

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 287713 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287713 has 122 members, 7 are drafts.

Phages represented in each track:

- Track 1 : LilSaint_75
- Track 2 : Cursive_74, PacManQ_75, HangryHippo_76, Coogler_76, Watermoore_76, BlueOtter_76, Leo04_77, Cross_76, Lululemon_75
- Track 3 : Larnav_76, Teutsch_76, EGole_77, Scheme_77, Peebs_75, Pepperwood_76, Sushi23_76, Tribute_74
- Track 4 : Marsus_74
- Track 5 : Daubenski_77, Cadmus_74
- Track 6 : Mildred21_74
- Track 7 : Paradiddles_72
- Track 8 : Targaryen_77
- Track 9 : Braelyn_75
- Track 10 : Evy_77
- Track 11 : Anedea_74
- Track 12 : MulchMansion_73, LilMartin_73, Angela_73
- Track 13 : FreddyDRoo_74, Squillium_75, NootNoot_72, Eliot67_74, Bartholomune_74, Liandry_75, PinkiePie_74
- Track 14 : Samisti12_76, Shuckle_74
- Track 15 : Persimmon_72, Navo_74, WhereRU_73, Davielle_73
- Track 16 : Bmoc_74
- Track 17 : Warpy_80, Jay2Jay_81
- Track 18 : Riptide_73
- Track 19 : Starbow_76, Battuta_76, Quaran19_78, Birchlyn_75, SaltySpitooon_78, JimJam_78, Bordeaux_76, Spilled_79, TomSawyer_76, Spelly_78, Amabiko_78, KentuckyRacer_78, AcciDwight_82, Gibbi_82, PumpkinSpice_77, Rikishi_78, Jollison_77, MindFlayer_76, Wipeout_76
- Track 20 : BoomerJR_78, AngryGiraffe_77, Sollertia_78, Stanimal_78, Genie2_78, Yaboi_78
- Track 21 : CeilingFan_77, Karimac_77, IchabodCrane_75, Brizzy_77
- Track 22 : LukeCage_77
- Track 23 : StarPlatinum_78
- Track 24 : Enygma_78
- Track 25 : Elmer_80, Wofford_77
- Track 26 : Mugiwara_77
- Track 27 : Tomas_80
- Track 28 : Jada_55, Maupel_55, Gilson_56, Emma1919_57, Forrest_57, MeganTheeKilla_54
- Track 29 : Phredrick_55

- Track 30 : Annadreamy_53, Limpid_53
- Track 31 : Moab_56
- Track 32 : Beuffert_53, Blueeyedbeauty_55
- Track 33 : Belfort_57, Westy_56, Comrade_56, Karp_54, SparkleGoddess_56, Stigma_55
- Track 34 : SeresaTree_55, Faust_56
- Track 35 : Patelgo_56
- Track 36 : Francob_54
- Track 37 : Sham_52
- Track 38 : TunaTartare_54
- Track 39 : Kenrey_57
- Track 40 : DeluluLabubu_55
- Track 41 : Circinus_53
- Track 42 : BillNye_52
- Track 43 : Muntaha_53, Wakanda_52
- Track 44 : Chaewon_55
- Track 45 : Weasels2_97
- Track 46 : Grayson_98
- Track 47 : Peregrin_95
- Track 48 : NiceHouse_86
- Track 49 : Trina_97
- Track 50 : Dorin_72
- Track 51 : Francesca_71
- Track 52 : Nova53_68

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

The start number called the most often in the published annotations is 7, it was called in 72 of the 115 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Anedeaa_74, Angela_73, Annadreamy_53, Bartholomune_74, Belfort_57, Beuffert_53, BillNye_52, BlueOtter_76, Blueeyedbeauty_55, Bmoc_74, Braelyn_75, Cadmus_74, Chaewon_55, Circinus_53, Comrade_56, Coogler_76, Cross_76, Cursive_74, Daubenski_77, Davielle_73, DeluluLabubu_55, EGole_77, Eliot67_74, Emma1919_57, Evy_77, Faust_56, Forrest_57, Francob_54, FreddyDRoo_74, Gilson_56, HangryHippo_76, Jada_55, Karp_54, Kenrey_57, Larnav_76, Leo04_77, Liandry_75, LilMartin_73, LilSaint_75, Limpid_53, Lululemon_75, Marsus_74, Maupel_55, MeganTheeKilla_54, Mildred21_74, Moab_56, MulchMansion_73, Muntaha_53, Navo_74, NootNoot_72, PacManQ_75, Paradiddles_72, Patelgo_56, Peebs_75, Pepperwood_76, Persimmon_72, Phredrick_55, PinkiePie_74, Riptide_73, Samisti12_76, Scheme_77, SeresaTree_55, Sham_52, Shuckle_74, SparkleGoddess_56, Squillium_75, Stigma_55, Sushi23_76, Targaryen_77, Teutsch_76, Tomas_80, Tribute_74, TunaTartare_54, Wakanda_52, Watermoore_76, Westy_56, WhereRU_73,

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

• Jay2Jay_81, Warpy_80,

Genes that do not have the "Most Annotated" start:

- AcciDwight_82, Amabiko_78, AngryGiraffe_77, Battuta_76, Birchlyn_75, BoomerJR_78, Bordeaux_76, Brizzy_77, CeilingFan_77, Dorin_72, Elmer_80, Enygma_78, Francesca_71, Genie2_78, Gibbi_82, Grayson_98, IchabodCrane_75, JimJam_78, Jollison_77, Karimac_77, KentuckyRacer_78, LukeCage_77, MindFlayer_76, Mugiwara_77, NiceHouse_86, Nova53_68, Peregrin_95, PumpkinSpice_77, Quaran19_78, Rikishi_78, SaltySpittoon_78, Sollertia_78, Spelly_78, Spilled_79, Stanimal_78, StarPlatinum_78, Starbow_76, TomSawyer_76, Trina_97, Weasels2_97, Wipeout_76, Wofford_77, Yaboi_78,

Summary by start number:

Start 6:

- Found in 35 of 122 (28.7%) of genes in pham
- Manual Annotations of this start: 33 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_82 (BE2), Amabiko_78 (BE2), AngryGiraffe_77 (BE2), Battuta_76 (BE2), Birchlyn_75 (BE2), BoomerJR_78 (BE2), Bordeaux_76 (BE2), Brizzy_77 (BE2), CeilingFan_77 (BE2), Elmer_80 (BE2), Enygma_78 (BE2), Genie2_78 (BE2), Gibbi_82 (BE2), IchabodCrane_75 (BE2), JimJam_78 (BE2), Jollison_77 (BE2), Karimac_77 (BE2), KentuckyRacer_78 (BE2), LukeCage_77 (BE2), MindFlayer_76 (BE2), Mugiwara_77 (BE2), PumpkinSpice_77 (BE2), Quaran19_78 (BE2), Rikishi_78 (BE2), SaltySpittoon_78 (BE2), Sollertia_78 (BE2), Spelly_78 (BE2), Spilled_79 (BE2), Stanimal_78 (BE2), StarPlatinum_78 (BE2), Starbow_76 (BE2), TomSawyer_76 (BE2), Wipeout_76 (BE2), Wofford_77 (BE2), Yaboi_78 (BE2),

Start 7:

- Found in 79 of 122 (64.8%) of genes in pham
- Manual Annotations of this start: 72 of 115
- Called 97.5% of time when present
- Phage (with cluster) where this start called: Anedea_74 (BE1), Angela_73 (BE1), Annadreamy_53 (BK1), Bartholomune_74 (BE1), Belfort_57 (BK1), Beuffert_53 (BK1), BillNye_52 (BK2), BlueOtter_76 (BE1), Blueeyedbeauty_55 (BK1), Bmoc_74 (BE1), Braelyn_75 (BE1), Cadmus_74 (BE1), Chaewon_55 (BK2), Circinus_53 (BK2), Comrade_56 (BK1), Coogler_76 (BE1), Cross_76 (BE1), Cursive_74 (BE1), Daubenski_77 (BE1), Davielle_73 (BE1), DeluluLabubu_55 (BK1), EGole_77 (BE1), Eliot67_74 (BE1), Emma1919_57 (BK1), Evy_77 (BE1), Faust_56 (BK1), Forrest_57 (BK1), Francob_54 (BK1), FreddyDRoo_74 (BE1), Gilson_56 (BK1), HangryHippo_76 (BE1), Jada_55 (BK1), Karp_54 (BK1), Kenrey_57 (BK1), Larnav_76 (BE1), Leo04_77 (BE1), Liandry_75 (BE1), LilMartin_73 (BE1), LilSaint_75 (BE1), Limpid_53 (BK1), Lululemon_75 (BE1), Marsus_74 (BE1), Maupel_55 (BK1), MeganTheeKilla_54 (BK1), Mildred21_74 (BE1), Moab_56 (BK1), MulchMansion_73 (BE1), Muntaha_53 (BK2), Navo_74 (BE1), NootNoot_72 (BE1), PacManQ_75 (BE1), Paradiddles_72 (BE1), Patelgo_56 (BK1), Peebs_75 (BE1), Pepperwood_76 (BE1), Persimmon_72 (BE1), Phredrick_55 (BK1), PinkiePie_74 (BE1), Riptide_73 (BE1), Samisti12_76 (BE1), Scheme_77 (BE1), SeresaTree_55 (BK1), Sham_52 (BK1), Shuckle_74 (BE1), SparkleGoddess_56 (BK1), Squillium_75 (BE1), Stigma_55 (BK1), Sushi23_76 (BE1), Targaryen_77 (BE1), Teutsch_76 (BE1), Tomas_80 (BE2), Tribute_74 (BE1), TunaTartare_54 (BK1), Wakanda_52 (BK2), Watermoore_76 (BE1), Westy_56 (BK1), WhereRU_73 (BE1),

Start 8:

- Found in 3 of 122 (2.5%) of genes in pham

- Manual Annotations of this start: 3 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_98 (CB), Peregrin_95 (CB), Weasels2_97 (CB),

Start 9:

- Found in 5 of 122 (4.1%) of genes in pham
- Manual Annotations of this start: 4 of 115
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Dorin_72 (CG), Francesca_71 (CG), NiceHouse_86 (CE), Trina_97 (CE),

Start 14:

- Found in 4 of 122 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 115
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Nova53_68 (CG),

Start 25:

- Found in 83 of 122 (68.0%) of genes in pham
- Manual Annotations of this start: 2 of 115
- Called 2.4% of time when present
- Phage (with cluster) where this start called: Jay2Jay_81 (BE1), Warpy_80 (BE1),

Summary by clusters:

There are 7 clusters represented in this pham: CB, CG, CE, BK1, BK2, BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 7 was manually annotated 43 times for cluster BE1.
- Start number 25 was manually annotated 2 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 6 was manually annotated 33 times for cluster BE2.
- Start number 7 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 7 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 7 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster CB:

- Start number 8 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:

- Start number 9 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:

- Start number 9 was manually annotated 2 times for cluster CG.
- Start number 14 was manually annotated 1 time for cluster CG.

