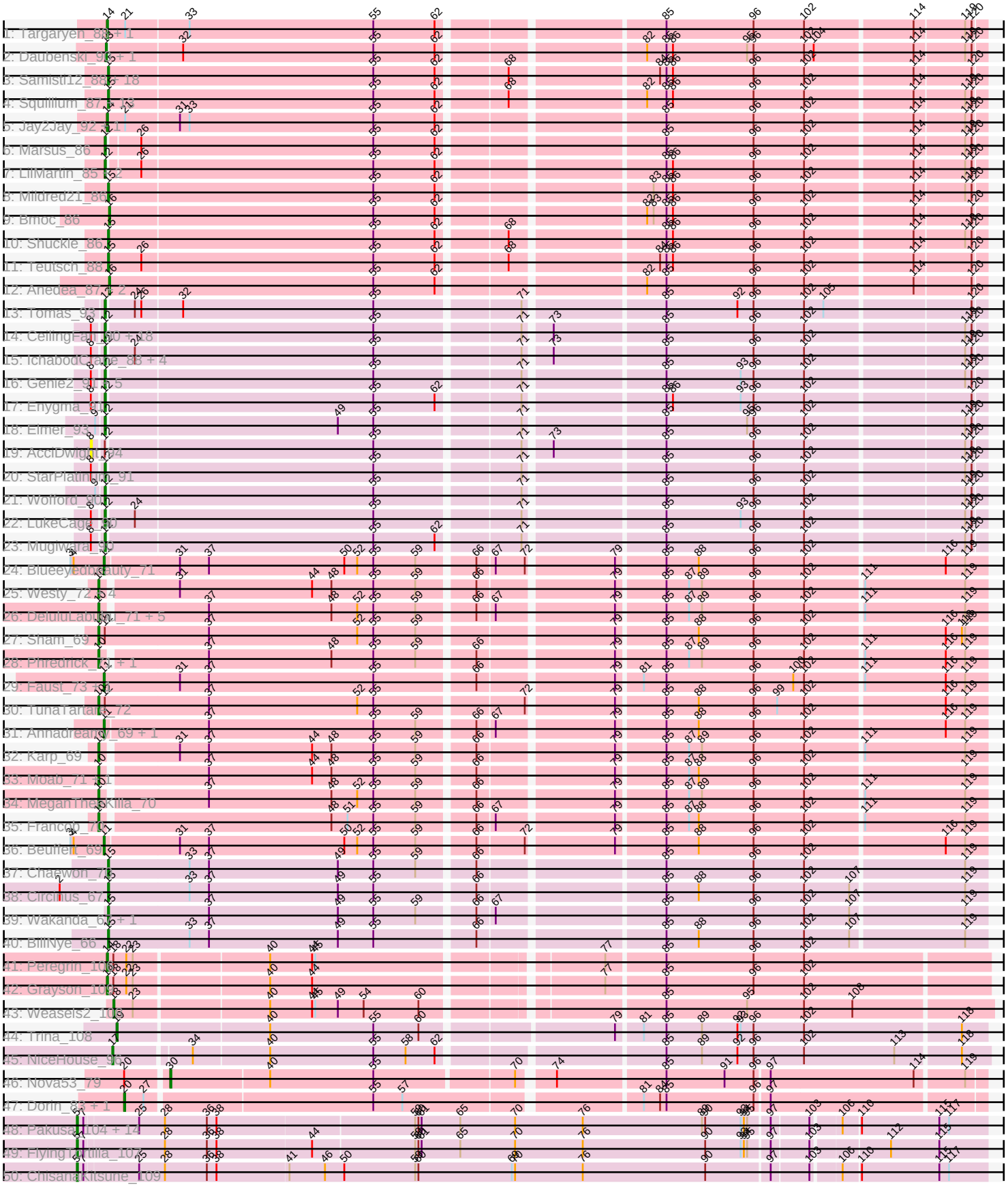
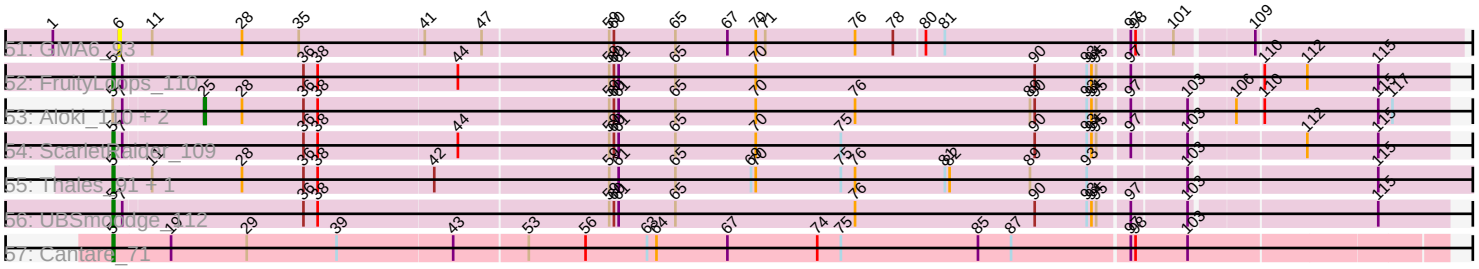
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51: GMA6_113
52: FruityLoops_110
53: Aloki_110 + 2
54: Scarlet_Halo_109
55: Thales_101 + 1
56: UBSmidge_112
57: Cantare_71

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 347340 Report

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

Pham number 347340 has 154 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Targaryen_88, Evy_88
• Track 2 : Daubenski_90, Cadmus_87
• Track 3 : Samisti12_88, Scheme_89, Lululemon_87, EGole_89, ArianaSWT_89, Larnav_88, Cursive_86, PacManQ_87, Leo04_89, Coogler_88, Tribute_86, Peebs_87, HangryHippo_88, BlueOtter_88, Sushi23_87, WashU_88, Pepperwood_88, Watermoore_88, Cross_88
• Track 4 : Squillium_87, Davielle_86, Bartholomune_86, FreddyDRoo_86, PinkiePie_86, Braelyn_88, Liandry_86, PynkPanther_86, WhereRU_85, Paradiddles_83, Eliot67_85, Navo_85, Persimmon_86, NootNoot_83
• Track 5 : Jay2Jay_92, Warpy_91
• Track 6 : Marsus_86
• Track 7 : LilMartin_85, MulchMansion_85, Angela_85
• Track 8 : Mildred21_86
• Track 9 : Bmoc_86
• Track 10 : Shuckle_86
• Track 11 : Teutsch_88
• Track 12 : Anedea_87, LilSaint_86, Riptide_84
• Track 13 : Tomas_93
• Track 14 : CeilingFan_90, Spelly_91, Quaran19_90, Tuesday_94, PumpkinSpice_90, Brizzy_90, Battuta_89, Bordeaux_89, Rikishi_91, Gibbi_95, SaltySpitoon_90, Jollison_90, Spilled_92, Karimac_90, Wipeout_88, TomSawyer_89, Starbow_89, JimJam_91, KentuckyRacer_91
• Track 15 : IchabodCrane_88, Amabiko_91, MindFlayer_88, Daisy123_90, Birchlyn_88
• Track 16 : Genie2_91, BoomerJR_91, AngryGiraffe_90, Stanimal_91, Sollertia_91, Yaboi_91
• Track 17 : Enygma_91
• Track 18 : Elmer_93
• Track 19 : AcciDwight_94
• Track 20 : StarPlatinum_91
• Track 21 : Wofford_90
• Track 22 : LukeCage_90
• Track 23 : Mugiwara_90
• Track 24 : Blueeyedbeauty_71
• Track 25 : Westy_72, Comrade_71, SparkleGoddess_71, Stigma_70, Belfort_73
• Track 26 : DeluluLabubu_71, Forrest_74, Emma1919_73, Jada_72, Maupel_71, Gilson_72

• Track 27 : Sham_69
• Track 28 : Phredrick_71, Kenrey_73
• Track 29 : Faust_73, SeresaTree_73
• Track 30 : TunaTartare_72
• Track 31 : Annadreamy_69, Limpid_68
• Track 32 : Karp_69
• Track 33 : Moab_71, Patelgo_71
• Track 34 : MeganTheeKilla_70
• Track 35 : Francob_70
• Track 36 : Beuffert_69
• Track 37 : Chaewon_70
• Track 38 : Circinus_67
• Track 39 : Wakanda_67, Muntaha_68
• Track 40 : BillNye_66
• Track 41 : Peregrin_106
• Track 42 : Grayson_109
• Track 43 : Weasels2_108
• Track 44 : Trina_108
• Track 45 : NiceHouse_96
• Track 46 : Nova53_79
• Track 47 : Dorin_83, Francesca_83
• Track 48 : Pakusa_104, Argena_109, Mikronejon_112, EmoNemo_103, Schomber_109, Gray_108, Kabocha_112, Twin_105, Beted_108, Chidiebere_111, Amoonguss_108, Toneprano_107, MintFritos_107, Lenoshki_108, Hanem_110
• Track 49 : FlyingTortilla_107
• Track 50 : ChisanaKitsune_109
• Track 51 : GMA6_93
• Track 52 : FruityLoops_110
• Track 53 : Aloki_110, Farrylious_111, Oogie_112
• Track 54 : ScarletRaider_109
• Track 55 : Thales_91, DalanDe_94
• Track 56 : UBSmoodge_112
• Track 57 : Cantare_71

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

The start number called the most often in the published annotations is 15, it was called in 40 of the 137 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArianaSWT_89, Bartholomune_86, BillNye_66, BlueOtter_88, Braelyn_88, Chaewon_70, Circinus_67, Coogler_88, Cross_88, Cursive_86, Davielle_86, EGole_89, Eliot67_85, FreddyDRoo_86, HangryHippo_88, Larnav_88, Leo04_89, Liandry_86, Lululemon_87, Mildred21_86, Muntaha_68, Navo_85, NootNoot_83, PacManQ_87, Paradiddles_83, Peebs_87, Pepperwood_88, Persimmon_86, PinkiePie_86, PynkPanther_86, Samisti12_88, Scheme_89, Shuckle_86, Squillium_87, Sushi23_87, Teutsch_88, Tribute_86, Wakanda_67, WashU_88, Watermoore_88, WhereRU_85,

