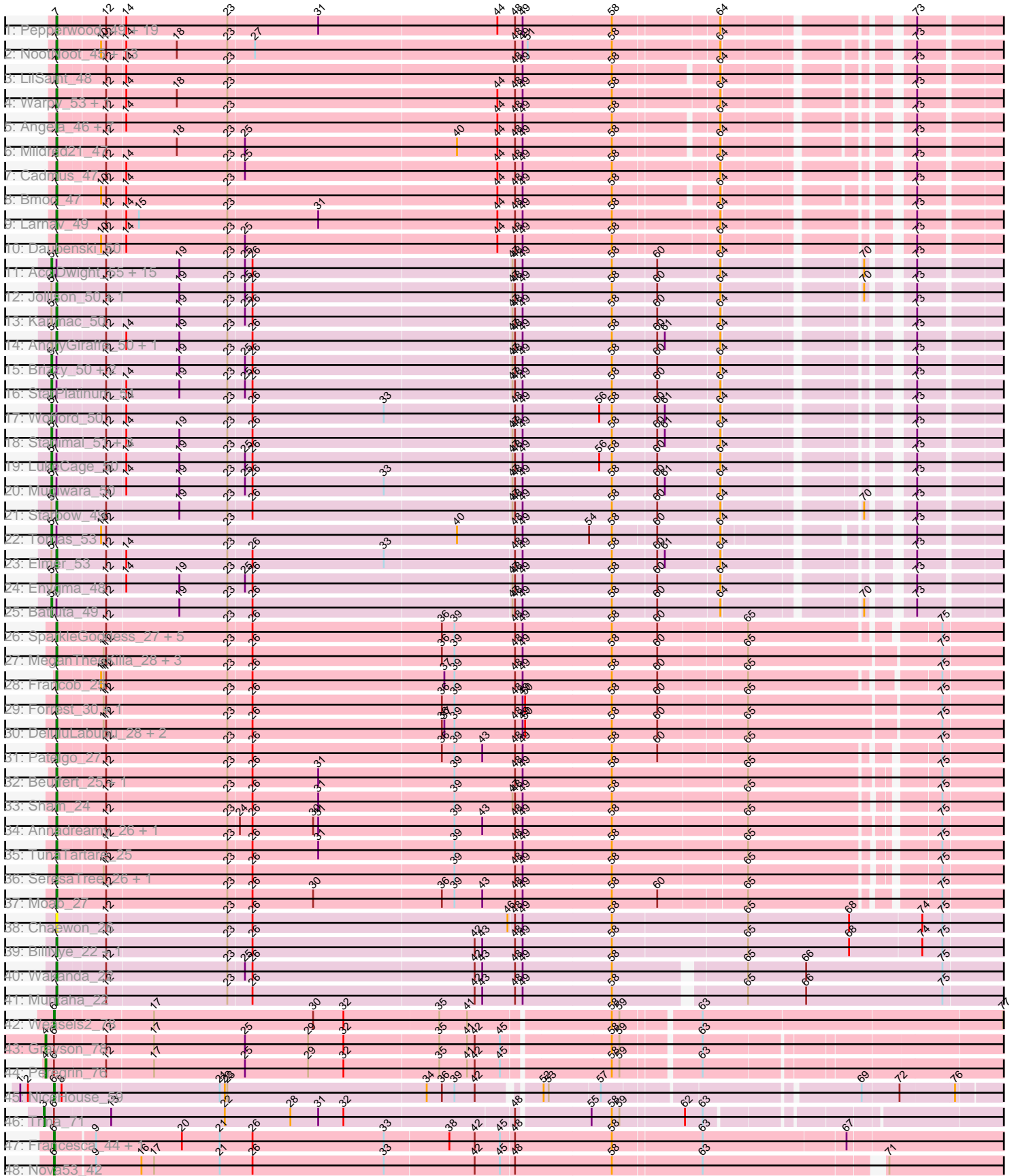


Zoomed Pham 308273



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 308273 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308273 has 126 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Pepperwood_49, HangryHippo_49, Tribute_47, Coogler_49, Shuckle_47, PacManQ_48, Sushi23_49, EGole_50, Cross_49, Scheme_50, BlueOtter_49, WashU_52, Peebs_48, Watermoore_49, Lululemon_48, Samisti12_49, Teutsch_49, ArianaSWT_52, Cursive_47, Leo04_50
- Track 2 : NootNoot_45, Liandry_48, Eliot67_46, Persimmon_45, Squillum_48, Bartholomune_47, Davielle_46, PinkiePie_47, FreddyDRoo_46, Braelyn_48, PynkPanther_54, WhereRU_46, Navo_47, Paradiddles_45
- Track 3 : LilSaint_48
- Track 4 : Warpy_53, Marsus_47
- Track 5 : Angela_46, Jay2Jay_54, Evy_50, MulchMansion_46, Targaryen_50, LilMartin_46, Riptide_46, Anedea_47
- Track 6 : Mildred21_47
- Track 7 : Cadmus_47
- Track 8 : Bmoc_47
- Track 9 : Larnav_49
- Track 10 : Daubenski_50
- Track 11 : AcciDwight_55, TomSawyer_49, Wipeout_49, KentuckyRacer_51, Birchlyn_48, JimJam_51, Bordeaux_49, Spelly_51, Rikishi_51, MindFlayer_49, Amabiko_51, CeilingFan_50, Daisy123_55, Quarant19_51, PumpkinSpice_50, SaltySpittoon_51
- Track 12 : Jollison_50, Gibbi_55
- Track 13 : Karimac_50
- Track 14 : AngryGiraffe_50, Yaboi_51
- Track 15 : Brizzy_50, IchabodCrane_48, Spilled_52
- Track 16 : StarPlatinum_51
- Track 17 : Wofford_50
- Track 18 : Stanimal_51, Sollertia_51, Genie2_51, BoomerJR_51
- Track 19 : LukeCage_50
- Track 20 : Mugiwara_50
- Track 21 : Starbow_49
- Track 22 : Tomas_53
- Track 23 : Elmer_53
- Track 24 : Enygma_48
- Track 25 : Battuta_49
- Track 26 : SparkleGoddess_27, Belfort_28, Stigma_27, Comrade_27, Westy_27, Karp_26
- Track 27 : MeganTheeKilla_28, Maupel_30, Gilson_30, Emma1919_30