Gene Information:

Gene: AcciDwight_82 Start: 54886, Stop: 56106, Start Num: 6

Candidate Starts for AcciDwight_82:

(2, 54823), (Start: 6 @54886 has 33 MA's), (16, 54949), (22, 54991), (24, 55003), (Start: 25 @55018 has 2 MA's), (34, 55081), (39, 55147), (42, 55159), (44, 55171), (49, 55219), (66, 55393), (69, 55414), (75, 55498), (78, 55516), (79, 55531), (80, 55552), (81, 55555), (94, 55705), (96, 55741), (102, 55807), (103, 55810), (108, 55840), (117, 55918), (121, 55966), (131, 56101),

Gene: Amabiko_78 Start: 54931, Stop: 56151, Start Num: 6

Candidate Starts for Amabiko_78:

(2, 54868), (Start: 6 @54931 has 33 MA's), (16, 54994), (22, 55036), (24, 55048), (Start: 25 @55063 has 2 MA's), (34, 55126), (39, 55192), (42, 55204), (44, 55216), (49, 55264), (66, 55438), (69, 55459), (75, 55543), (78, 55561), (79, 55576), (80, 55597), (81, 55600), (94, 55750), (96, 55786), (102, 55852), (103, 55855), (108, 55885), (117, 55963), (121, 56011), (131, 56146),

Gene: Anedea_74 Start: 54533, Stop: 55753, Start Num: 7

Candidate Starts for Anedea_74:

(Start: 7 @54533 has 72 MA's), (13, 54584), (21, 54626), (Start: 25 @54665 has 2 MA's), (27, 54695), (30, 54719), (39, 54794), (42, 54806), (66, 55040), (69, 55061), (75, 55145), (78, 55163), (79, 55178), (81, 55202), (102, 55454), (104, 55460), (117, 55562), (121, 55610), (124, 55649),

Gene: Angela_73 Start: 53992, Stop: 55212, Start Num: 7

Candidate Starts for Angela_73:

(Start: 7 @53992 has 72 MA's), (13, 54043), (Start: 25 @54124 has 2 MA's), (27, 54154), (34, 54187), (39, 54253), (42, 54265), (66, 54499), (69, 54520), (75, 54604), (78, 54622), (79, 54637), (81, 54661), (102, 54913), (117, 55021), (121, 55069), (124, 55108),

Gene: AngryGiraffe_77 Start: 54882, Stop: 56102, Start Num: 6

Candidate Starts for AngryGiraffe_77:

(Start: 6 @54882 has 33 MA's), (16, 54945), (24, 54999), (Start: 25 @55014 has 2 MA's), (33, 55074), (39, 55143), (42, 55155), (44, 55167), (49, 55215), (66, 55389), (69, 55410), (75, 55494), (78, 55512), (79, 55527), (80, 55548), (81, 55551), (90, 55662), (102, 55803), (103, 55806), (108, 55836), (109, 55854), (117, 55914), (121, 55962), (131, 56097),

Gene: Annadreamy_53 Start: 43929, Stop: 45146, Start Num: 7

Candidate Starts for Annadreamy_53:

(Start: 7 @43929 has 72 MA's), (27, 44088), (42, 44199), (45, 44220), (51, 44280), (60, 44355), (66, 44436), (69, 44457), (75, 44541), (78, 44559), (79, 44574), (80, 44595), (81, 44598), (89, 44703), (102, 44850), (104, 44856), (106, 44874), (108, 44883), (117, 44958), (118, 44961), (121, 45006), (126, 45081), (130, 45123),

Gene: Bartholomune_74 Start: 54352, Stop: 55572, Start Num: 7

Candidate Starts for Bartholomune_74:

(3, 54316), (4, 54325), (Start: 7 @54352 has 72 MA's), (13, 54403), (Start: 25 @54484 has 2 MA's), (27, 54514), (28, 54517), (35, 54553), (39, 54613), (42, 54625), (66, 54859), (69, 54880), (75, 54964), (78, 54982), (79, 54997), (81, 55021), (102, 55273), (104, 55279), (117, 55381), (121, 55429), (124, 55468),

Gene: Battuta_76 Start: 54905, Stop: 56125, Start Num: 6

Candidate Starts for Battuta_76:

(2, 54842), (Start: 6 @54905 has 33 MA's), (16, 54968), (22, 55010), (24, 55022), (Start: 25 @55037 has 2 MA's), (34, 55100), (39, 55166), (42, 55178), (44, 55190), (49, 55238), (66, 55412), (69, 55433),

(75, 55517), (78, 55535), (79, 55550), (80, 55571), (81, 55574), (94, 55724), (96, 55760), (102, 55826), (103, 55829), (108, 55859), (117, 55937), (121, 55985), (131, 56120),

Gene: Belfort_57 Start: 46466, Stop: 47683, Start Num: 7

Candidate Starts for Belfort_57:

(Start: 7 @46466 has 72 MA's), (38, 46712), (51, 46817), (53, 46838), (65, 46958), (66, 46973), (69, 46994), (75, 47078), (78, 47096), (79, 47111), (80, 47132), (81, 47135), (89, 47240), (92, 47270), (102, 47387), (106, 47411), (117, 47495), (118, 47498), (121, 47543), (124, 47582), (126, 47618), (130, 47660),

Gene: Beuffert_53 Start: 45067, Stop: 46284, Start Num: 7

Candidate Starts for Beuffert_53:

(Start: 7 @45067 has 72 MA's), (42, 45337), (45, 45358), (51, 45418), (60, 45493), (65, 45559), (66, 45574), (69, 45595), (75, 45679), (78, 45697), (79, 45712), (80, 45733), (81, 45736), (89, 45841), (102, 45988), (104, 45994), (106, 46012), (108, 46021), (117, 46096), (118, 46099), (121, 46144), (126, 46219), (130, 46261),

Gene: BillNye_52 Start: 47916, Stop: 49136, Start Num: 7

Candidate Starts for BillNye_52:

(Start: 7 @47916 has 72 MA's), (18, 47991), (22, 48021), (39, 48177), (42, 48189), (48, 48249), (66, 48426), (67, 48441), (75, 48531), (78, 48549), (79, 48564), (80, 48585), (81, 48588), (89, 48693), (99, 48795), (102, 48840), (106, 48864), (108, 48873), (114, 48924), (117, 48948), (118, 48951), (121, 48996), (125, 49044), (126, 49071),

Gene: Birchlyn_75 Start: 52788, Stop: 54008, Start Num: 6

Candidate Starts for Birchlyn_75:

(2, 52725), (Start: 6 @52788 has 33 MA's), (16, 52851), (22, 52893), (24, 52905), (Start: 25 @52920 has 2 MA's), (34, 52983), (39, 53049), (42, 53061), (44, 53073), (49, 53121), (66, 53295), (69, 53316), (75, 53400), (78, 53418), (79, 53433), (80, 53454), (81, 53457), (94, 53607), (96, 53643), (102, 53709), (103, 53712), (108, 53742), (117, 53820), (121, 53868), (131, 54003),

Gene: BlueOtter_76 Start: 55726, Stop: 56946, Start Num: 7

Candidate Starts for BlueOtter_76:

(Start: 7 @55726 has 72 MA's), (13, 55777), (Start: 25 @55858 has 2 MA's), (27, 55888), (28, 55891), (42, 55999), (58, 56137), (66, 56233), (69, 56254), (75, 56338), (78, 56356), (79, 56371), (81, 56395), (86, 56479), (102, 56647), (117, 56755), (121, 56803), (124, 56842),

Gene: Blueeyedbeauty_55 Start: 44441, Stop: 45658, Start Num: 7

Candidate Starts for Blueeyedbeauty_55:

(Start: 7 @44441 has 72 MA's), (42, 44711), (45, 44732), (51, 44792), (60, 44867), (65, 44933), (66, 44948), (69, 44969), (75, 45053), (78, 45071), (79, 45086), (80, 45107), (81, 45110), (89, 45215), (102, 45362), (104, 45368), (106, 45386), (108, 45395), (117, 45470), (118, 45473), (121, 45518), (126, 45593), (130, 45635),

Gene: Bmoc_74 Start: 54370, Stop: 55590, Start Num: 7

Candidate Starts for Bmoc_74:

(Start: 7 @54370 has 72 MA's), (13, 54421), (21, 54463), (Start: 25 @54502 has 2 MA's), (27, 54532), (39, 54631), (42, 54643), (66, 54877), (69, 54898), (75, 54982), (78, 55000), (79, 55015), (81, 55039), (92, 55174), (102, 55291), (117, 55399), (121, 55447), (124, 55486),

Gene: BoomerJR_78 Start: 54771, Stop: 55991, Start Num: 6

Candidate Starts for BoomerJR_78:

(Start: 6 @54771 has 33 MA's), (16, 54834), (24, 54888), (Start: 25 @54903 has 2 MA's), (33, 54963), (39, 55032), (42, 55044), (44, 55056), (49, 55104), (66, 55278), (69, 55299), (75, 55383), (78, 55401), (79, 55416), (80, 55437), (81, 55440), (90, 55551), (102, 55692), (103, 55695), (108, 55725), (109, 55743), (117, 55803), (121, 55851), (131, 55986),

Gene: Bordeaux_76 Start: 55060, Stop: 56280, Start Num: 6

Candidate Starts for Bordeaux_76:

(2, 54997), (Start: 6 @55060 has 33 MA's), (16, 55123), (22, 55165), (24, 55177), (Start: 25 @55192 has 2 MA's), (34, 55255), (39, 55321), (42, 55333), (44, 55345), (49, 55393), (66, 55567), (69, 55588), (75, 55672), (78, 55690), (79, 55705), (80, 55726), (81, 55729), (94, 55879), (96, 55915), (102, 55981), (103, 55984), (108, 56014), (117, 56092), (121, 56140), (131, 56275),

Gene: Braelyn_75 Start: 55119, Stop: 56339, Start Num: 7

Candidate Starts for Braelyn_75:

(3, 55083), (4, 55092), (Start: 7 @55119 has 72 MA's), (13, 55170), (Start: 25 @55251 has 2 MA's), (27, 55281), (28, 55284), (35, 55320), (39, 55380), (42, 55392), (66, 55626), (69, 55647), (75, 55731), (78, 55749), (79, 55764), (81, 55788), (101, 56028), (102, 56040), (104, 56046), (117, 56148), (121, 56196), (124, 56235),

Gene: Brizzy_77 Start: 54579, Stop: 55799, Start Num: 6

Candidate Starts for Brizzy_77:

(Start: 6 @54579 has 33 MA's), (16, 54642), (24, 54696), (Start: 25 @54711 has 2 MA's), (34, 54774), (39, 54840), (42, 54852), (44, 54864), (49, 54912), (66, 55086), (69, 55107), (75, 55191), (78, 55209), (79, 55224), (80, 55245), (81, 55248), (94, 55398), (96, 55434), (102, 55500), (103, 55503), (108, 55533), (117, 55611), (121, 55659), (131, 55794),

Gene: Cadmus_74 Start: 54698, Stop: 55918, Start Num: 7

Candidate Starts for Cadmus_74:

(Start: 7 @54698 has 72 MA's), (Start: 25 @54830 has 2 MA's), (27, 54860), (28, 54863), (42, 54971), (48, 55028), (53, 55070), (66, 55205), (69, 55226), (75, 55310), (78, 55328), (79, 55343), (81, 55367), (82, 55379), (102, 55619), (104, 55625), (109, 55670), (117, 55727), (121, 55775), (124, 55814),

Gene: CeilingFan_77 Start: 54820, Stop: 56040, Start Num: 6

Candidate Starts for CeilingFan_77:

(Start: 6 @54820 has 33 MA's), (16, 54883), (24, 54937), (Start: 25 @54952 has 2 MA's), (34, 55015), (39, 55081), (42, 55093), (44, 55105), (49, 55153), (66, 55327), (69, 55348), (75, 55432), (78, 55450), (79, 55465), (80, 55486), (81, 55489), (94, 55639), (96, 55675), (102, 55741), (103, 55744), (108, 55774), (117, 55852), (121, 55900), (131, 56035),

Gene: Chaewon_55 Start: 48053, Stop: 49273, Start Num: 7

Candidate Starts for Chaewon_55:

(Start: 7 @48053 has 72 MA's), (18, 48128), (22, 48158), (39, 48314), (42, 48326), (48, 48386), (66, 48563), (67, 48578), (75, 48668), (78, 48686), (79, 48701), (80, 48722), (81, 48725), (89, 48830), (99, 48932), (102, 48977), (106, 49001), (108, 49010), (117, 49085), (118, 49088), (121, 49133), (125, 49181), (126, 49208),

Gene: Circinus_53 Start: 48055, Stop: 49275, Start Num: 7

Candidate Starts for Circinus_53:

(Start: 7 @48055 has 72 MA's), (18, 48130), (22, 48160), (27, 48217), (39, 48316), (42, 48328), (48, 48388), (66, 48565), (67, 48580), (75, 48670), (78, 48688), (79, 48703), (80, 48724), (81, 48727), (89, 48832), (99, 48934), (102, 48979), (106, 49003), (108, 49012), (114, 49063), (117, 49087), (118, 49090), (121, 49135), (125, 49183), (126, 49210),

Gene: Comrade_56 Start: 46082, Stop: 47299, Start Num: 7

Candidate Starts for Comrade_56:

(Start: 7 @46082 has 72 MA's), (38, 46328), (51, 46433), (53, 46454), (65, 46574), (66, 46589), (69, 46610), (75, 46694), (78, 46712), (79, 46727), (80, 46748), (81, 46751), (89, 46856), (92, 46886), (102, 47003), (106, 47027), (117, 47111), (118, 47114), (121, 47159), (124, 47198), (126, 47234), (130, 47276),

Gene: Coogler_76 Start: 55752, Stop: 56972, Start Num: 7

Candidate Starts for Coogler_76:

(Start: 7 @55752 has 72 MA's), (13, 55803), (Start: 25 @55884 has 2 MA's), (27, 55914), (28, 55917), (42, 56025), (58, 56163), (66, 56259), (69, 56280), (75, 56364), (78, 56382), (79, 56397), (81, 56421), (86, 56505), (102, 56673), (117, 56781), (121, 56829), (124, 56868),

Gene: Cross_76 Start: 55727, Stop: 56947, Start Num: 7

Candidate Starts for Cross_76:

(Start: 7 @55727 has 72 MA's), (13, 55778), (Start: 25 @55859 has 2 MA's), (27, 55889), (28, 55892), (42, 56000), (58, 56138), (66, 56234), (69, 56255), (75, 56339), (78, 56357), (79, 56372), (81, 56396), (86, 56480), (102, 56648), (117, 56756), (121, 56804), (124, 56843),

Gene: Cursive_74 Start: 55252, Stop: 56472, Start Num: 7

Candidate Starts for Cursive_74:

(Start: 7 @55252 has 72 MA's), (13, 55303), (Start: 25 @55384 has 2 MA's), (27, 55414), (28, 55417), (42, 55525), (58, 55663), (66, 55759), (69, 55780), (75, 55864), (78, 55882), (79, 55897), (81, 55921), (86, 56005), (102, 56173), (117, 56281), (121, 56329), (124, 56368),

Gene: Daubenski_77 Start: 55462, Stop: 56682, Start Num: 7

Candidate Starts for Daubenski_77:

(Start: 7 @55462 has 72 MA's), (Start: 25 @55594 has 2 MA's), (27, 55624), (28, 55627), (42, 55735), (48, 55792), (53, 55834), (66, 55969), (69, 55990), (75, 56074), (78, 56092), (79, 56107), (81, 56131), (82, 56143), (102, 56383), (104, 56389), (109, 56434), (117, 56491), (121, 56539), (124, 56578),

Gene: Davielle_73 Start: 54539, Stop: 55759, Start Num: 7

Candidate Starts for Davielle_73:

(3, 54503), (4, 54512), (Start: 7 @54539 has 72 MA's), (13, 54590), (Start: 25 @54671 has 2 MA's), (27, 54701), (28, 54704), (39, 54800), (42, 54812), (66, 55046), (69, 55067), (75, 55151), (78, 55169), (79, 55184), (81, 55208), (101, 55448), (102, 55460), (104, 55466), (117, 55568), (121, 55616), (124, 55655),

Gene: DeluluLabubu_55 Start: 44184, Stop: 45401, Start Num: 7

Candidate Starts for DeluluLabubu_55:

(Start: 7 @44184 has 72 MA's), (26, 44337), (38, 44430), (42, 44454), (51, 44535), (66, 44691), (69, 44712), (75, 44796), (77, 44808), (78, 44814), (79, 44829), (80, 44850), (81, 44853), (89, 44958), (95, 45036), (102, 45105), (106, 45129), (117, 45213), (118, 45216), (121, 45261), (126, 45336),

Gene: Dorin_72 Start: 56475, Stop: 57782, Start Num: 9

Candidate Starts for Dorin_72:

(Start: 9 @56475 has 4 MA's), (11, 56496), (Start: 14 @56526 has 1 MA's), (18, 56547), (20, 56559), (27, 56634), (36, 56706), (39, 56736), (49, 56814), (50, 56823), (56, 56877), (61, 56925), (78, 57114), (83, 57168), (84, 57177), (86, 57231), (93, 57294), (98, 57348), (100, 57372), (108, 57432), (113, 57468), (115, 57498), (118, 57510), (121, 57555), (122, 57561), (126, 57645), (128, 57666), (132, 57723), (136, 57756), (137, 57768), (138, 57777),

Gene: EGole_77 Start: 56673, Stop: 57893, Start Num: 7

Candidate Starts for EGole_77:

(Start: 7 @56673 has 72 MA's), (13, 56724), (Start: 25 @56805 has 2 MA's), (27, 56835), (28, 56838), (42, 56946), (58, 57084), (66, 57180), (69, 57201), (75, 57285), (78, 57303), (79, 57318), (81, 57342), (86, 57426), (102, 57594), (104, 57600), (117, 57702), (121, 57750), (124, 57789),

Gene: Eliot67_74 Start: 54394, Stop: 55614, Start Num: 7

Candidate Starts for Eliot67_74:

(3, 54358), (4, 54367), (Start: 7 @54394 has 72 MA's), (13, 54445), (Start: 25 @54526 has 2 MA's), (27, 54556), (28, 54559), (35, 54595), (39, 54655), (42, 54667), (66, 54901), (69, 54922), (75, 55006), (78, 55024), (79, 55039), (81, 55063), (102, 55315), (104, 55321), (117, 55423), (121, 55471), (124, 55510),

Gene: Elmer_80 Start: 56012, Stop: 57232, Start Num: 6

Candidate Starts for Elmer_80:

(Start: 6 @56012 has 33 MA's), (16, 56075), (22, 56117), (24, 56129), (Start: 25 @56144 has 2 MA's), (34, 56207), (39, 56273), (42, 56285), (44, 56297), (49, 56345), (66, 56519), (75, 56624), (78, 56642), (79, 56657), (80, 56678), (81, 56681), (96, 56867), (102, 56933), (103, 56936), (108, 56966), (117, 57044), (118, 57047), (121, 57092),

Gene: Emma1919_57 Start: 44867, Stop: 46084, Start Num: 7

Candidate Starts for Emma1919_57:

(Start: 7 @44867 has 72 MA's), (26, 45020), (38, 45113), (42, 45137), (51, 45218), (66, 45374), (69, 45395), (75, 45479), (78, 45497), (79, 45512), (80, 45533), (81, 45536), (89, 45641), (95, 45719), (102, 45788), (106, 45812), (117, 45896), (118, 45899), (121, 45944), (126, 46019),

Gene: Enygma_78 Start: 56714, Stop: 57934, Start Num: 6

Candidate Starts for Enygma_78:

(1, 56636), (Start: 6 @56714 has 33 MA's), (16, 56777), (22, 56819), (24, 56831), (Start: 25 @56846 has 2 MA's), (39, 56975), (42, 56987), (44, 56999), (49, 57047), (50, 57056), (66, 57221), (75, 57326), (78, 57344), (79, 57359), (80, 57380), (81, 57383), (96, 57569), (102, 57635), (103, 57638), (105, 57653), (108, 57668), (109, 57686), (117, 57746), (121, 57794), (131, 57929),

Gene: Evy_77 Start: 55620, Stop: 56840, Start Num: 7

Candidate Starts for Evy_77:

(5, 55605), (Start: 7 @55620 has 72 MA's), (Start: 25 @55752 has 2 MA's), (27, 55782), (39, 55881), (42, 55893), (55, 56010), (66, 56127), (69, 56148), (75, 56232), (78, 56250), (79, 56265), (81, 56289), (102, 56541), (104, 56547), (117, 56649), (121, 56697), (124, 56736),

Gene: Faust_56 Start: 46003, Stop: 47220, Start Num: 7

Candidate Starts for Faust_56:

(Start: 7 @46003 has 72 MA's), (43, 46276), (46, 46306), (51, 46354), (66, 46510), (69, 46531), (75, 46615), (78, 46633), (79, 46648), (80, 46669), (81, 46672), (85, 46717), (89, 46777), (95, 46855), (102, 46924), (106, 46948), (117, 47032), (118, 47035), (121, 47080), (126, 47155), (130, 47197),

Gene: Forrest_57 Start: 45564, Stop: 46781, Start Num: 7

Candidate Starts for Forrest_57:

(Start: 7 @45564 has 72 MA's), (26, 45717), (38, 45810), (42, 45834), (51, 45915), (66, 46071), (69, 46092), (75, 46176), (78, 46194), (79, 46209), (80, 46230), (81, 46233), (89, 46338), (95, 46416), (102, 46485), (106, 46509), (117, 46593), (118, 46596), (121, 46641), (126, 46716),

Gene: Francesca_71 Start: 56658, Stop: 57965, Start Num: 9

Candidate Starts for Francesca_71:

(Start: 9 @56658 has 4 MA's), (11, 56679), (Start: 14 @56709 has 1 MA's), (18, 56730), (20, 56742), (27, 56817), (36, 56889), (49, 56997), (50, 57006), (56, 57060), (61, 57108), (78, 57297), (83, 57351), (84, 57360), (86, 57414), (93, 57477), (98, 57531), (100, 57555), (108, 57615), (113, 57651), (115, 57681), (121, 57738), (122, 57744), (126, 57828), (128, 57849), (132, 57906), (136, 57939), (137, 57951), (138, 57960),

Gene: Francob_54 Start: 44928, Stop: 46145, Start Num: 7

Candidate Starts for Francob_54:

(Start: 7 @44928 has 72 MA's), (26, 45081), (38, 45174), (42, 45198), (66, 45435), (69, 45456), (75, 45540), (78, 45558), (79, 45573), (80, 45594), (81, 45597), (89, 45702), (95, 45780), (102, 45849), (106, 45873), (117, 45957), (118, 45960), (121, 46005), (124, 46044), (126, 46080),

Gene: FreddyDRoo_74 Start: 54394, Stop: 55614, Start Num: 7

Candidate Starts for FreddyDRoo_74:

(3, 54358), (4, 54367), (Start: 7 @54394 has 72 MA's), (13, 54445), (Start: 25 @54526 has 2 MA's), (27, 54556), (28, 54559), (35, 54595), (39, 54655), (42, 54667), (66, 54901), (69, 54922), (75, 55006), (78, 55024), (79, 55039), (81, 55063), (102, 55315), (104, 55321), (117, 55423), (121, 55471), (124, 55510),

Gene: Genie2_78 Start: 54885, Stop: 56105, Start Num: 6

Candidate Starts for Genie2_78:

(Start: 6 @54885 has 33 MA's), (16, 54948), (24, 55002), (Start: 25 @55017 has 2 MA's), (33, 55077), (39, 55146), (42, 55158), (44, 55170), (49, 55218), (66, 55392), (69, 55413), (75, 55497), (78, 55515), (79, 55530), (80, 55551), (81, 55554), (90, 55665), (102, 55806), (103, 55809), (108, 55839), (109, 55857), (117, 55917), (121, 55965), (131, 56100),

Gene: Gibbi_82 Start: 55043, Stop: 56263, Start Num: 6

Candidate Starts for Gibbi_82:

(2, 54980), (Start: 6 @55043 has 33 MA's), (16, 55106), (22, 55148), (24, 55160), (Start: 25 @55175 has 2 MA's), (34, 55238), (39, 55304), (42, 55316), (44, 55328), (49, 55376), (66, 55550), (69, 55571), (75, 55655), (78, 55673), (79, 55688), (80, 55709), (81, 55712), (94, 55862), (96, 55898), (102, 55964), (103, 55967), (108, 55997), (117, 56075), (121, 56123), (131, 56258),

Gene: Gilson_56 Start: 44820, Stop: 46037, Start Num: 7

Candidate Starts for Gilson_56:

(Start: 7 @44820 has 72 MA's), (26, 44973), (38, 45066), (42, 45090), (51, 45171), (66, 45327), (69, 45348), (75, 45432), (78, 45450), (79, 45465), (80, 45486), (81, 45489), (89, 45594), (95, 45672), (102, 45741), (106, 45765), (117, 45849), (118, 45852), (121, 45897), (126, 45972),

Gene: Grayson_98 Start: 58692, Stop: 59978, Start Num: 8

Candidate Starts for Grayson_98:

(Start: 8 @58692 has 3 MA's), (13, 58740), (15, 58749), (16, 58752), (52, 59073), (64, 59190), (66, 59214), (71, 59241), (73, 59286), (75, 59319), (78, 59337), (83, 59391), (86, 59454), (87, 59463), (93, 59517), (97, 59559), (99, 59577), (113, 59691), (125, 59841), (127, 59883), (128, 59889), (135, 59955),

Gene: HangryHippo_76 Start: 55726, Stop: 56946, Start Num: 7

Candidate Starts for HangryHippo_76:

(Start: 7 @55726 has 72 MA's), (13, 55777), (Start: 25 @55858 has 2 MA's), (27, 55888), (28, 55891), (42, 55999), (58, 56137), (66, 56233), (69, 56254), (75, 56338), (78, 56356), (79, 56371), (81, 56395), (86, 56479), (102, 56647), (117, 56755), (121, 56803), (124, 56842),

Gene: IchabodCrane_75 Start: 54632, Stop: 55852, Start Num: 6

Candidate Starts for IchabodCrane_75:

(Start: 6 @54632 has 33 MA's), (16, 54695), (24, 54749), (Start: 25 @54764 has 2 MA's), (34, 54827), (39, 54893), (42, 54905), (44, 54917), (49, 54965), (66, 55139), (69, 55160), (75, 55244), (78, 55262), (79, 55277), (80, 55298), (81, 55301), (94, 55451), (96, 55487), (102, 55553), (103, 55556), (108, 55586), (117, 55664), (121, 55712), (131, 55847),

Gene: Jada_55 Start: 44746, Stop: 45963, Start Num: 7

Candidate Starts for Jada_55:

(Start: 7 @44746 has 72 MA's), (26, 44899), (38, 44992), (42, 45016), (51, 45097), (66, 45253), (69, 45274), (75, 45358), (78, 45376), (79, 45391), (80, 45412), (81, 45415), (89, 45520), (95, 45598), (102, 45667), (106, 45691), (117, 45775), (118, 45778), (121, 45823), (126, 45898),

Gene: Jay2Jay_81 Start: 56605, Stop: 57693, Start Num: 25

Candidate Starts for Jay2Jay_81:

(5, 56458), (Start: 7 @56473 has 72 MA's), (Start: 25 @56605 has 2 MA's), (27, 56635), (39, 56734), (40, 56737), (42, 56746), (55, 56863), (66, 56980), (69, 57001), (75, 57085), (78, 57103), (79, 57118), (81, 57142), (102, 57394), (104, 57400), (117, 57502), (121, 57550), (124, 57589),

Gene: JimJam_78 Start: 55006, Stop: 56226, Start Num: 6

Candidate Starts for JimJam_78:

(2, 54943), (Start: 6 @55006 has 33 MA's), (16, 55069), (22, 55111), (24, 55123), (Start: 25 @55138 has 2 MA's), (34, 55201), (39, 55267), (42, 55279), (44, 55291), (49, 55339), (66, 55513), (69, 55534), (75, 55618), (78, 55636), (79, 55651), (80, 55672), (81, 55675), (94, 55825), (96, 55861), (102, 55927), (103, 55930), (108, 55960), (117, 56038), (121, 56086), (131, 56221),

Gene: Jollison_77 Start: 54888, Stop: 56108, Start Num: 6

Candidate Starts for Jollison_77:

(2, 54825), (Start: 6 @54888 has 33 MA's), (16, 54951), (22, 54993), (24, 55005), (Start: 25 @55020 has 2 MA's), (34, 55083), (39, 55149), (42, 55161), (44, 55173), (49, 55221), (66, 55395), (69, 55416), (75, 55500), (78, 55518), (79, 55533), (80, 55554), (81, 55557), (94, 55707), (96, 55743), (102, 55809), (103, 55812), (108, 55842), (117, 55920), (121, 55968), (131, 56103),

Gene: Karimac_77 Start: 55037, Stop: 56257, Start Num: 6

Candidate Starts for Karimac_77:

(Start: 6 @55037 has 33 MA's), (16, 55100), (24, 55154), (Start: 25 @55169 has 2 MA's), (34, 55232), (39, 55298), (42, 55310), (44, 55322), (49, 55370), (66, 55544), (69, 55565), (75, 55649), (78, 55667), (79, 55682), (80, 55703), (81, 55706), (94, 55856), (96, 55892), (102, 55958), (103, 55961), (108, 55991), (117, 56069), (121, 56117), (131, 56252),

Gene: Karp_54 Start: 45681, Stop: 46898, Start Num: 7

Candidate Starts for Karp_54:

(Start: 7 @45681 has 72 MA's), (38, 45927), (51, 46032), (53, 46053), (65, 46173), (66, 46188), (69, 46209), (75, 46293), (78, 46311), (79, 46326), (80, 46347), (81, 46350), (89, 46455), (92, 46485), (102, 46602), (106, 46626), (117, 46710), (118, 46713), (121, 46758), (124, 46797), (126, 46833), (130, 46875),

Gene: Kenrey_57 Start: 45015, Stop: 46232, Start Num: 7

Candidate Starts for Kenrey_57:

(Start: 7 @45015 has 72 MA's), (38, 45261), (42, 45285), (51, 45366), (53, 45387), (66, 45522), (67, 45537), (69, 45543), (75, 45627), (78, 45645), (79, 45660), (80, 45681), (81, 45684), (89, 45789), (95, 45867), (102, 45936), (106, 45960), (117, 46044), (118, 46047), (121, 46092), (125, 46140), (126, 46167),

Gene: KentuckyRacer_78 Start: 54821, Stop: 56041, Start Num: 6

Candidate Starts for KentuckyRacer_78:

(2, 54758), (Start: 6 @54821 has 33 MA's), (16, 54884), (22, 54926), (24, 54938), (Start: 25 @54953 has 2 MA's), (34, 55016), (39, 55082), (42, 55094), (44, 55106), (49, 55154), (66, 55328), (69, 55349), (75, 55433), (78, 55451), (79, 55466), (80, 55487), (81, 55490), (94, 55640), (96, 55676), (102, 55742), (103, 55745), (108, 55775), (117, 55853), (121, 55901), (131, 56036),

Gene: Larnav_76 Start: 55711, Stop: 56931, Start Num: 7

Candidate Starts for Larnav_76:

(Start: 7 @55711 has 72 MA's), (13, 55762), (Start: 25 @55843 has 2 MA's), (27, 55873), (28, 55876), (42, 55984), (58, 56122), (66, 56218), (69, 56239), (75, 56323), (78, 56341), (79, 56356), (81, 56380), (86, 56464), (102, 56632), (104, 56638), (117, 56740), (121, 56788), (124, 56827),

Gene: Leo04_77 Start: 56226, Stop: 57446, Start Num: 7

Candidate Starts for Leo04_77:

(Start: 7 @56226 has 72 MA's), (13, 56277), (Start: 25 @56358 has 2 MA's), (27, 56388), (28, 56391), (42, 56499), (58, 56637), (66, 56733), (69, 56754), (75, 56838), (78, 56856), (79, 56871), (81, 56895), (86, 56979), (102, 57147), (117, 57255), (121, 57303), (124, 57342),

Gene: Liandry_75 Start: 55101, Stop: 56321, Start Num: 7

Candidate Starts for Liandry_75:

(3, 55065), (4, 55074), (Start: 7 @55101 has 72 MA's), (13, 55152), (Start: 25 @55233 has 2 MA's), (27, 55263), (28, 55266), (35, 55302), (39, 55362), (42, 55374), (66, 55608), (69, 55629), (75, 55713), (78, 55731), (79, 55746), (81, 55770), (102, 56022), (104, 56028), (117, 56130), (121, 56178), (124, 56217),

Gene: LilMartin_73 Start: 53940, Stop: 55160, Start Num: 7

Candidate Starts for LilMartin_73:

(Start: 7 @53940 has 72 MA's), (13, 53991), (Start: 25 @54072 has 2 MA's), (27, 54102), (34, 54135), (39, 54201), (42, 54213), (66, 54447), (69, 54468), (75, 54552), (78, 54570), (79, 54585), (81, 54609), (102, 54861), (117, 54969), (121, 55017), (124, 55056),

Gene: LilSaint_75 Start: 54205, Stop: 55425, Start Num: 7

Candidate Starts for LilSaint_75:

(Start: 7 @54205 has 72 MA's), (13, 54256), (21, 54298), (Start: 25 @54337 has 2 MA's), (27, 54367), (30, 54391), (39, 54466), (42, 54478), (66, 54712), (69, 54733), (75, 54817), (78, 54835), (79, 54850), (81, 54874), (95, 55057), (102, 55126), (104, 55132), (117, 55234), (118, 55237), (121, 55282), (124, 55321),

Gene: Limpid_53 Start: 43928, Stop: 45145, Start Num: 7

Candidate Starts for Limpid_53:

(Start: 7 @43928 has 72 MA's), (27, 44087), (42, 44198), (45, 44219), (51, 44279), (60, 44354), (66, 44435), (69, 44456), (75, 44540), (78, 44558), (79, 44573), (80, 44594), (81, 44597), (89, 44702), (102, 44849), (104, 44855), (106, 44873), (108, 44882), (117, 44957), (118, 44960), (121, 45005), (126, 45080), (130, 45122),

Gene: LukeCage_77 Start: 54800, Stop: 56020, Start Num: 6

Candidate Starts for LukeCage_77:

(2, 54737), (Start: 6 @54800 has 33 MA's), (16, 54863), (22, 54905), (24, 54917), (Start: 25 @54932 has 2 MA's), (34, 54995), (39, 55061), (42, 55073), (44, 55085), (49, 55133), (66, 55307), (75, 55412), (78, 55430), (79, 55445), (80, 55466), (81, 55469), (96, 55655), (102, 55721), (103, 55724), (108, 55754), (117, 55832), (121, 55880),

Gene: Lululemon_75 Start: 55107, Stop: 56327, Start Num: 7

Candidate Starts for Lululemon_75:

(Start: 7 @55107 has 72 MA's), (13, 55158), (Start: 25 @55239 has 2 MA's), (27, 55269), (28, 55272), (42, 55380), (58, 55518), (66, 55614), (69, 55635), (75, 55719), (78, 55737), (79, 55752), (81, 55776), (86, 55860), (102, 56028), (117, 56136), (121, 56184), (124, 56223),

Gene: Marsus_74 Start: 54212, Stop: 55432, Start Num: 7

Candidate Starts for Marsus_74:

(Start: 7 @54212 has 72 MA's), (13, 54263), (Start: 25 @54344 has 2 MA's), (27, 54374), (34, 54407), (39, 54473), (42, 54485), (66, 54719), (69, 54740), (75, 54824), (78, 54842), (79, 54857), (81, 54881), (95, 55064), (102, 55133), (117, 55241), (121, 55289), (124, 55328),

Gene: Maupel_55 Start: 44820, Stop: 46037, Start Num: 7

Candidate Starts for Maupel_55:

(Start: 7 @44820 has 72 MA's), (26, 44973), (38, 45066), (42, 45090), (51, 45171), (66, 45327), (69, 45348), (75, 45432), (78, 45450), (79, 45465), (80, 45486), (81, 45489), (89, 45594), (95, 45672), (102, 45741), (106, 45765), (117, 45849), (118, 45852), (121, 45897), (126, 45972),

Gene: MeganTheeKilla_54 Start: 44181, Stop: 45398, Start Num: 7

Candidate Starts for MeganTheeKilla_54:

(Start: 7 @44181 has 72 MA's), (26, 44334), (38, 44427), (42, 44451), (51, 44532), (66, 44688), (69, 44709), (75, 44793), (78, 44811), (79, 44826), (80, 44847), (81, 44850), (89, 44955), (95, 45033), (102, 45102), (106, 45126), (117, 45210), (118, 45213), (121, 45258), (126, 45333),

Gene: Mildred21_74 Start: 54144, Stop: 55364, Start Num: 7

Candidate Starts for Mildred21_74:

(Start: 7 @54144 has 72 MA's), (13, 54195), (Start: 25 @54276 has 2 MA's), (27, 54306), (30, 54330), (42, 54417), (55, 54534), (66, 54651), (69, 54672), (75, 54756), (78, 54774), (79, 54789), (81, 54813), (102, 55065), (117, 55173), (121, 55221), (124, 55260),

Gene: MindFlayer_76 Start: 54539, Stop: 55759, Start Num: 6

Candidate Starts for MindFlayer_76:

(2, 54476), (Start: 6 @54539 has 33 MA's), (16, 54602), (22, 54644), (24, 54656), (Start: 25 @54671 has 2 MA's), (34, 54734), (39, 54800), (42, 54812), (44, 54824), (49, 54872), (66, 55046), (69, 55067), (75, 55151), (78, 55169), (79, 55184), (80, 55205), (81, 55208), (94, 55358), (96, 55394), (102, 55460), (103, 55463), (108, 55493), (117, 55571), (121, 55619), (131, 55754),

Gene: Moab_56 Start: 46037, Stop: 47254, Start Num: 7

Candidate Starts for Moab_56:

(Start: 7 @46037 has 72 MA's), (26, 46190), (30, 46220), (38, 46283), (42, 46307), (51, 46388), (66, 46544), (69, 46565), (75, 46649), (78, 46667), (79, 46682), (80, 46703), (81, 46706), (89, 46811), (91, 46832), (92, 46841), (102, 46958), (104, 46964), (106, 46982), (108, 46991), (117, 47066), (118, 47069), (121, 47114), (123, 47126), (126, 47189),

Gene: Mugiwara_77 Start: 55299, Stop: 56519, Start Num: 6

Candidate Starts for Mugiwara_77:

(Start: 6 @55299 has 33 MA's), (16, 55362), (22, 55404), (24, 55416), (Start: 25 @55431 has 2 MA's), (34, 55494), (39, 55560), (42, 55572), (44, 55584), (49, 55632), (66, 55806), (69, 55827), (75, 55911), (78, 55929), (79, 55944), (80, 55965), (81, 55968), (96, 56154), (102, 56220), (103, 56223), (105, 56238), (108, 56253), (109, 56271), (117, 56331), (121, 56379), (131, 56514),

Gene: MulchMansion_73 Start: 53940, Stop: 55160, Start Num: 7

Candidate Starts for MulchMansion_73:

(Start: 7 @53940 has 72 MA's), (13, 53991), (Start: 25 @54072 has 2 MA's), (27, 54102), (34, 54135), (39, 54201), (42, 54213), (66, 54447), (69, 54468), (75, 54552), (78, 54570), (79, 54585), (81, 54609), (102, 54861), (117, 54969), (121, 55017), (124, 55056),

Gene: Muntaha_53 Start: 46291, Stop: 47511, Start Num: 7

Candidate Starts for Muntaha_53:

(Start: 7 @46291 has 72 MA's), (22, 46396), (39, 46552), (42, 46564), (48, 46624), (57, 46696), (60, 46720), (66, 46801), (67, 46816), (75, 46906), (78, 46924), (79, 46939), (80, 46960), (81, 46963), (85, 47008), (89, 47068), (95, 47146), (99, 47170), (102, 47215), (106, 47239), (108, 47248), (114, 47299), (117, 47323), (118, 47326), (121, 47371), (123, 47383), (124, 47410), (126, 47446),

Gene: Navo_74 Start: 55023, Stop: 56243, Start Num: 7

Candidate Starts for Navo_74:

(3, 54987), (4, 54996), (Start: 7 @55023 has 72 MA's), (13, 55074), (Start: 25 @55155 has 2 MA's), (27, 55185), (28, 55188), (39, 55284), (42, 55296), (66, 55530), (69, 55551), (75, 55635), (78, 55653), (79, 55668), (81, 55692), (101, 55932), (102, 55944), (104, 55950), (117, 56052), (121, 56100), (124, 56139),

Gene: NiceHouse_86 Start: 61374, Stop: 62714, Start Num: 9

Candidate Starts for NiceHouse_86:

(Start: 9 @61374 has 4 MA's), (12, 61407), (13, 61422), (15, 61431), (16, 61434), (19, 61455), (33, 61566), (37, 61608), (41, 61644), (42, 61647), (44, 61659), (61, 61824), (66, 61890), (70, 61914), (71, 61917), (72, 61932), (76, 61998), (78, 62013), (83, 62067), (86, 62130), (93, 62190), (95, 62226), (96, 62229), (98, 62244), (100, 62268), (108, 62328), (110, 62349), (111, 62352), (120, 62433), (121, 62451), (126, 62541), (128, 62562), (129, 62568), (134, 62640), (137, 62664),

Gene: NootNoot_72 Start: 54015, Stop: 55235, Start Num: 7

Candidate Starts for NootNoot_72:

(3, 53979), (4, 53988), (Start: 7 @54015 has 72 MA's), (13, 54066), (Start: 25 @54147 has 2 MA's), (27, 54177), (28, 54180), (35, 54216), (39, 54276), (42, 54288), (66, 54522), (69, 54543), (75, 54627), (78, 54645), (79, 54660), (81, 54684), (102, 54936), (104, 54942), (117, 55044), (121, 55092), (124, 55131),

Gene: Nova53_68 Start: 56108, Stop: 57355, Start Num: 14

Candidate Starts for Nova53_68:

(Start: 9 @56057 has 4 MA's), (Start: 14 @56108 has 1 MA's), (18, 56129), (19, 56138), (20, 56141), (29, 56222), (32, 56246), (33, 56249), (37, 56291), (49, 56396), (50, 56405), (52, 56432), (54, 56450), (61, 56507), (69, 56594), (78, 56696), (83, 56750), (86, 56813), (88, 56825), (93, 56876), (94, 56879), (98, 56930), (100, 56954), (101, 56969), (108, 57014), (111, 57038), (112, 57041), (113, 57050), (115, 57080), (128, 57248), (132, 57305), (134, 57326), (136, 57338),

Gene: PacManQ_75 Start: 55107, Stop: 56327, Start Num: 7

Candidate Starts for PacManQ_75:

(Start: 7 @55107 has 72 MA's), (13, 55158), (Start: 25 @55239 has 2 MA's), (27, 55269), (28, 55272), (42, 55380), (58, 55518), (66, 55614), (69, 55635), (75, 55719), (78, 55737), (79, 55752), (81, 55776), (86, 55860), (102, 56028), (117, 56136), (121, 56184), (124, 56223),

Gene: Paradiddles_72 Start: 54279, Stop: 55499, Start Num: 7

Candidate Starts for Paradiddles_72:

(3, 54243), (4, 54252), (Start: 7 @54279 has 72 MA's), (13, 54330), (Start: 25 @54411 has 2 MA's), (27, 54441), (28, 54444), (39, 54540), (42, 54552), (66, 54786), (69, 54807), (75, 54891), (78, 54909), (79, 54924), (81, 54948), (102, 55200), (117, 55308), (121, 55356), (124, 55395),

Gene: Patelgo_56 Start: 46224, Stop: 47441, Start Num: 7

Candidate Starts for Patelgo_56:

(Start: 7 @46224 has 72 MA's), (26, 46377), (30, 46407), (38, 46470), (42, 46494), (51, 46575), (66, 46731), (69, 46752), (75, 46836), (78, 46854), (79, 46869), (80, 46890), (81, 46893), (89, 46998), (91, 47019), (102, 47145), (104, 47151), (106, 47169), (108, 47178), (117, 47253), (118, 47256), (121, 47301), (123, 47313), (126, 47376),

Gene: Peebs_75 Start: 55461, Stop: 56681, Start Num: 7

Candidate Starts for Peebs_75:

(Start: 7 @55461 has 72 MA's), (13, 55512), (Start: 25 @55593 has 2 MA's), (27, 55623), (28, 55626), (42, 55734), (58, 55872), (66, 55968), (69, 55989), (75, 56073), (78, 56091), (79, 56106), (81, 56130), (86, 56214), (102, 56382), (104, 56388), (117, 56490), (121, 56538), (124, 56577),

Gene: Pepperwood_76 Start: 55594, Stop: 56814, Start Num: 7

Candidate Starts for Pepperwood_76:

(Start: 7 @55594 has 72 MA's), (13, 55645), (Start: 25 @55726 has 2 MA's), (27, 55756), (28, 55759), (42, 55867), (58, 56005), (66, 56101), (69, 56122), (75, 56206), (78, 56224), (79, 56239), (81, 56263), (86, 56347), (102, 56515), (104, 56521), (117, 56623), (121, 56671), (124, 56710),

Gene: Peregrin_95 Start: 57059, Stop: 58345, Start Num: 8

Candidate Starts for Peregrin_95:

(Start: 8 @57059 has 3 MA's), (13, 57107), (15, 57116), (16, 57119), (19, 57140), (31, 57251), (52, 57440), (64, 57557), (66, 57581), (71, 57608), (73, 57653), (75, 57686), (78, 57704), (83, 57758), (86, 57821), (87, 57830), (93, 57884), (97, 57926), (99, 57944), (113, 58058), (125, 58208), (127, 58250), (128, 58256), (135, 58322),

Gene: Persimmon_72 Start: 53948, Stop: 55168, Start Num: 7

Candidate Starts for Persimmon_72:

(3, 53912), (4, 53921), (Start: 7 @53948 has 72 MA's), (13, 53999), (Start: 25 @54080 has 2 MA's), (27, 54110), (28, 54113), (39, 54209), (42, 54221), (66, 54455), (69, 54476), (75, 54560), (78, 54578), (79, 54593), (81, 54617), (101, 54857), (102, 54869), (104, 54875), (117, 54977), (121, 55025), (124, 55064),

Gene: Phredrick_55 Start: 44086, Stop: 45303, Start Num: 7

Candidate Starts for Phredrick_55:

(Start: 7 @44086 has 72 MA's), (26, 44239), (38, 44332), (42, 44356), (51, 44437), (53, 44458), (66, 44593), (67, 44608), (69, 44614), (75, 44698), (78, 44716), (79, 44731), (80, 44752), (81, 44755), (89, 44860), (95, 44938), (102, 45007), (106, 45031), (117, 45115), (118, 45118), (121, 45163), (125, 45211), (126, 45238),

Gene: PinkiePie_74 Start: 55101, Stop: 56321, Start Num: 7

Candidate Starts for PinkiePie_74:

(3, 55065), (4, 55074), (Start: 7 @55101 has 72 MA's), (13, 55152), (Start: 25 @55233 has 2 MA's), (27, 55263), (28, 55266), (35, 55302), (39, 55362), (42, 55374), (66, 55608), (69, 55629), (75, 55713), (78, 55731), (79, 55746), (81, 55770), (102, 56022), (104, 56028), (117, 56130), (121, 56178), (124, 56217),

Gene: PumpkinSpice_77 Start: 54931, Stop: 56151, Start Num: 6

Candidate Starts for PumpkinSpice_77:

(2, 54868), (Start: 6 @54931 has 33 MA's), (16, 54994), (22, 55036), (24, 55048), (Start: 25 @55063 has 2 MA's), (34, 55126), (39, 55192), (42, 55204), (44, 55216), (49, 55264), (66, 55438), (69, 55459), (75, 55543), (78, 55561), (79, 55576), (80, 55597), (81, 55600), (94, 55750), (96, 55786), (102, 55852), (103, 55855), (108, 55885), (117, 55963), (121, 56011), (131, 56146),