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

•

Genes that do not have the "Most Annotated" start:
• AcciDwight_94, Aloki_110, Amabiko_91, Amoonguss_108, Anedea_87, Angela_85, AngryGiraffe_90, Annadreamy_69, Argena_109, Battuta_89, Belfort_73, Beted_108, Beuffert_69, Birchlyn_88, Blueeyedbeauty_71, Bmoc_86, BoomerJR_91, Bordeaux_89, Brizzy_90, Cadmus_87, Cantare_71, CeilingFan_90, Chidiebere_111, ChisanaKitsune_109, Comrade_71, Daisy123_90, DalanDe_94, Daubenski_90, DeluluLabubu_71, Dorin_83, Elmer_93, Emma1919_73, EmoNemo_103, Enygma_91, Evy_88, Farrylious_111, Faust_73, FlyingTortilla_107, Forrest_74, Francesca_83, Francob_70, FruityLoops_110, GMA6_93, Genie2_91, Gibbi_95, Gilson_72, Gray_108, Grayson_109, Hanem_110, IchabodCrane_88, Jada_72, Jay2Jay_92, JimJam_91, Jollison_90, Kabocha_112, Karimac_90, Karp_69, Kenrey_73, KentuckyRacer_91, Lenoshki_108, LilMartin_85, LilSaint_86, Limpid_68, LukeCage_90, Marsus_86, Maupel_71, MeganTheeKilla_70, Mikronejon_112, MindFlayer_88, MintFritos_107, Moab_71, Mugiwara_90, MulchMansion_85, NiceHouse_96, Nova53_79, Oogie_112, Pakusa_104, Patelgo_71, Peregrin_106, Phredrick_71, PumpkinSpice_90, Quaran19_90, Rikishi_91, Riptide_84, SaltySpitoon_90, ScarletRaider_109, Schomber_109, SeresaTree_73, Sham_69, Sollertia_91, SparkleGoddess_71, Spelly_91, Spilled_92, Stanimal_91, StarPlatinum_91, Starbow_89, Stigma_70, Targaryen_88, Thales_91, TomSawyer_89, Tomas_93, Toneprano_107, Trina_108, Tuesday_94, TunaTartare_72, Twin_105, UBSmoodge_112, Warpy_91, Weasels2_108, Westy_72, Wipeout_88, Wofford_90, Yaboi_91,

Summary by start number:

Start 5:
• Found in 26 of 154 (16.9%) of genes in pham
• Manual Annotations of this start: 13 of 137
• Called 88.5% of time when present
• Phage (with cluster) where this start called: Amoonguss_108 (DQ), Argena_109 (DQ), Beted_108 (DQ), Cantare_71 (singleton), Chidiebere_111 (DQ), ChisanaKitsune_109 (DQ), DalanDe_94 (DQ), EmoNemo_103 (DQ), FlyingTortilla_107 (DQ), FruityLoops_110 (DQ), Gray_108 (DQ), Hanem_110 (DQ), Kabocha_112 (DQ), Lenoshki_108 (DQ), Mikronejon_112 (DQ), MintFritos_107 (DQ), Pakusa_104 (DQ), ScarletRaider_109 (DQ), Schomber_109 (DQ), Thales_91 (DQ), Toneprano_107 (DQ), Twin_105 (DQ), UBSmoodge_112 (DQ),

Start 6:
• Found in 1 of 154 (0.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA6_93 (DQ),

Start 8:
• Found in 35 of 154 (22.7%) of genes in pham
• No Manual Annotations of this start.
• Called 2.9% of time when present
• Phage (with cluster) where this start called: AcciDwight_94 (BE2),

Start 10:
• Found in 20 of 154 (13.0%) of genes in pham

• Manual Annotations of this start: 19 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belfort_73 (BK1), Comrade_71 (BK1), DeluluLababu_71 (BK1), Emma1919_73 (BK1), Forrest_74 (BK1), Francob_70 (BK1), Gilson_72 (BK1), Jada_72 (BK1), Karp_69 (BK1), Kenrey_73 (BK1), Maupel_71 (BK1), MeganTheeKilla_70 (BK1), Moab_71 (BK1), Patelgo_71 (BK1), Phredrick_71 (BK1), Sham_69 (BK1), SparkleGoddess_71 (BK1), Stigma_70 (BK1), TunaTartare_72 (BK1), Westy_72 (BK1),

Start 11:
• Found in 9 of 154 (5.8%) of genes in pham
• Manual Annotations of this start: 5 of 137
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Annadreamy_69 (BK1), Beuffert_69 (BK1), Blueeyedbeauty_71 (BK1), Faust_73 (BK1), Limpid_68 (BK1), SeresaTree_73 (BK1),

Start 12:
• Found in 44 of 154 (28.6%) of genes in pham
• Manual Annotations of this start: 39 of 137
• Called 93.2% of time when present
• Phage (with cluster) where this start called: Amabiko_91 (BE2), Angela_85 (BE1), AngryGiraffe_90 (BE2), Battuta_89 (BE2), Birchlyn_88 (BE2), BoomerJR_91 (BE2), Bordeaux_89 (BE2), Brizzy_90 (BE2), CeilingFan_90 (BE2), Daisy123_90 (BE2), Elmer_93 (BE2), Enygma_91 (BE2), Genie2_91 (BE2), Gibbi_95 (BE2), IchabodCrane_88 (BE2), JimJam_91 (BE2), Jollison_90 (BE2), Karimac_90 (BE2), KentuckyRacer_91 (BE2), LilMartin_85 (BE1), LukeCage_90 (BE2), Marsus_86 (BE1), MindFlayer_88 (BE2), Mugiwara_90 (BE2), MulchMansion_85 (BE1), PumpkinSpice_90 (BE2), Quaran19_90 (BE2), Rikishi_91 (BE2), SaltySpitoon_90 (BE2), Sollertia_91 (BE2), Spelly_91 (BE2), Spilled_92 (BE2), Stanimal_91 (BE2), StarPlatinum_91 (BE2), Starbow_89 (BE2), TomSawyer_89 (BE2), Tomas_93 (BE2), Tuesday_94 (BE2), Wipeout_88 (BE2), Wofford_90 (BE2), Yaboi_91 (BE2),

Start 13:
• Found in 2 of 154 (1.3%) of genes in pham
• Manual Annotations of this start: 2 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cadmus_87 (BE1), Daubenski_90 (BE1),

Start 14:
• Found in 6 of 154 (3.9%) of genes in pham
• Manual Annotations of this start: 6 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Evy_88 (BE1), Grayson_109 (CB), Jay2Jay_92 (BE1), Peregrin_106 (CB), Targaryen_88 (BE1), Warpy_91 (BE1),

Start 15:
• Found in 41 of 154 (26.6%) of genes in pham
• Manual Annotations of this start: 40 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArianaSWT_89 (BE1), Bartholomune_86 (BE1), BillNye_66 (BK2), BlueOtter_88 (BE1), Braelyn_88 (BE1), Chaewon_70 (BK2),

Circinus_67 (BK2), Coogler_88 (BE1), Cross_88 (BE1), Cursive_86 (BE1), Davielle_86 (BE1), EGole_89 (BE1), Eliot67_85 (BE1), FreddyDRoo_86 (BE1), HangryHippo_88 (BE1), Larnav_88 (BE1), Leo04_89 (BE1), Liandry_86 (BE1), Lululemon_87 (BE1), Mildred21_86 (BE1), Muntaha_68 (BK2), Navo_85 (BE1), NootNoot_83 (BE1), PacManQ_87 (BE1), Paradiddles_83 (BE1), Peebs_87 (BE1), Pepperwood_88 (BE1), Persimmon_86 (BE1), PinkiePie_86 (BE1), PynkPanther_86 (BE1), Samisti12_88 (BE1), Scheme_89 (BE1), Shuckle_86 (BE1), Squillium_87 (BE1), Sushi23_87 (BE1), Teutsch_88 (BE1), Tribute_86 (BE1), Wakanda_67 (BK2), WashU_88 (BE1), Watermoore_88 (BE1), WhereRU_85 (BE1),

Start 16:
• Found in 4 of 154 (2.6%) of genes in pham
• Manual Annotations of this start: 4 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anedea_87 (BE1), Bmoc_86 (BE1), LilSaint_86 (BE1), Riptide_84 (BE1),

Start 17:
• Found in 1 of 154 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_96 (CE),

Start 18:
• Found in 3 of 154 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 137
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Weasels2_108 (CB),

Start 19:
• Found in 2 of 154 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 137
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Trina_108 (CE),

Start 20:
• Found in 3 of 154 (1.9%) of genes in pham
• Manual Annotations of this start: 2 of 137
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Dorin_83 (CG), Francesca_83 (CG),

Start 25:
• Found in 19 of 154 (12.3%) of genes in pham
• Manual Annotations of this start: 3 of 137
• Called 15.8% of time when present
• Phage (with cluster) where this start called: Aloki_110 (DQ), Farrylious_111 (DQ), Oogie_112 (DQ),

Start 30:
• Found in 1 of 154 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 137
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nova53_79 (CG),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, CB, CG, CE, BK1, BK2, BE2, BE1, DQ,

Info for manual annotations of cluster BE1:
•Start number 12 was manually annotated 4 times for cluster BE1.
•Start number 13 was manually annotated 2 times for cluster BE1.
•Start number 14 was manually annotated 4 times for cluster BE1.
•Start number 15 was manually annotated 35 times for cluster BE1.
•Start number 16 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 12 was manually annotated 35 times for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 10 was manually annotated 19 times for cluster BK1.
•Start number 11 was manually annotated 5 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 15 was manually annotated 5 times for cluster BK2.

Info for manual annotations of cluster CB:
•Start number 14 was manually annotated 2 times for cluster CB.
•Start number 18 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CE:
•Start number 17 was manually annotated 1 time for cluster CE.
•Start number 19 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:
•Start number 20 was manually annotated 2 times for cluster CG.
•Start number 30 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster DQ:
•Start number 5 was manually annotated 12 times for cluster DQ.
•Start number 25 was manually annotated 3 times for cluster DQ.

Gene Information:

Gene: AcciDwight_94 Start: 64659, Stop: 65441, Start Num: 8
Candidate Starts for AcciDwight_94:
(8, 64659), (Start: 12 @64668 has 39 MA's), (55, 64911), (71, 65037), (73, 65058), (85, 65157), (96, 65238), (102, 65283), (119, 65424), (120, 65430),

Gene: Aloki_110 Start: 76678, Stop: 77445, Start Num: 25
Candidate Starts for Aloki_110:
(Start: 5 @76624 has 13 MA's), (7, 76630), (Start: 25 @76678 has 3 MA's), (28, 76702), (36, 76741), (38, 76750), (59, 76930), (60, 76933), (61, 76936), (65, 76972), (70, 77023), (76, 77086), (89, 77197), (90, 77200), (93, 77233), (94, 77236), (95, 77239), (97, 77257), (103, 77290), (106, 77314), (110,

77329), (115, 77401), (117, 77410),

Gene: Amabiko_91 Start: 64713, Stop: 65486, Start Num: 12
Candidate Starts for Amabiko_91:
(8, 64704), (Start: 12 @64713 has 39 MA's), (24, 64737), (55, 64956), (71, 65082), (73, 65103), (85, 65202), (96, 65283), (102, 65328), (119, 65469), (120, 65475),

Gene: Amoonguss_108 Start: 77071, Stop: 77892, Start Num: 5
Candidate Starts for Amoonguss_108:
(Start: 5 @77071 has 13 MA's), (7, 77077), (Start: 25 @77125 has 3 MA's), (28, 77149), (36, 77188), (38, 77197), (59, 77377), (60, 77380), (61, 77383), (65, 77419), (70, 77470), (76, 77533), (89, 77644), (90, 77647), (93, 77680), (94, 77683), (95, 77686), (97, 77704), (103, 77737), (106, 77761), (110, 77776), (115, 77848), (117, 77857),

Gene: Anedea_87 Start: 64016, Stop: 64789, Start Num: 16
Candidate Starts for Anedea_87:
(Start: 16 @64016 has 4 MA's), (55, 64259), (62, 64316), (82, 64487), (85, 64505), (96, 64586), (102, 64631), (114, 64727), (120, 64778),

Gene: Angela_85 Start: 63491, Stop: 64261, Start Num: 12
Candidate Starts for Angela_85:
(Start: 12 @63491 has 39 MA's), (26, 63518), (55, 63731), (62, 63788), (85, 63977), (86, 63983), (96, 64058), (102, 64103), (114, 64199), (119, 64244), (120, 64250),

Gene: AngryGiraffe_90 Start: 64666, Stop: 65439, Start Num: 12
Candidate Starts for AngryGiraffe_90:
(8, 64657), (Start: 12 @64666 has 39 MA's), (55, 64909), (71, 65035), (85, 65155), (93, 65224), (96, 65236), (102, 65281), (119, 65422), (120, 65428),

Gene: Annadreamy_69 Start: 54670, Stop: 55452, Start Num: 11
Candidate Starts for Annadreamy_69:
(Start: 11 @54670 has 5 MA's), (37, 54763), (55, 54916), (59, 54955), (66, 55003), (67, 55018), (79, 55120), (85, 55162), (88, 55192), (96, 55243), (102, 55288), (116, 55414), (119, 55432),

Gene: Argena_109 Start: 77487, Stop: 78308, Start Num: 5
Candidate Starts for Argena_109:
(Start: 5 @77487 has 13 MA's), (7, 77493), (Start: 25 @77541 has 3 MA's), (28, 77565), (36, 77604), (38, 77613), (59, 77793), (60, 77796), (61, 77799), (65, 77835), (70, 77886), (76, 77949), (89, 78060), (90, 78063), (93, 78096), (94, 78099), (95, 78102), (97, 78120), (103, 78153), (106, 78177), (110, 78192), (115, 78264), (117, 78273),

Gene: ArianaSWT_89 Start: 65222, Stop: 65995, Start Num: 15
Candidate Starts for ArianaSWT_89:
(Start: 15 @65222 has 40 MA's), (55, 65465), (62, 65522), (68, 65579), (84, 65705), (85, 65711), (86, 65717), (96, 65792), (102, 65837), (114, 65933), (120, 65984),

Gene: Bartholomune_86 Start: 63915, Stop: 64688, Start Num: 15
Candidate Starts for Bartholomune_86:
(Start: 15 @63915 has 40 MA's), (55, 64158), (62, 64215), (68, 64272), (82, 64386), (85, 64404), (86, 64410), (96, 64485), (102, 64530), (114, 64626), (119, 64671), (120, 64677),

Gene: Battuta_89 Start: 64687, Stop: 65460, Start Num: 12
Candidate Starts for Battuta_89:

(8, 64678), (Start: 12 @64687 has 39 MA's), (55, 64930), (71, 65056), (73, 65077), (85, 65176), (96, 65257), (102, 65302), (119, 65443), (120, 65449),

Gene: Belfort_73 Start: 56826, Stop: 57608, Start Num: 10
Candidate Starts for Belfort_73:
(Start: 10 @56826 has 19 MA's), (31, 56892), (44, 57015), (48, 57033), (55, 57072), (59, 57111), (66, 57159), (79, 57276), (85, 57318), (87, 57339), (89, 57351), (96, 57399), (102, 57444), (111, 57495), (119, 57588),

Gene: Beted_108 Start: 78512, Stop: 79333, Start Num: 5
Candidate Starts for Beted_108:
(Start: 5 @78512 has 13 MA's), (7, 78518), (Start: 25 @78566 has 3 MA's), (28, 78590), (36, 78629), (38, 78638), (59, 78818), (60, 78821), (61, 78824), (65, 78860), (70, 78911), (76, 78974), (89, 79085), (90, 79088), (93, 79121), (94, 79124), (95, 79127), (97, 79145), (103, 79178), (106, 79202), (110, 79217), (115, 79289), (117, 79298),

Gene: Beuffert_69 Start: 55794, Stop: 56576, Start Num: 11
Candidate Starts for Beuffert_69:
(3, 55764), (4, 55767), (Start: 11 @55794 has 5 MA's), (31, 55860), (37, 55887), (50, 56013), (52, 56025), (55, 56040), (59, 56079), (66, 56127), (72, 56169), (79, 56244), (85, 56286), (88, 56316), (96, 56367), (102, 56412), (116, 56538), (119, 56556),

Gene: BillNye_66 Start: 58105, Stop: 58887, Start Num: 15
Candidate Starts for BillNye_66:
(Start: 15 @58105 has 40 MA's), (33, 58180), (37, 58198), (49, 58318), (55, 58351), (66, 58438), (85, 58597), (88, 58627), (96, 58678), (102, 58723), (107, 58765), (119, 58867),

Gene: Birchlyn_88 Start: 62570, Stop: 63343, Start Num: 12
Candidate Starts for Birchlyn_88:
(8, 62561), (Start: 12 @62570 has 39 MA's), (24, 62594), (55, 62813), (71, 62939), (73, 62960), (85, 63059), (96, 63140), (102, 63185), (119, 63326), (120, 63332),

Gene: BlueOtter_88 Start: 65259, Stop: 66032, Start Num: 15
Candidate Starts for BlueOtter_88:
(Start: 15 @65259 has 40 MA's), (55, 65502), (62, 65559), (68, 65616), (84, 65742), (85, 65748), (86, 65754), (96, 65829), (102, 65874), (114, 65970), (120, 66021),

Gene: Blueeyedbeauty_71 Start: 55187, Stop: 55969, Start Num: 11
Candidate Starts for Blueeyedbeauty_71:
(3, 55157), (4, 55160), (Start: 11 @55187 has 5 MA's), (31, 55253), (37, 55280), (50, 55406), (52, 55418), (55, 55433), (59, 55472), (66, 55520), (67, 55535), (72, 55562), (79, 55637), (85, 55679), (88, 55709), (96, 55760), (102, 55805), (116, 55931), (119, 55949),

Gene: Bmoc_86 Start: 63854, Stop: 64627, Start Num: 16
Candidate Starts for Bmoc_86:
(Start: 16 @63854 has 4 MA's), (55, 64097), (62, 64154), (82, 64325), (83, 64331), (85, 64343), (86, 64349), (96, 64424), (102, 64469), (114, 64565), (120, 64616),

Gene: BoomerJR_91 Start: 64555, Stop: 65328, Start Num: 12
Candidate Starts for BoomerJR_91:
(8, 64546), (Start: 12 @64555 has 39 MA's), (55, 64798), (71, 64924), (85, 65044), (93, 65113), (96, 65125), (102, 65170), (119, 65311), (120, 65317),

Gene: Bordeaux_89 Start: 64842, Stop: 65615, Start Num: 12
Candidate Starts for Bordeaux_89:
(8, 64833), (Start: 12 @64842 has 39 MA's), (55, 65085), (71, 65211), (73, 65232), (85, 65331), (96, 65412), (102, 65457), (119, 65598), (120, 65604),

Gene: Braelyn_88 Start: 64679, Stop: 65452, Start Num: 15
Candidate Starts for Braelyn_88:
(Start: 15 @64679 has 40 MA's), (55, 64922), (62, 64979), (68, 65036), (82, 65150), (85, 65168), (86, 65174), (96, 65249), (102, 65294), (114, 65390), (119, 65435), (120, 65441),

Gene: Brizzy_90 Start: 64361, Stop: 65134, Start Num: 12
Candidate Starts for Brizzy_90:
(8, 64352), (Start: 12 @64361 has 39 MA's), (55, 64604), (71, 64730), (73, 64751), (85, 64850), (96, 64931), (102, 64976), (119, 65117), (120, 65123),

Gene: Cadmus_87 Start: 64208, Stop: 64981, Start Num: 13
Candidate Starts for Cadmus_87:
(Start: 13 @64208 has 2 MA's), (32, 64274), (55, 64451), (62, 64508), (82, 64679), (85, 64697), (86, 64703), (95, 64772), (96, 64778), (102, 64823), (104, 64832), (114, 64919), (119, 64964), (120, 64970),

Gene: Cantare_71 Start: 60022, Stop: 60849, Start Num: 5
Candidate Starts for Cantare_71:
(Start: 5 @60022 has 13 MA's), (Start: 19 @60058 has 1 MA's), (29, 60106), (39, 60163), (43, 60235), (53, 60280), (56, 60316), (63, 60355), (64, 60361), (67, 60406), (74, 60463), (75, 60478), (85, 60565), (87, 60586), (97, 60658), (98, 60661), (103, 60694),