Gene: Quaran19_78 Start: 54922, Stop: 56142, Start Num: 6

Candidate Starts for Quaran19_78:

(2, 54859), (Start: 6 @54922 has 33 MA's), (16, 54985), (22, 55027), (24, 55039), (Start: 25 @55054 has 2 MA's), (34, 55117), (39, 55183), (42, 55195), (44, 55207), (49, 55255), (66, 55429), (69, 55450), (75, 55534), (78, 55552), (79, 55567), (80, 55588), (81, 55591), (94, 55741), (96, 55777), (102, 55843), (103, 55846), (108, 55876), (117, 55954), (121, 56002), (131, 56137),

Gene: Rikishi_78 Start: 54837, Stop: 56057, Start Num: 6

Candidate Starts for Rikishi_78:

(2, 54774), (Start: 6 @54837 has 33 MA's), (16, 54900), (22, 54942), (24, 54954), (Start: 25 @54969 has 2 MA's), (34, 55032), (39, 55098), (42, 55110), (44, 55122), (49, 55170), (66, 55344), (69, 55365), (75, 55449), (78, 55467), (79, 55482), (80, 55503), (81, 55506), (94, 55656), (96, 55692), (102, 55758), (103, 55761), (108, 55791), (117, 55869), (121, 55917), (131, 56052),

Gene: Riptide_73 Start: 53749, Stop: 54969, Start Num: 7

Candidate Starts for Riptide_73:

(Start: 7 @53749 has 72 MA's), (13, 53800), (21, 53842), (Start: 25 @53881 has 2 MA's), (27, 53911), (39, 54010), (42, 54022), (66, 54256), (69, 54277), (75, 54361), (78, 54379), (79, 54394), (81, 54418), (102, 54670), (104, 54676), (117, 54778), (121, 54826), (124, 54865),

Gene: SaltySpittoon_78 Start: 54931, Stop: 56151, Start Num: 6

Candidate Starts for SaltySpittoon_78:

(2, 54868), (Start: 6 @54931 has 33 MA's), (16, 54994), (22, 55036), (24, 55048), (Start: 25 @55063 has 2 MA's), (34, 55126), (39, 55192), (42, 55204), (44, 55216), (49, 55264), (66, 55438), (69, 55459), (75, 55543), (78, 55561), (79, 55576), (80, 55597), (81, 55600), (94, 55750), (96, 55786), (102, 55852), (103, 55855), (108, 55885), (117, 55963), (121, 56011), (131, 56146),

Gene: Samisti12_76 Start: 56904, Stop: 58124, Start Num: 7

Candidate Starts for Samisti12_76:

(Start: 7 @56904 has 72 MA's), (13, 56955), (Start: 25 @57036 has 2 MA's), (27, 57066), (28, 57069), (42, 57177), (66, 57411), (69, 57432), (75, 57516), (78, 57534), (79, 57549), (81, 57573), (86, 57657), (102, 57825), (104, 57831), (117, 57933), (121, 57981), (124, 58020),

Gene: Scheme_77 Start: 56308, Stop: 57528, Start Num: 7

Candidate Starts for Scheme_77:

(Start: 7 @56308 has 72 MA's), (13, 56359), (Start: 25 @56440 has 2 MA's), (27, 56470), (28, 56473), (42, 56581), (58, 56719), (66, 56815), (69, 56836), (75, 56920), (78, 56938), (79, 56953), (81, 56977), (86, 57061), (102, 57229), (104, 57235), (117, 57337), (121, 57385), (124, 57424),

Gene: SeresaTree_55 Start: 45393, Stop: 46610, Start Num: 7

Candidate Starts for SeresaTree_55:

(Start: 7 @45393 has 72 MA's), (43, 45666), (46, 45696), (51, 45744), (66, 45900), (69, 45921), (75, 46005), (78, 46023), (79, 46038), (80, 46059), (81, 46062), (85, 46107), (89, 46167), (95, 46245), (102, 46314), (106, 46338), (117, 46422), (118, 46425), (121, 46470), (126, 46545), (130, 46587),

Gene: Sham_52 Start: 45934, Stop: 47151, Start Num: 7

Candidate Starts for Sham_52:

(Start: 7 @45934 has 72 MA's), (22, 46036), (66, 46441), (69, 46462), (75, 46546), (78, 46564), (79, 46579), (80, 46600), (81, 46603), (89, 46708), (95, 46786), (102, 46855), (106, 46879), (117, 46963), (118, 46966), (121, 47011), (126, 47086), (130, 47128),

Gene: Shuckle_74 Start: 55918, Stop: 57138, Start Num: 7

Candidate Starts for Shuckle_74:

(Start: 7 @55918 has 72 MA's), (13, 55969), (Start: 25 @56050 has 2 MA's), (27, 56080), (28, 56083), (42, 56191), (66, 56425), (69, 56446), (75, 56530), (78, 56548), (79, 56563), (81, 56587), (86, 56671), (102, 56839), (104, 56845), (117, 56947), (121, 56995), (124, 57034),

Gene: Sollertia_78 Start: 54885, Stop: 56105, Start Num: 6

Candidate Starts for Sollertia_78:

(Start: 6 @54885 has 33 MA's), (16, 54948), (24, 55002), (Start: 25 @55017 has 2 MA's), (33, 55077), (39, 55146), (42, 55158), (44, 55170), (49, 55218), (66, 55392), (69, 55413), (75, 55497), (78, 55515), (79, 55530), (80, 55551), (81, 55554), (90, 55665), (102, 55806), (103, 55809), (108, 55839), (109, 55857), (117, 55917), (121, 55965), (131, 56100),

Gene: SparkleGoddess_56 Start: 46083, Stop: 47300, Start Num: 7

Candidate Starts for SparkleGoddess_56:

(Start: 7 @46083 has 72 MA's), (38, 46329), (51, 46434), (53, 46455), (65, 46575), (66, 46590), (69, 46611), (75, 46695), (78, 46713), (79, 46728), (80, 46749), (81, 46752), (89, 46857), (92, 46887), (102, 47004), (106, 47028), (117, 47112), (118, 47115), (121, 47160), (124, 47199), (126, 47235), (130, 47277),

Gene: Spelly_78 Start: 54886, Stop: 56106, Start Num: 6

Candidate Starts for Spelly_78:

(2, 54823), (Start: 6 @54886 has 33 MA's), (16, 54949), (22, 54991), (24, 55003), (Start: 25 @55018 has 2 MA's), (34, 55081), (39, 55147), (42, 55159), (44, 55171), (49, 55219), (66, 55393), (69, 55414), (75, 55498), (78, 55516), (79, 55531), (80, 55552), (81, 55555), (94, 55705), (96, 55741), (102, 55807), (103, 55810), (108, 55840), (117, 55918), (121, 55966), (131, 56101),

Gene: Spilled_79 Start: 55003, Stop: 56223, Start Num: 6

Candidate Starts for Spilled_79:

(2, 54940), (Start: 6 @55003 has 33 MA's), (16, 55066), (22, 55108), (24, 55120), (Start: 25 @55135 has 2 MA's), (34, 55198), (39, 55264), (42, 55276), (44, 55288), (49, 55336), (66, 55510), (69, 55531), (75, 55615), (78, 55633), (79, 55648), (80, 55669), (81, 55672), (94, 55822), (96, 55858), (102, 55924), (103, 55927), (108, 55957), (117, 56035), (121, 56083), (131, 56218),

Gene: Squillium_75 Start: 55102, Stop: 56322, Start Num: 7

Candidate Starts for Squillium_75:

(3, 55066), (4, 55075), (Start: 7 @55102 has 72 MA's), (13, 55153), (Start: 25 @55234 has 2 MA's), (27, 55264), (28, 55267), (35, 55303), (39, 55363), (42, 55375), (66, 55609), (69, 55630), (75, 55714), (78, 55732), (79, 55747), (81, 55771), (102, 56023), (104, 56029), (117, 56131), (121, 56179), (124, 56218),

Gene: Stanimal_78 Start: 54774, Stop: 55994, Start Num: 6

Candidate Starts for Stanimal_78:

(Start: 6 @54774 has 33 MA's), (16, 54837), (24, 54891), (Start: 25 @54906 has 2 MA's), (33, 54966), (39, 55035), (42, 55047), (44, 55059), (49, 55107), (66, 55281), (69, 55302), (75, 55386), (78, 55404), (79, 55419), (80, 55440), (81, 55443), (90, 55554), (102, 55695), (103, 55698), (108, 55728), (109, 55746), (117, 55806), (121, 55854), (131, 55989),

Gene: StarPlatinum_78 Start: 55446, Stop: 56666, Start Num: 6

Candidate Starts for StarPlatinum_78:

(Start: 6 @55446 has 33 MA's), (16, 55509), (22, 55551), (24, 55563), (Start: 25 @55578 has 2 MA's), (34, 55641), (39, 55707), (42, 55719), (44, 55731), (49, 55779), (66, 55953), (75, 56058), (78, 56076), (79, 56091), (80, 56112), (81, 56115), (96, 56301), (102, 56367), (103, 56370), (108, 56400), (117, 56478), (121, 56526), (131, 56661),

Gene: Starbow_76 Start: 54907, Stop: 56127, Start Num: 6

Candidate Starts for Starbow_76:

(2, 54844), (Start: 6 @54907 has 33 MA's), (16, 54970), (22, 55012), (24, 55024), (Start: 25 @55039 has 2 MA's), (34, 55102), (39, 55168), (42, 55180), (44, 55192), (49, 55240), (66, 55414), (69, 55435), (75, 55519), (78, 55537), (79, 55552), (80, 55573), (81, 55576), (94, 55726), (96, 55762), (102, 55828), (103, 55831), (108, 55861), (117, 55939), (121, 55987), (131, 56122),