Gene: CeilingFan_90 Start: 64602, Stop: 65375, Start Num: 12
Candidate Starts for CeilingFan_90:
(8, 64593), (Start: 12 @64602 has 39 MA's), (55, 64845), (71, 64971), (73, 64992), (85, 65091), (96, 65172), (102, 65217), (119, 65358), (120, 65364),

Gene: Chaewon_70 Start: 58044, Stop: 58826, Start Num: 15
Candidate Starts for Chaewon_70:
(Start: 15 @58044 has 40 MA's), (33, 58119), (37, 58137), (49, 58257), (55, 58290), (59, 58329), (66, 58377), (85, 58536), (96, 58617), (102, 58662), (119, 58806),

Gene: Chidiebere_111 Start: 77754, Stop: 78575, Start Num: 5
Candidate Starts for Chidiebere_111:
(Start: 5 @77754 has 13 MA's), (7, 77760), (Start: 25 @77808 has 3 MA's), (28, 77832), (36, 77871), (38, 77880), (59, 78060), (60, 78063), (61, 78066), (65, 78102), (70, 78153), (76, 78216), (89, 78327), (90, 78330), (93, 78363), (94, 78366), (95, 78369), (97, 78387), (103, 78420), (106, 78444), (110, 78459), (115, 78531), (117, 78540),

Gene: ChisanaKitsune_109 Start: 76622, Stop: 77446, Start Num: 5
Candidate Starts for ChisanaKitsune_109:
(Start: 5 @76622 has 13 MA's), (7, 76628), (Start: 25 @76676 has 3 MA's), (28, 76700), (36, 76739), (38, 76748), (41, 76814), (46, 76847), (50, 76865), (59, 76931), (60, 76934), (69, 77021), (70, 77024), (76, 77087), (90, 77201), (97, 77258), (103, 77291), (106, 77315), (110, 77330), (115, 77402), (117, 77411),

Gene: Circinus_67 Start: 58092, Stop: 58874, Start Num: 15
Candidate Starts for Circinus_67:

(2, 58047), (Start: 15 @58092 has 40 MA's), (33, 58167), (37, 58185), (49, 58305), (55, 58338), (66, 58425), (85, 58584), (88, 58614), (96, 58665), (102, 58710), (107, 58752), (119, 58854),

Gene: Comrade_71 Start: 56442, Stop: 57224, Start Num: 10
Candidate Starts for Comrade_71:
(Start: 10 @56442 has 19 MA's), (31, 56508), (44, 56631), (48, 56649), (55, 56688), (59, 56727), (66, 56775), (79, 56892), (85, 56934), (87, 56955), (89, 56967), (96, 57015), (102, 57060), (111, 57111), (119, 57204),

Gene: Coogler_88 Start: 65285, Stop: 66058, Start Num: 15
Candidate Starts for Coogler_88:
(Start: 15 @65285 has 40 MA's), (55, 65528), (62, 65585), (68, 65642), (84, 65768), (85, 65774), (86, 65780), (96, 65855), (102, 65900), (114, 65996), (120, 66047),

Gene: Cross_88 Start: 65260, Stop: 66033, Start Num: 15
Candidate Starts for Cross_88:
(Start: 15 @65260 has 40 MA's), (55, 65503), (62, 65560), (68, 65617), (84, 65743), (85, 65749), (86, 65755), (96, 65830), (102, 65875), (114, 65971), (120, 66022),

Gene: Cursive_86 Start: 64785, Stop: 65558, Start Num: 15
Candidate Starts for Cursive_86:
(Start: 15 @64785 has 40 MA's), (55, 65028), (62, 65085), (68, 65142), (84, 65268), (85, 65274), (86, 65280), (96, 65355), (102, 65400), (114, 65496), (120, 65547),

Gene: Daisy123_90 Start: 64461, Stop: 65234, Start Num: 12
Candidate Starts for Daisy123_90:
(8, 64452), (Start: 12 @64461 has 39 MA's), (24, 64485), (55, 64704), (71, 64830), (73, 64851), (85, 64950), (96, 65031), (102, 65076), (119, 65217), (120, 65223),

Gene: DalanDe_94 Start: 75542, Stop: 76399, Start Num: 5
Candidate Starts for DalanDe_94:
(Start: 5 @75542 has 13 MA's), (Start: 11 @75566 has 5 MA's), (28, 75623), (36, 75662), (38, 75671), (42, 75743), (59, 75851), (61, 75857), (65, 75893), (69, 75941), (70, 75944), (75, 75998), (76, 76007), (81, 76064), (82, 76067), (89, 76118), (93, 76154), (103, 76211), (115, 76322),

Gene: Daubenski_90 Start: 64972, Stop: 65745, Start Num: 13
Candidate Starts for Daubenski_90:
(Start: 13 @64972 has 2 MA's), (32, 65038), (55, 65215), (62, 65272), (82, 65443), (85, 65461), (86, 65467), (95, 65536), (96, 65542), (102, 65587), (104, 65596), (114, 65683), (119, 65728), (120, 65734),

Gene: Davielle_86 Start: 64099, Stop: 64872, Start Num: 15
Candidate Starts for Davielle_86:
(Start: 15 @64099 has 40 MA's), (55, 64342), (62, 64399), (68, 64456), (82, 64570), (85, 64588), (86, 64594), (96, 64669), (102, 64714), (114, 64810), (119, 64855), (120, 64861),

Gene: DeluluLabubu_71 Start: 54465, Stop: 55247, Start Num: 10
Candidate Starts for DeluluLabubu_71:
(Start: 10 @54465 has 19 MA's), (37, 54558), (48, 54672), (52, 54696), (55, 54711), (59, 54750), (66, 54798), (67, 54813), (79, 54915), (85, 54957), (87, 54978), (89, 54990), (96, 55038), (102, 55083), (111, 55134), (119, 55227),

Gene: Dorin_83 Start: 66468, Stop: 67226, Start Num: 20

Candidate Starts for Dorin_83:
(Start: 20 @66468 has 2 MA's), (27, 66486), (55, 66690), (57, 66717), (81, 66921), (84, 66936), (85, 66942), (96, 67023), (97, 67035),

Gene: EGole_89 Start: 66205, Stop: 66978, Start Num: 15
Candidate Starts for EGole_89:
(Start: 15 @66205 has 40 MA's), (55, 66448), (62, 66505), (68, 66562), (84, 66688), (85, 66694), (86, 66700), (96, 66775), (102, 66820), (114, 66916), (120, 66967),

Gene: Eliot67_85 Start: 63957, Stop: 64730, Start Num: 15
Candidate Starts for Eliot67_85:
(Start: 15 @63957 has 40 MA's), (55, 64200), (62, 64257), (68, 64314), (82, 64428), (85, 64446), (86, 64452), (96, 64527), (102, 64572), (114, 64668), (119, 64713), (120, 64719),

Gene: Elmer_93 Start: 65793, Stop: 66566, Start Num: 12
Candidate Starts for Elmer_93:
(9, 65787), (Start: 12 @65793 has 39 MA's), (49, 66003), (55, 66036), (71, 66162), (85, 66282), (95, 66357), (96, 66363), (102, 66408), (119, 66549), (120, 66555),

Gene: Emma1919_73 Start: 55139, Stop: 55921, Start Num: 10
Candidate Starts for Emma1919_73:
(Start: 10 @55139 has 19 MA's), (37, 55232), (48, 55346), (52, 55370), (55, 55385), (59, 55424), (66, 55472), (67, 55487), (79, 55589), (85, 55631), (87, 55652), (89, 55664), (96, 55712), (102, 55757), (111, 55808), (119, 55901),

Gene: EmoNemo_103 Start: 76636, Stop: 77457, Start Num: 5
Candidate Starts for EmoNemo_103:
(Start: 5 @76636 has 13 MA's), (7, 76642), (Start: 25 @76690 has 3 MA's), (28, 76714), (36, 76753), (38, 76762), (59, 76942), (60, 76945), (61, 76948), (65, 76984), (70, 77035), (76, 77098), (89, 77209), (90, 77212), (93, 77245), (94, 77248), (95, 77251), (97, 77269), (103, 77302), (106, 77326), (110, 77341), (115, 77413), (117, 77422),

Gene: Enygma_91 Start: 66498, Stop: 67271, Start Num: 12
Candidate Starts for Enygma_91:
(8, 66489), (Start: 12 @66498 has 39 MA's), (55, 66741), (62, 66798), (71, 66867), (85, 66987), (86, 66993), (93, 67056), (96, 67068), (102, 67113), (120, 67260),

Gene: Evy_88 Start: 65159, Stop: 65932, Start Num: 14
Candidate Starts for Evy_88:
(Start: 14 @65159 has 6 MA's), (21, 65174), (33, 65231), (55, 65402), (62, 65459), (85, 65648), (96, 65729), (102, 65774), (114, 65870), (119, 65915), (120, 65921),

Gene: Farrylious_111 Start: 77296, Stop: 78063, Start Num: 25
Candidate Starts for Farrylious_111:
(Start: 5 @77242 has 13 MA's), (7, 77248), (Start: 25 @77296 has 3 MA's), (28, 77320), (36, 77359), (38, 77368), (59, 77548), (60, 77551), (61, 77554), (65, 77590), (70, 77641), (76, 77704), (89, 77815), (90, 77818), (93, 77851), (94, 77854), (95, 77857), (97, 77875), (103, 77908), (106, 77932), (110, 77947), (115, 78019), (117, 78028),

Gene: Faust_73 Start: 56777, Stop: 57562, Start Num: 11
Candidate Starts for Faust_73:
(Start: 11 @56777 has 5 MA's), (31, 56846), (37, 56873), (55, 57026), (66, 57113), (79, 57230), (81, 57251), (85, 57272), (96, 57353), (100, 57389), (102, 57398), (111, 57449), (116, 57524), (119,

57542),

Gene: FlyingTortilla_107 Start: 80522, Stop: 81343, Start Num: 5
Candidate Starts for FlyingTortilla_107:
(Start: 5 @80522 has 13 MA's), (7, 80528), (28, 80600), (36, 80639), (38, 80648), (44, 80735), (59, 80828), (60, 80831), (61, 80834), (65, 80870), (70, 80921), (76, 80984), (90, 81098), (93, 81131), (94, 81134), (95, 81137), (97, 81155), (103, 81188), (112, 81254), (115, 81299),

Gene: Forrest_74 Start: 56432, Stop: 57214, Start Num: 10
Candidate Starts for Forrest_74:
(Start: 10 @56432 has 19 MA's), (37, 56525), (48, 56639), (52, 56663), (55, 56678), (59, 56717), (66, 56765), (67, 56780), (79, 56882), (85, 56924), (87, 56945), (89, 56957), (96, 57005), (102, 57050), (111, 57101), (119, 57194),

Gene: Francesca_83 Start: 67206, Stop: 67964, Start Num: 20
Candidate Starts for Francesca_83:
(Start: 20 @67206 has 2 MA's), (27, 67224), (55, 67428), (57, 67455), (81, 67659), (84, 67674), (85, 67680), (96, 67761), (97, 67773),

Gene: Francob_70 Start: 55210, Stop: 55992, Start Num: 10
Candidate Starts for Francob_70:
(Start: 10 @55210 has 19 MA's), (48, 55417), (51, 55432), (55, 55456), (59, 55495), (66, 55543), (67, 55558), (79, 55660), (85, 55702), (87, 55723), (88, 55732), (96, 55783), (102, 55828), (111, 55879), (119, 55972),

Gene: FreddyDRoo_86 Start: 63957, Stop: 64730, Start Num: 15
Candidate Starts for FreddyDRoo_86:
(Start: 15 @63957 has 40 MA's), (55, 64200), (62, 64257), (68, 64314), (82, 64428), (85, 64446), (86, 64452), (96, 64527), (102, 64572), (114, 64668), (119, 64713), (120, 64719),

Gene: FruityLoops_110 Start: 80028, Stop: 80849, Start Num: 5
Candidate Starts for FruityLoops_110:
(Start: 5 @80028 has 13 MA's), (7, 80034), (36, 80145), (38, 80154), (44, 80241), (59, 80334), (60, 80337), (61, 80340), (65, 80376), (70, 80427), (90, 80604), (93, 80637), (94, 80640), (95, 80643), (97, 80661), (110, 80733), (112, 80760), (115, 80805),

Gene: GMA6_93 Start: 68445, Stop: 69272, Start Num: 6
Candidate Starts for GMA6_93:
(1, 68403), (6, 68445), (Start: 11 @68466 has 5 MA's), (28, 68523), (35, 68559), (41, 68637), (47, 68673), (59, 68751), (60, 68754), (65, 68793), (67, 68826), (70, 68844), (71, 68850), (76, 68907), (78, 68931), (80, 68949), (81, 68961), (97, 69075), (98, 69078), (101, 69099), (109, 69144),

Gene: Genie2_91 Start: 64669, Stop: 65442, Start Num: 12
Candidate Starts for Genie2_91:
(8, 64660), (Start: 12 @64669 has 39 MA's), (55, 64912), (71, 65038), (85, 65158), (93, 65227), (96, 65239), (102, 65284), (119, 65425), (120, 65431),

Gene: Gibbi_95 Start: 64825, Stop: 65598, Start Num: 12
Candidate Starts for Gibbi_95:
(8, 64816), (Start: 12 @64825 has 39 MA's), (55, 65068), (71, 65194), (73, 65215), (85, 65314), (96, 65395), (102, 65440), (119, 65581), (120, 65587),

Gene: Gilson_72 Start: 55101, Stop: 55883, Start Num: 10

Candidate Starts for Gilson_72:
(Start: 10 @55101 has 19 MA's), (37, 55194), (48, 55308), (52, 55332), (55, 55347), (59, 55386), (66, 55434), (67, 55449), (79, 55551), (85, 55593), (87, 55614), (89, 55626), (96, 55674), (102, 55719), (111, 55770), (119, 55863),

Gene: Gray_108 Start: 76897, Stop: 77718, Start Num: 5
Candidate Starts for Gray_108:
(Start: 5 @76897 has 13 MA's), (7, 76903), (Start: 25 @76951 has 3 MA's), (28, 76975), (36, 77014), (38, 77023), (59, 77203), (60, 77206), (61, 77209), (65, 77245), (70, 77296), (76, 77359), (89, 77470), (90, 77473), (93, 77506), (94, 77509), (95, 77512), (97, 77530), (103, 77563), (106, 77587), (110, 77602), (115, 77674), (117, 77683),

Gene: Grayson_109 Start: 68149, Stop: 68922, Start Num: 14
Candidate Starts for Grayson_109:
(Start: 14 @68149 has 6 MA's), (Start: 18 @68155 has 1 MA's), (22, 68167), (23, 68173), (40, 68293), (44, 68332), (77, 68578), (85, 68629), (96, 68710), (102, 68755),

Gene: Hanem_110 Start: 76624, Stop: 77445, Start Num: 5
Candidate Starts for Hanem_110:
(Start: 5 @76624 has 13 MA's), (7, 76630), (Start: 25 @76678 has 3 MA's), (28, 76702), (36, 76741), (38, 76750), (59, 76930), (60, 76933), (61, 76936), (65, 76972), (70, 77023), (76, 77086), (89, 77197), (90, 77200), (93, 77233), (94, 77236), (95, 77239), (97, 77257), (103, 77290), (106, 77314), (110, 77329), (115, 77401), (117, 77410),

Gene: HangryHippo_88 Start: 65259, Stop: 66032, Start Num: 15
Candidate Starts for HangryHippo_88:
(Start: 15 @65259 has 40 MA's), (55, 65502), (62, 65559), (68, 65616), (84, 65742), (85, 65748), (86, 65754), (96, 65829), (102, 65874), (114, 65970), (120, 66021),

Gene: IchabodCrane_88 Start: 64414, Stop: 65187, Start Num: 12
Candidate Starts for IchabodCrane_88:
(8, 64405), (Start: 12 @64414 has 39 MA's), (24, 64438), (55, 64657), (71, 64783), (73, 64804), (85, 64903), (96, 64984), (102, 65029), (119, 65170), (120, 65176),

Gene: Jada_72 Start: 55614, Stop: 56396, Start Num: 10
Candidate Starts for Jada_72:
(Start: 10 @55614 has 19 MA's), (37, 55707), (48, 55821), (52, 55845), (55, 55860), (59, 55899), (66, 55947), (67, 55962), (79, 56064), (85, 56106), (87, 56127), (89, 56139), (96, 56187), (102, 56232), (111, 56283), (119, 56376),

Gene: Jay2Jay_92 Start: 66011, Stop: 66784, Start Num: 14
Candidate Starts for Jay2Jay_92:
(Start: 14 @66011 has 6 MA's), (21, 66026), (31, 66074), (33, 66083), (55, 66254), (62, 66311), (85, 66500), (96, 66581), (102, 66626), (114, 66722), (119, 66767), (120, 66773),

Gene: JimJam_91 Start: 64788, Stop: 65561, Start Num: 12
Candidate Starts for JimJam_91:
(8, 64779), (Start: 12 @64788 has 39 MA's), (55, 65031), (71, 65157), (73, 65178), (85, 65277), (96, 65358), (102, 65403), (119, 65544), (120, 65550),

Gene: Jollison_90 Start: 64670, Stop: 65443, Start Num: 12
Candidate Starts for Jollison_90:

(8, 64661), (Start: 12 @64670 has 39 MA's), (55, 64913), (71, 65039), (73, 65060), (85, 65159), (96, 65240), (102, 65285), (119, 65426), (120, 65432),

Gene: Kabocha_112 Start: 78567, Stop: 79388, Start Num: 5
Candidate Starts for Kabocha_112:
(Start: 5 @78567 has 13 MA's), (7, 78573), (Start: 25 @78621 has 3 MA's), (28, 78645), (36, 78684), (38, 78693), (59, 78873), (60, 78876), (61, 78879), (65, 78915), (70, 78966), (76, 79029), (89, 79140), (90, 79143), (93, 79176), (94, 79179), (95, 79182), (97, 79200), (103, 79233), (106, 79257), (110, 79272), (115, 79344), (117, 79353),

Gene: Karimac_90 Start: 64819, Stop: 65592, Start Num: 12
Candidate Starts for Karimac_90:
(8, 64810), (Start: 12 @64819 has 39 MA's), (55, 65062), (71, 65188), (73, 65209), (85, 65308), (96, 65389), (102, 65434), (119, 65575), (120, 65581),

Gene: Karp_69 Start: 56035, Stop: 56817, Start Num: 10
Candidate Starts for Karp_69:
(Start: 10 @56035 has 19 MA's), (31, 56101), (37, 56128), (44, 56224), (48, 56242), (55, 56281), (59, 56320), (66, 56368), (79, 56485), (85, 56527), (87, 56548), (89, 56560), (96, 56608), (102, 56653), (111, 56704), (119, 56797),

Gene: Kenrey_73 Start: 55283, Stop: 56065, Start Num: 10
Candidate Starts for Kenrey_73:
(Start: 10 @55283 has 19 MA's), (37, 55376), (48, 55490), (55, 55529), (59, 55568), (66, 55616), (79, 55733), (85, 55775), (87, 55796), (89, 55808), (96, 55856), (102, 55901), (111, 55952), (116, 56027), (119, 56045),

Gene: KentuckyRacer_91 Start: 64603, Stop: 65376, Start Num: 12
Candidate Starts for KentuckyRacer_91:
(8, 64594), (Start: 12 @64603 has 39 MA's), (55, 64846), (71, 64972), (73, 64993), (85, 65092), (96, 65173), (102, 65218), (119, 65359), (120, 65365),

Gene: Larnav_88 Start: 65244, Stop: 66017, Start Num: 15
Candidate Starts for Larnav_88:
(Start: 15 @65244 has 40 MA's), (55, 65487), (62, 65544), (68, 65601), (84, 65727), (85, 65733), (86, 65739), (96, 65814), (102, 65859), (114, 65955), (120, 66006),