Gene: Stigma_55 Start: 46097, Stop: 47314, Start Num: 7

Candidate Starts for Stigma_55:

(Start: 7 @46097 has 72 MA's), (38, 46343), (51, 46448), (53, 46469), (65, 46589), (66, 46604), (69, 46625), (75, 46709), (78, 46727), (79, 46742), (80, 46763), (81, 46766), (89, 46871), (92, 46901), (102, 47018), (106, 47042), (117, 47126), (118, 47129), (121, 47174), (124, 47213), (126, 47249), (130, 47291),

Gene: Sushi23_76 Start: 55819, Stop: 57039, Start Num: 7

Candidate Starts for Sushi23_76:

(Start: 7 @55819 has 72 MA's), (13, 55870), (Start: 25 @55951 has 2 MA's), (27, 55981), (28, 55984), (42, 56092), (58, 56230), (66, 56326), (69, 56347), (75, 56431), (78, 56449), (79, 56464), (81, 56488), (86, 56572), (102, 56740), (104, 56746), (117, 56848), (121, 56896), (124, 56935),

Gene: Targaryen_77 Start: 56522, Stop: 57742, Start Num: 7

Candidate Starts for Targaryen_77:

(5, 56507), (Start: 7 @56522 has 72 MA's), (Start: 25 @56654 has 2 MA's), (27, 56684), (39, 56783), (40, 56786), (42, 56795), (55, 56912), (66, 57029), (69, 57050), (75, 57134), (78, 57152), (79, 57167), (81, 57191), (102, 57443), (104, 57449), (117, 57551), (121, 57599), (124, 57638),

Gene: Teutsch_76 Start: 56082, Stop: 57302, Start Num: 7

Candidate Starts for Teutsch_76:

(Start: 7 @56082 has 72 MA's), (13, 56133), (Start: 25 @56214 has 2 MA's), (27, 56244), (28, 56247), (42, 56355), (58, 56493), (66, 56589), (69, 56610), (75, 56694), (78, 56712), (79, 56727), (81, 56751), (86, 56835), (102, 57003), (104, 57009), (117, 57111), (121, 57159), (124, 57198),

Gene: TomSawyer_76 Start: 54525, Stop: 55745, Start Num: 6

Candidate Starts for TomSawyer_76:

(2, 54462), (Start: 6 @54525 has 33 MA's), (16, 54588), (22, 54630), (24, 54642), (Start: 25 @54657 has 2 MA's), (34, 54720), (39, 54786), (42, 54798), (44, 54810), (49, 54858), (66, 55032), (69, 55053), (75, 55137), (78, 55155), (79, 55170), (80, 55191), (81, 55194), (94, 55344), (96, 55380), (102, 55446), (103, 55449), (108, 55479), (117, 55557), (121, 55605), (131, 55740),

Gene: Tomas_80 Start: 57265, Stop: 58485, Start Num: 7

Candidate Starts for Tomas_80:

(Start: 7 @57265 has 72 MA's), (16, 57328), (22, 57370), (23, 57376), (24, 57382), (Start: 25 @57397 has 2 MA's), (39, 57526), (42, 57538), (59, 57685), (60, 57691), (62, 57712), (66, 57772), (75, 57877), (78, 57895), (79, 57910), (80, 57931), (102, 58186), (104, 58192), (108, 58219), (117, 58297), (121, 58345),

Gene: Tribute_74 Start: 55288, Stop: 56508, Start Num: 7

Candidate Starts for Tribute_74:

(Start: 7 @55288 has 72 MA's), (13, 55339), (Start: 25 @55420 has 2 MA's), (27, 55450), (28, 55453), (42, 55561), (58, 55699), (66, 55795), (69, 55816), (75, 55900), (78, 55918), (79, 55933), (81, 55957), (86, 56041), (102, 56209), (104, 56215), (117, 56317), (121, 56365), (124, 56404),

Gene: Trina_97 Start: 64441, Stop: 65754, Start Num: 9

Candidate Starts for Trina_97:

(Start: 9 @64441 has 4 MA's), (10, 64459), (13, 64489), (Start: 14 @64492 has 1 MA's), (16, 64501), (19, 64522), (37, 64675), (41, 64711), (45, 64735), (47, 64756), (63, 64915), (64, 64933), (69, 64978), (70, 64981), (73, 65029), (74, 65044), (75, 65062), (78, 65080), (83, 65134), (86, 65197), (93, 65260), (98, 65314), (99, 65320), (108, 65398), (116, 65467), (119, 65485), (123, 65533), (126, 65608), (128, 65629),

Gene: TunaTartare_54 Start: 46237, Stop: 47454, Start Num: 7

Candidate Starts for TunaTartare_54:

(Start: 7 @46237 has 72 MA's), (22, 46339), (53, 46609), (66, 46744), (69, 46765), (75, 46849), (78, 46867), (79, 46882), (80, 46903), (81, 46906), (89, 47011), (95, 47089), (102, 47158), (106, 47182), (117, 47266), (118, 47269), (121, 47314), (126, 47389),

Gene: Wakanda_52 Start: 46228, Stop: 47448, Start Num: 7

Candidate Starts for Wakanda_52:

(Start: 7 @46228 has 72 MA's), (22, 46333), (39, 46489), (42, 46501), (48, 46561), (57, 46633), (60, 46657), (66, 46738), (67, 46753), (75, 46843), (78, 46861), (79, 46876), (80, 46897), (81, 46900), (85, 46945), (89, 47005), (95, 47083), (99, 47107), (102, 47152), (106, 47176), (108, 47185), (114, 47236), (117, 47260), (118, 47263), (121, 47308), (123, 47320), (124, 47347), (126, 47383),

Gene: Warpy_80 Start: 56118, Stop: 57206, Start Num: 25

Candidate Starts for Warpy_80:

(5, 55971), (Start: 7 @55986 has 72 MA's), (Start: 25 @56118 has 2 MA's), (27, 56148), (39, 56247), (40, 56250), (42, 56259), (55, 56376), (66, 56493), (69, 56514), (75, 56598), (78, 56616), (79, 56631), (81, 56655), (102, 56907), (104, 56913), (117, 57015), (121, 57063), (124, 57102),

Gene: Watermoore_76 Start: 56298, Stop: 57518, Start Num: 7

Candidate Starts for Watermoore_76:

(Start: 7 @56298 has 72 MA's), (13, 56349), (Start: 25 @56430 has 2 MA's), (27, 56460), (28, 56463), (42, 56571), (58, 56709), (66, 56805), (69, 56826), (75, 56910), (78, 56928), (79, 56943), (81, 56967), (86, 57051), (102, 57219), (117, 57327), (121, 57375), (124, 57414),

Gene: Weasels2_97 Start: 58215, Stop: 59495, Start Num: 8

Candidate Starts for Weasels2_97:

(Start: 8 @58215 has 3 MA's), (13, 58263), (16, 58275), (17, 58281), (24, 58329), (52, 58590), (64, 58707), (66, 58731), (68, 58749), (71, 58758), (73, 58803), (75, 58836), (78, 58854), (83, 58908), (86, 58971), (93, 59034), (97, 59076), (107, 59166), (128, 59406), (133, 59457),

Gene: Westy_56 Start: 46084, Stop: 47301, Start Num: 7

Candidate Starts for Westy_56:

(Start: 7 @46084 has 72 MA's), (38, 46330), (51, 46435), (53, 46456), (65, 46576), (66, 46591), (69, 46612), (75, 46696), (78, 46714), (79, 46729), (80, 46750), (81, 46753), (89, 46858), (92, 46888), (102, 47005), (106, 47029), (117, 47113), (118, 47116), (121, 47161), (124, 47200), (126, 47236), (130, 47278),

Gene: WhereRU_73 Start: 54539, Stop: 55759, Start Num: 7

Candidate Starts for WhereRU_73:

(3, 54503), (4, 54512), (Start: 7 @54539 has 72 MA's), (13, 54590), (Start: 25 @54671 has 2 MA's), (27, 54701), (28, 54704), (39, 54800), (42, 54812), (66, 55046), (69, 55067), (75, 55151), (78, 55169), (79, 55184), (81, 55208), (101, 55448), (102, 55460), (104, 55466), (117, 55568), (121, 55616), (124, 55655),

Gene: Wipeout_76 Start: 55276, Stop: 56496, Start Num: 6

Candidate Starts for Wipeout_76:

(2, 55213), (Start: 6 @55276 has 33 MA's), (16, 55339), (22, 55381), (24, 55393), (Start: 25 @55408 has 2 MA's), (34, 55471), (39, 55537), (42, 55549), (44, 55561), (49, 55609), (66, 55783), (69, 55804), (75, 55888), (78, 55906), (79, 55921), (80, 55942), (81, 55945), (94, 56095), (96, 56131), (102, 56197), (103, 56200), (108, 56230), (117, 56308), (121, 56356), (131, 56491),

Gene: Wofford_77 Start: 55975, Stop: 57195, Start Num: 6

Candidate Starts for Wofford_77:

(Start: 6 @55975 has 33 MA's), (16, 56038), (22, 56080), (24, 56092), (Start: 25 @56107 has 2 MA's), (34, 56170), (39, 56236), (42, 56248), (44, 56260), (49, 56308), (66, 56482), (75, 56587), (78, 56605), (79, 56620), (80, 56641), (81, 56644), (96, 56830), (102, 56896), (103, 56899), (108, 56929), (117, 57007), (118, 57010), (121, 57055),

Gene: Yaboi_78 Start: 54862, Stop: 56082, Start Num: 6

Candidate Starts for Yaboi_78:

(Start: 6 @54862 has 33 MA's), (16, 54925), (24, 54979), (Start: 25 @54994 has 2 MA's), (33, 55054), (39, 55123), (42, 55135), (44, 55147), (49, 55195), (66, 55369), (69, 55390), (75, 55474), (78, 55492), (79, 55507), (80, 55528), (81, 55531), (90, 55642), (102, 55783), (103, 55786), (108, 55816), (109, 55834), (117, 55894), (121, 55942), (131, 56077),