Gene: Lenoshki_108 Start: 78512, Stop: 79333, Start Num: 5
Candidate Starts for Lenoshki_108:
(Start: 5 @78512 has 13 MA's), (7, 78518), (Start: 25 @78566 has 3 MA's), (28, 78590), (36, 78629), (38, 78638), (59, 78818), (60, 78821), (61, 78824), (65, 78860), (70, 78911), (76, 78974), (89, 79085), (90, 79088), (93, 79121), (94, 79124), (95, 79127), (97, 79145), (103, 79178), (106, 79202), (110, 79217), (115, 79289), (117, 79298),

Gene: Leo04_89 Start: 65759, Stop: 66532, Start Num: 15
Candidate Starts for Leo04_89:
(Start: 15 @65759 has 40 MA's), (55, 66002), (62, 66059), (68, 66116), (84, 66242), (85, 66248), (86, 66254), (96, 66329), (102, 66374), (114, 66470), (120, 66521),

Gene: Liandry_86 Start: 64664, Stop: 65437, Start Num: 15
Candidate Starts for Liandry_86:
(Start: 15 @64664 has 40 MA's), (55, 64907), (62, 64964), (68, 65021), (82, 65135), (85, 65153), (86, 65159), (96, 65234), (102, 65279), (114, 65375), (119, 65420), (120, 65426),

Gene: LilMartin_85 Start: 63439, Stop: 64209, Start Num: 12
Candidate Starts for LilMartin_85:
(Start: 12 @63439 has 39 MA's), (26, 63466), (55, 63679), (62, 63736), (85, 63925), (86, 63931), (96, 64006), (102, 64051), (114, 64147), (119, 64192), (120, 64198),

Gene: LilSaint_86 Start: 63689, Stop: 64462, Start Num: 16
Candidate Starts for LilSaint_86:
(Start: 16 @63689 has 4 MA's), (55, 63932), (62, 63989), (82, 64160), (85, 64178), (96, 64259), (102, 64304), (114, 64400), (120, 64451),

Gene: Limpid_68 Start: 54669, Stop: 55451, Start Num: 11
Candidate Starts for Limpid_68:
(Start: 11 @54669 has 5 MA's), (37, 54762), (55, 54915), (59, 54954), (66, 55002), (67, 55017), (79, 55119), (85, 55161), (88, 55191), (96, 55242), (102, 55287), (116, 55413), (119, 55431),

Gene: LukeCage_90 Start: 64576, Stop: 65349, Start Num: 12
Candidate Starts for LukeCage_90:
(8, 64567), (Start: 12 @64576 has 39 MA's), (24, 64600), (55, 64819), (71, 64945), (85, 65065), (93, 65134), (96, 65146), (102, 65191), (119, 65332), (120, 65338),

Gene: Lululemon_87 Start: 64640, Stop: 65413, Start Num: 15
Candidate Starts for Lululemon_87:
(Start: 15 @64640 has 40 MA's), (55, 64883), (62, 64940), (68, 64997), (84, 65123), (85, 65129), (86, 65135), (96, 65210), (102, 65255), (114, 65351), (120, 65402),

Gene: Marsus_86 Start: 63688, Stop: 64458, Start Num: 12
Candidate Starts for Marsus_86:
(Start: 12 @63688 has 39 MA's), (26, 63715), (55, 63928), (62, 63985), (85, 64174), (96, 64255), (102, 64300), (114, 64396), (119, 64441), (120, 64447),

Gene: Maupel_71 Start: 55101, Stop: 55883, Start Num: 10
Candidate Starts for Maupel_71:
(Start: 10 @55101 has 19 MA's), (37, 55194), (48, 55308), (52, 55332), (55, 55347), (59, 55386), (66, 55434), (67, 55449), (79, 55551), (85, 55593), (87, 55614), (89, 55626), (96, 55674), (102, 55719), (111, 55770), (119, 55863),

Gene: MeganTheeKilla_70 Start: 54462, Stop: 55244, Start Num: 10
Candidate Starts for MeganTheeKilla_70:
(Start: 10 @54462 has 19 MA's), (37, 54555), (48, 54669), (52, 54693), (55, 54708), (59, 54747), (66, 54795), (79, 54912), (85, 54954), (87, 54975), (89, 54987), (96, 55035), (102, 55080), (111, 55131), (119, 55224),

Gene: Mikronejon_112 Start: 77104, Stop: 77925, Start Num: 5
Candidate Starts for Mikronejon_112:
(Start: 5 @77104 has 13 MA's), (7, 77110), (Start: 25 @77158 has 3 MA's), (28, 77182), (36, 77221), (38, 77230), (59, 77410), (60, 77413), (61, 77416), (65, 77452), (70, 77503), (76, 77566), (89, 77677), (90, 77680), (93, 77713), (94, 77716), (95, 77719), (97, 77737), (103, 77770), (106, 77794), (110, 77809), (115, 77881), (117, 77890),

Gene: Mildred21_86 Start: 63659, Stop: 64432, Start Num: 15
Candidate Starts for Mildred21_86:

(Start: 15 @63659 has 40 MA's), (55, 63902), (62, 63959), (83, 64136), (85, 64148), (86, 64154), (96, 64229), (102, 64274), (114, 64370), (119, 64415), (120, 64421),

Gene: MindFlayer_88 Start: 64321, Stop: 65094, Start Num: 12
Candidate Starts for MindFlayer_88:
(8, 64312), (Start: 12 @64321 has 39 MA's), (24, 64345), (55, 64564), (71, 64690), (73, 64711), (85, 64810), (96, 64891), (102, 64936), (119, 65077), (120, 65083),

Gene: MintFritos_107 Start: 77392, Stop: 78213, Start Num: 5
Candidate Starts for MintFritos_107:
(Start: 5 @77392 has 13 MA's), (7, 77398), (Start: 25 @77446 has 3 MA's), (28, 77470), (36, 77509), (38, 77518), (59, 77698), (60, 77701), (61, 77704), (65, 77740), (70, 77791), (76, 77854), (89, 77965), (90, 77968), (93, 78001), (94, 78004), (95, 78007), (97, 78025), (103, 78058), (106, 78082), (110, 78097), (115, 78169), (117, 78178),

Gene: Moab_71 Start: 56333, Stop: 57115, Start Num: 10
Candidate Starts for Moab_71:
(Start: 10 @56333 has 19 MA's), (37, 56426), (44, 56522), (48, 56540), (55, 56579), (59, 56618), (66, 56666), (79, 56783), (85, 56825), (87, 56846), (88, 56855), (96, 56906), (102, 56951), (119, 57095),

Gene: Mugiwara_90 Start: 65075, Stop: 65848, Start Num: 12
Candidate Starts for Mugiwara_90:
(8, 65066), (Start: 12 @65075 has 39 MA's), (55, 65318), (62, 65375), (71, 65444), (85, 65564), (96, 65645), (102, 65690), (119, 65831), (120, 65837),

Gene: MulchMansion_85 Start: 63439, Stop: 64209, Start Num: 12
Candidate Starts for MulchMansion_85:
(Start: 12 @63439 has 39 MA's), (26, 63466), (55, 63679), (62, 63736), (85, 63925), (86, 63931), (96, 64006), (102, 64051), (114, 64147), (119, 64192), (120, 64198),

Gene: Muntaha_68 Start: 56441, Stop: 57223, Start Num: 15
Candidate Starts for Muntaha_68:
(Start: 15 @56441 has 40 MA's), (37, 56534), (49, 56654), (55, 56687), (59, 56726), (66, 56774), (67, 56789), (85, 56933), (96, 57014), (102, 57059), (107, 57101), (119, 57203),

Gene: Navo_85 Start: 64583, Stop: 65356, Start Num: 15
Candidate Starts for Navo_85:
(Start: 15 @64583 has 40 MA's), (55, 64826), (62, 64883), (68, 64940), (82, 65054), (85, 65072), (86, 65078), (96, 65153), (102, 65198), (114, 65294), (119, 65339), (120, 65345),

Gene: NiceHouse_96 Start: 71004, Stop: 71774, Start Num: 17
Candidate Starts for NiceHouse_96:
(Start: 17 @71004 has 1 MA's), (34, 71070), (40, 71139), (55, 71235), (58, 71265), (62, 71292), (85, 71481), (89, 71514), (92, 71547), (96, 71562), (102, 71607), (113, 71691), (118, 71748),

Gene: NootNoot_83 Start: 63578, Stop: 64351, Start Num: 15
Candidate Starts for NootNoot_83:
(Start: 15 @63578 has 40 MA's), (55, 63821), (62, 63878), (68, 63935), (82, 64049), (85, 64067), (86, 64073), (96, 64148), (102, 64193), (114, 64289), (119, 64334), (120, 64340),

Gene: Nova53_79 Start: 66078, Stop: 66794, Start Num: 30
Candidate Starts for Nova53_79:

(Start: 20 @66042 has 2 MA's), (Start: 30 @66078 has 1 MA's), (40, 66168), (55, 66264), (70, 66387), (74, 66414), (85, 66510), (91, 66564), (96, 66591), (97, 66603), (114, 66735), (119, 66777),

Gene: Oogie_112 Start: 78616, Stop: 79383, Start Num: 25
Candidate Starts for Oogie_112:
(Start: 5 @78562 has 13 MA's), (7, 78568), (Start: 25 @78616 has 3 MA's), (28, 78640), (36, 78679), (38, 78688), (59, 78868), (60, 78871), (61, 78874), (65, 78910), (70, 78961), (76, 79024), (89, 79135), (90, 79138), (93, 79171), (94, 79174), (95, 79177), (97, 79195), (103, 79228), (106, 79252), (110, 79267), (115, 79339), (117, 79348),

Gene: PacManQ_87 Start: 64640, Stop: 65413, Start Num: 15
Candidate Starts for PacManQ_87:
(Start: 15 @64640 has 40 MA's), (55, 64883), (62, 64940), (68, 64997), (84, 65123), (85, 65129), (86, 65135), (96, 65210), (102, 65255), (114, 65351), (120, 65402),

Gene: Pakusa_104 Start: 76362, Stop: 77183, Start Num: 5
Candidate Starts for Pakusa_104:
(Start: 5 @76362 has 13 MA's), (7, 76368), (Start: 25 @76416 has 3 MA's), (28, 76440), (36, 76479), (38, 76488), (59, 76668), (60, 76671), (61, 76674), (65, 76710), (70, 76761), (76, 76824), (89, 76935), (90, 76938), (93, 76971), (94, 76974), (95, 76977), (97, 76995), (103, 77028), (106, 77052), (110, 77067), (115, 77139), (117, 77148),

Gene: Paradiddles_83 Start: 63842, Stop: 64615, Start Num: 15
Candidate Starts for Paradiddles_83:
(Start: 15 @63842 has 40 MA's), (55, 64085), (62, 64142), (68, 64199), (82, 64313), (85, 64331), (86, 64337), (96, 64412), (102, 64457), (114, 64553), (119, 64598), (120, 64604),

Gene: Patelgo_71 Start: 56496, Stop: 57278, Start Num: 10
Candidate Starts for Patelgo_71:
(Start: 10 @56496 has 19 MA's), (37, 56589), (44, 56685), (48, 56703), (55, 56742), (59, 56781), (66, 56829), (79, 56946), (85, 56988), (87, 57009), (88, 57018), (96, 57069), (102, 57114), (119, 57258),

Gene: Peebs_87 Start: 64994, Stop: 65767, Start Num: 15
Candidate Starts for Peebs_87:
(Start: 15 @64994 has 40 MA's), (55, 65237), (62, 65294), (68, 65351), (84, 65477), (85, 65483), (86, 65489), (96, 65564), (102, 65609), (114, 65705), (120, 65756),

Gene: Pepperwood_88 Start: 65127, Stop: 65900, Start Num: 15
Candidate Starts for Pepperwood_88:
(Start: 15 @65127 has 40 MA's), (55, 65370), (62, 65427), (68, 65484), (84, 65610), (85, 65616), (86, 65622), (96, 65697), (102, 65742), (114, 65838), (120, 65889),

Gene: Peregrin_106 Start: 66574, Stop: 67347, Start Num: 14
Candidate Starts for Peregrin_106:
(Start: 14 @66574 has 6 MA's), (Start: 18 @66580 has 1 MA's), (22, 66592), (23, 66598), (40, 66718), (44, 66757), (45, 66760), (77, 67003), (85, 67054), (96, 67135), (102, 67180),

Gene: Persimmon_86 Start: 63511, Stop: 64284, Start Num: 15
Candidate Starts for Persimmon_86:
(Start: 15 @63511 has 40 MA's), (55, 63754), (62, 63811), (68, 63868), (82, 63982), (85, 64000), (86, 64006), (96, 64081), (102, 64126), (114, 64222), (119, 64267), (120, 64273),

Gene: Phredrick_71 Start: 54363, Stop: 55145, Start Num: 10

Candidate Starts for Phredrick_71:
(Start: 10 @54363 has 19 MA's), (37, 54456), (48, 54570), (55, 54609), (59, 54648), (66, 54696), (79, 54813), (85, 54855), (87, 54876), (89, 54888), (96, 54936), (102, 54981), (111, 55032), (116, 55107), (119, 55125),

Gene: PinkiePie_86 Start: 64664, Stop: 65437, Start Num: 15
Candidate Starts for PinkiePie_86:
(Start: 15 @64664 has 40 MA's), (55, 64907), (62, 64964), (68, 65021), (82, 65135), (85, 65153), (86, 65159), (96, 65234), (102, 65279), (114, 65375), (119, 65420), (120, 65426),

Gene: PumpkinSpice_90 Start: 64713, Stop: 65486, Start Num: 12
Candidate Starts for PumpkinSpice_90:
(8, 64704), (Start: 12 @64713 has 39 MA's), (55, 64956), (71, 65082), (73, 65103), (85, 65202), (96, 65283), (102, 65328), (119, 65469), (120, 65475),

Gene: PynkPanther_86 Start: 64644, Stop: 65417, Start Num: 15
Candidate Starts for PynkPanther_86:
(Start: 15 @64644 has 40 MA's), (55, 64887), (62, 64944), (68, 65001), (82, 65115), (85, 65133), (86, 65139), (96, 65214), (102, 65259), (114, 65355), (119, 65400), (120, 65406),

Gene: Quaran19_90 Start: 64704, Stop: 65477, Start Num: 12
Candidate Starts for Quaran19_90:
(8, 64695), (Start: 12 @64704 has 39 MA's), (55, 64947), (71, 65073), (73, 65094), (85, 65193), (96, 65274), (102, 65319), (119, 65460), (120, 65466),

Gene: Rikishi_91 Start: 64619, Stop: 65392, Start Num: 12
Candidate Starts for Rikishi_91:
(8, 64610), (Start: 12 @64619 has 39 MA's), (55, 64862), (71, 64988), (73, 65009), (85, 65108), (96, 65189), (102, 65234), (119, 65375), (120, 65381),

Gene: Riptide_84 Start: 63233, Stop: 64006, Start Num: 16
Candidate Starts for Riptide_84:
(Start: 16 @63233 has 4 MA's), (55, 63476), (62, 63533), (82, 63704), (85, 63722), (96, 63803), (102, 63848), (114, 63944), (120, 63995),

Gene: SaltySpitoon_90 Start: 64713, Stop: 65486, Start Num: 12
Candidate Starts for SaltySpitoon_90:
(8, 64704), (Start: 12 @64713 has 39 MA's), (55, 64956), (71, 65082), (73, 65103), (85, 65202), (96, 65283), (102, 65328), (119, 65469), (120, 65475),

Gene: Samisti12_88 Start: 66436, Stop: 67209, Start Num: 15
Candidate Starts for Samisti12_88:
(Start: 15 @66436 has 40 MA's), (55, 66679), (62, 66736), (68, 66793), (84, 66919), (85, 66925), (86, 66931), (96, 67006), (102, 67051), (114, 67147), (120, 67198),

Gene: ScarletRaider_109 Start: 79864, Stop: 80685, Start Num: 5
Candidate Starts for ScarletRaider_109:
(Start: 5 @79864 has 13 MA's), (7, 79870), (36, 79981), (38, 79990), (44, 80077), (59, 80170), (60, 80173), (61, 80176), (65, 80212), (70, 80263), (75, 80317), (90, 80440), (93, 80473), (94, 80476), (95, 80479), (97, 80497), (103, 80530), (112, 80596), (115, 80641),

Gene: Scheme_89 Start: 65841, Stop: 66614, Start Num: 15
Candidate Starts for Scheme_89:

(Start: 15 @65841 has 40 MA's), (55, 66084), (62, 66141), (68, 66198), (84, 66324), (85, 66330), (86, 66336), (96, 66411), (102, 66456), (114, 66552), (120, 66603),

Gene: Schomber_109 Start: 76955, Stop: 77776, Start Num: 5
Candidate Starts for Schomber_109:
(Start: 5 @76955 has 13 MA's), (7, 76961), (Start: 25 @77009 has 3 MA's), (28, 77033), (36, 77072), (38, 77081), (59, 77261), (60, 77264), (61, 77267), (65, 77303), (70, 77354), (76, 77417), (89, 77528), (90, 77531), (93, 77564), (94, 77567), (95, 77570), (97, 77588), (103, 77621), (106, 77645), (110, 77660), (115, 77732), (117, 77741),

Gene: SeresaTree_73 Start: 56167, Stop: 56952, Start Num: 11
Candidate Starts for SeresaTree_73:
(Start: 11 @56167 has 5 MA's), (31, 56236), (37, 56263), (55, 56416), (66, 56503), (79, 56620), (81, 56641), (85, 56662), (96, 56743), (100, 56779), (102, 56788), (111, 56839), (116, 56914), (119, 56932),

Gene: Sham_69 Start: 56839, Stop: 57630, Start Num: 10
Candidate Starts for Sham_69:
(Start: 10 @56839 has 19 MA's), (Start: 12 @56845 has 39 MA's), (37, 56941), (52, 57079), (55, 57094), (59, 57133), (79, 57298), (85, 57340), (88, 57370), (96, 57421), (102, 57466), (116, 57592), (118, 57607), (119, 57610),

Gene: Shuckle_86 Start: 65449, Stop: 66222, Start Num: 15
Candidate Starts for Shuckle_86:
(Start: 15 @65449 has 40 MA's), (55, 65692), (62, 65749), (68, 65806), (85, 65938), (86, 65944), (96, 66019), (102, 66064), (114, 66160), (119, 66205), (120, 66211),

Gene: Sollertia_91 Start: 64669, Stop: 65442, Start Num: 12
Candidate Starts for Sollertia_91:
(8, 64660), (Start: 12 @64669 has 39 MA's), (55, 64912), (71, 65038), (85, 65158), (93, 65227), (96, 65239), (102, 65284), (119, 65425), (120, 65431),

Gene: SparkleGoddess_71 Start: 56443, Stop: 57225, Start Num: 10
Candidate Starts for SparkleGoddess_71:
(Start: 10 @56443 has 19 MA's), (31, 56509), (44, 56632), (48, 56650), (55, 56689), (59, 56728), (66, 56776), (79, 56893), (85, 56935), (87, 56956), (89, 56968), (96, 57016), (102, 57061), (111, 57112), (119, 57205),

Gene: Spelly_91 Start: 64668, Stop: 65441, Start Num: 12
Candidate Starts for Spelly_91:
(8, 64659), (Start: 12 @64668 has 39 MA's), (55, 64911), (71, 65037), (73, 65058), (85, 65157), (96, 65238), (102, 65283), (119, 65424), (120, 65430),

Gene: Spilled_92 Start: 64785, Stop: 65558, Start Num: 12
Candidate Starts for Spilled_92:
(8, 64776), (Start: 12 @64785 has 39 MA's), (55, 65028), (71, 65154), (73, 65175), (85, 65274), (96, 65355), (102, 65400), (119, 65541), (120, 65547),

Gene: Squillium_87 Start: 64665, Stop: 65438, Start Num: 15
Candidate Starts for Squillium_87:
(Start: 15 @64665 has 40 MA's), (55, 64908), (62, 64965), (68, 65022), (82, 65136), (85, 65154), (86, 65160), (96, 65235), (102, 65280), (114, 65376), (119, 65421), (120, 65427),

Gene: Stanimal_91 Start: 64558, Stop: 65331, Start Num: 12
Candidate Starts for Stanimal_91:
(8, 64549), (Start: 12 @64558 has 39 MA's), (55, 64801), (71, 64927), (85, 65047), (93, 65116), (96, 65128), (102, 65173), (119, 65314), (120, 65320),

Gene: StarPlatinum_91 Start: 65221, Stop: 65994, Start Num: 12
Candidate Starts for StarPlatinum_91:
(8, 65212), (Start: 12 @65221 has 39 MA's), (55, 65464), (71, 65590), (85, 65710), (96, 65791), (102, 65836), (119, 65977), (120, 65983),

Gene: Starbow_89 Start: 64689, Stop: 65462, Start Num: 12
Candidate Starts for Starbow_89:
(8, 64680), (Start: 12 @64689 has 39 MA's), (55, 64932), (71, 65058), (73, 65079), (85, 65178), (96, 65259), (102, 65304), (119, 65445), (120, 65451),

Gene: Stigma_70 Start: 56451, Stop: 57233, Start Num: 10
Candidate Starts for Stigma_70:
(Start: 10 @56451 has 19 MA's), (31, 56517), (44, 56640), (48, 56658), (55, 56697), (59, 56736), (66, 56784), (79, 56901), (85, 56943), (87, 56964), (89, 56976), (96, 57024), (102, 57069), (111, 57120), (119, 57213),

Gene: Sushi23_87 Start: 65352, Stop: 66125, Start Num: 15
Candidate Starts for Sushi23_87:
(Start: 15 @65352 has 40 MA's), (55, 65595), (62, 65652), (68, 65709), (84, 65835), (85, 65841), (86, 65847), (96, 65922), (102, 65967), (114, 66063), (120, 66114),

Gene: Targaryen_88 Start: 66061, Stop: 66834, Start Num: 14
Candidate Starts for Targaryen_88:
(Start: 14 @66061 has 6 MA's), (21, 66076), (33, 66133), (55, 66304), (62, 66361), (85, 66550), (96, 66631), (102, 66676), (114, 66772), (119, 66817), (120, 66823),

Gene: Teutsch_88 Start: 65615, Stop: 66388, Start Num: 15
Candidate Starts for Teutsch_88:
(Start: 15 @65615 has 40 MA's), (26, 65645), (55, 65858), (62, 65915), (68, 65972), (84, 66098), (85, 66104), (86, 66110), (96, 66185), (102, 66230), (114, 66326), (120, 66377),

Gene: Thales_91 Start: 74069, Stop: 74926, Start Num: 5
Candidate Starts for Thales_91:
(Start: 5 @74069 has 13 MA's), (Start: 11 @74093 has 5 MA's), (28, 74150), (36, 74189), (38, 74198), (42, 74270), (59, 74378), (61, 74384), (65, 74420), (69, 74468), (70, 74471), (75, 74525), (76, 74534), (81, 74591), (82, 74594), (89, 74645), (93, 74681), (103, 74738), (115, 74849),

Gene: TomSawyer_89 Start: 64304, Stop: 65077, Start Num: 12
Candidate Starts for TomSawyer_89:
(8, 64295), (Start: 12 @64304 has 39 MA's), (55, 64547), (71, 64673), (73, 64694), (85, 64793), (96, 64874), (102, 64919), (119, 65060), (120, 65066),

Gene: Tomas_93 Start: 67469, Stop: 68242, Start Num: 12
Candidate Starts for Tomas_93:
(Start: 12 @67469 has 39 MA's), (24, 67493), (26, 67499), (32, 67535), (55, 67712), (71, 67838), (85, 67958), (92, 68024), (96, 68039), (102, 68084), (105, 68102), (120, 68231),

Gene: Toneprano_107 Start: 77085, Stop: 77906, Start Num: 5

Candidate Starts for Toneprano_107:
(Start: 5 @77085 has 13 MA's), (7, 77091), (Start: 25 @77139 has 3 MA's), (28, 77163), (36, 77202), (38, 77211), (59, 77391), (60, 77394), (61, 77397), (65, 77433), (70, 77484), (76, 77547), (89, 77658), (90, 77661), (93, 77694), (94, 77697), (95, 77700), (97, 77718), (103, 77751), (106, 77775), (110, 77790), (115, 77862), (117, 77871),

Gene: Tribute_86 Start: 64821, Stop: 65594, Start Num: 15
Candidate Starts for Tribute_86:
(Start: 15 @64821 has 40 MA's), (55, 65064), (62, 65121), (68, 65178), (84, 65304), (85, 65310), (86, 65316), (96, 65391), (102, 65436), (114, 65532), (120, 65583),

Gene: Trina_108 Start: 74062, Stop: 74832, Start Num: 19
Candidate Starts for Trina_108:
(Start: 19 @74062 has 1 MA's), (40, 74197), (55, 74293), (60, 74335), (79, 74500), (81, 74521), (85, 74542), (89, 74575), (92, 74608), (93, 74611), (96, 74623), (102, 74668), (118, 74809),

Gene: Tuesday_94 Start: 64851, Stop: 65624, Start Num: 12
Candidate Starts for Tuesday_94:
(8, 64842), (Start: 12 @64851 has 39 MA's), (55, 65094), (71, 65220), (73, 65241), (85, 65340), (96, 65421), (102, 65466), (119, 65607), (120, 65613),

Gene: TunaTartare_72 Start: 57339, Stop: 58130, Start Num: 10
Candidate Starts for TunaTartare_72:
(Start: 10 @57339 has 19 MA's), (Start: 12 @57345 has 39 MA's), (37, 57441), (52, 57579), (55, 57594), (72, 57723), (79, 57798), (85, 57840), (88, 57870), (96, 57921), (99, 57942), (102, 57966), (116, 58092), (119, 58110),

Gene: Twin_105 Start: 77115, Stop: 77936, Start Num: 5
Candidate Starts for Twin_105:
(Start: 5 @77115 has 13 MA's), (7, 77121), (Start: 25 @77169 has 3 MA's), (28, 77193), (36, 77232), (38, 77241), (59, 77421), (60, 77424), (61, 77427), (65, 77463), (70, 77514), (76, 77577), (89, 77688), (90, 77691), (93, 77724), (94, 77727), (95, 77730), (97, 77748), (103, 77781), (106, 77805), (110, 77820), (115, 77892), (117, 77901),

Gene: UBSmoodge_112 Start: 80309, Stop: 81130, Start Num: 5
Candidate Starts for UBSmoodge_112:
(Start: 5 @80309 has 13 MA's), (7, 80315), (36, 80426), (38, 80435), (59, 80615), (60, 80618), (61, 80621), (65, 80657), (76, 80771), (90, 80885), (93, 80918), (94, 80921), (95, 80924), (97, 80942), (103, 80975), (115, 81086),

Gene: Wakanda_67 Start: 56378, Stop: 57160, Start Num: 15
Candidate Starts for Wakanda_67:
(Start: 15 @56378 has 40 MA's), (37, 56471), (49, 56591), (55, 56624), (59, 56663), (66, 56711), (67, 56726), (85, 56870), (96, 56951), (102, 56996), (107, 57038), (119, 57140),

Gene: Warpy_91 Start: 65524, Stop: 66297, Start Num: 14
Candidate Starts for Warpy_91:
(Start: 14 @65524 has 6 MA's), (21, 65539), (31, 65587), (33, 65596), (55, 65767), (62, 65824), (85, 66013), (96, 66094), (102, 66139), (114, 66235), (119, 66280), (120, 66286),

Gene: WashU_88 Start: 65130, Stop: 65903, Start Num: 15
Candidate Starts for WashU_88:

(Start: 15 @65130 has 40 MA's), (55, 65373), (62, 65430), (68, 65487), (84, 65613), (85, 65619), (86, 65625), (96, 65700), (102, 65745), (114, 65841), (120, 65892),

Gene: Watermoore_88 Start: 65831, Stop: 66604, Start Num: 15
Candidate Starts for Watermoore_88:
(Start: 15 @65831 has 40 MA's), (55, 66074), (62, 66131), (68, 66188), (84, 66314), (85, 66320), (86, 66326), (96, 66401), (102, 66446), (114, 66542), (120, 66593),

Gene: Weasels2_108 Start: 67583, Stop: 68353, Start Num: 18
Candidate Starts for Weasels2_108:
(Start: 18 @67583 has 1 MA's), (23, 67601), (40, 67721), (44, 67760), (45, 67763), (49, 67784), (54, 67808), (60, 67859), (85, 68057), (95, 68132), (102, 68183), (108, 68228),

Gene: Westy_72 Start: 56443, Stop: 57225, Start Num: 10
Candidate Starts for Westy_72:
(Start: 10 @56443 has 19 MA's), (31, 56509), (44, 56632), (48, 56650), (55, 56689), (59, 56728), (66, 56776), (79, 56893), (85, 56935), (87, 56956), (89, 56968), (96, 57016), (102, 57061), (111, 57112), (119, 57205),

Gene: WhereRU_85 Start: 64099, Stop: 64872, Start Num: 15
Candidate Starts for WhereRU_85:
(Start: 15 @64099 has 40 MA's), (55, 64342), (62, 64399), (68, 64456), (82, 64570), (85, 64588), (86, 64594), (96, 64669), (102, 64714), (114, 64810), (119, 64855), (120, 64861),

Gene: Wipeout_88 Start: 65055, Stop: 65828, Start Num: 12
Candidate Starts for Wipeout_88:
(8, 65046), (Start: 12 @65055 has 39 MA's), (55, 65298), (71, 65424), (73, 65445), (85, 65544), (96, 65625), (102, 65670), (119, 65811), (120, 65817),

Gene: Wofford_90 Start: 65756, Stop: 66529, Start Num: 12
Candidate Starts for Wofford_90:
(9, 65750), (Start: 12 @65756 has 39 MA's), (55, 65999), (71, 66125), (85, 66245), (96, 66326), (102, 66371), (119, 66512), (120, 66518),

Gene: Yaboi_91 Start: 64646, Stop: 65419, Start Num: 12
Candidate Starts for Yaboi_91:
(8, 64637), (Start: 12 @64646 has 39 MA's), (55, 64889), (71, 65015), (85, 65135), (93, 65204), (96, 65216), (102, 65261), (119, 65402), (120, 65408),