- Track 28 : Francob_25
- Track 29 : Forrest_30, Jada_28
- Track 30 : DeluluLabubu_28, Phredrick_28, Kenrey_30
- Track 31 : Patelgo_27
- Track 32 : Beuffert_25, Blueeyedbeauty_28
- Track 33 : Sham_24
- Track 34 : Annadreamy_26, Limpid_26
- Track 35 : TunaTartare_25
- Track 36 : SeresaTree_26, Faust_26
- Track 37 : Moab_27
- Track 38 : Chaewon_26
- Track 39 : BillNye_22, Circinus_24
- Track 40 : Wakanda_22
- Track 41 : Muntaha_22
- Track 42 : Weasels2_78
- Track 43 : Grayson_78
- Track 44 : Peregrin_76
- Track 45 : NiceHouse_59
- Track 46 : Trina_71
- Track 47 : Francesca_44, Dorin_45
- Track 48 : Nova53_42

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 80 of the 115 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Anedea_47, Angela_46, AngryGiraffe_50, Annadreamy_26, ArianaSWT_52, Bartholomune_47, Belfort_28, Beuffert_25, BillNye_22, BlueOtter_49, Blueeyedbeauty_28, Bmoc_47, Braelyn_48, Cadmus_47, Chaewon_26, Circinus_24, Comrade_27, Coogler_49, Cross_49, Cursive_47, Daubenski_50, Davielle_46, DeluluLabubu_28, EGole_50, Eliot67_46, Elmer_53, Emma1919_30, Enygma_48, Evy_50, Faust_26, Forrest_30, Francob_25, FreddyDRoo_46, Gibbi_55, Gilson_30, HangryHippo_49, Jada_28, Jay2Jay_54, Jollison_50, Karimac_50, Karp_26, Kenrey_30, Larnav_49, Leo04_50, Liandry_48, LilMartin_46, LilSaint_48, Limpid_26, Lululemon_48, Marsus_47, Maupel_30, MeganTheeKilla_28, Mildred21_47, Moab_27, MulchMansion_46, Muntaha_22, Navo_47, NootNoot_45, PacManQ_48, Paradiddles_45, Patelgo_27, Peebs_48, Pepperwood_49, Persimmon_45, Phredrick_28, PinkiePie_47, PynkPanther_54, Riptide_46, Samisti12_49, Scheme_50, SeresaTree_26, Sham_24, Shuckle_47, SparkleGoddess_27, Squillium_48, Starbow_49, Stigma_27, Sushi23_49, Targaryen_50, Teutsch_49, Tribute_47, TunaTartare_25, Wakanda_22, Warpy_53, WashU_52, Watermoore_49, Westy_27, WhereRU_46, Yaboi_51,

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

• AcciDwight_55, Amabiko_51, Battuta_49, Birchlyn_48, BoomerJR_51, Bordeaux_49, Brizzy_50, CeilingFan_50, Daisy123_55, Genie2_51, IchabodCrane_48, JimJam_51, KentuckyRacer_51, LukeCage_50, MindFlayer_49, Mugiwara_50, PumpkinSpice_50, Quaran19_51, Rikishi_51, SaltySpittoon_51,

Sollertia_51, Spelly_51, Spilled_52, Stanimal_51, StarPlatinum_51, TomSawyer_49, Tomas_53, Wipeout_49, Wofford_50,

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

• Dorin_45, Francesca_44, Grayson_78, NiceHouse_59, Nova53_42, Peregrin_76, Trina_71, Weasels2_78,

Summary by start number:

Start 3:

- Found in 1 of 126 (0.8%) of genes in pham
- Manual Annotations of this start: 1 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Trina_71 (CE),

Start 4:

- Found in 2 of 126 (1.6%) of genes in pham
- Manual Annotations of this start: 2 of 115
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Grayson_78 (CB), Peregrin_76 (CB),

Start 5:

- Found in 37 of 126 (29.4%) of genes in pham
- Manual Annotations of this start: 27 of 115
- Called 78.4% of time when present
- Phage (with cluster) where this start called: AcciDwight_55 (BE2), Amabiko_51 (BE2), Battuta_49 (BE2), Birchlyn_48 (BE2), BoomerJR_51 (BE2), Bordeaux_49 (BE2), Brizzy_50 (BE2), CeilingFan_50 (BE2), Daisy123_55 (BE2), Genie2_51 (BE2), IchabodCrane_48 (BE2), JimJam_51 (BE2), KentuckyRacer_51 (BE2), LukeCage_50 (BE2), MindFlayer_49 (BE2), Mugiwara_50 (BE2), PumpkinSpice_50 (BE2), Quarant19_51 (BE2), Rikishi_51 (BE2), SaltySpittoon_51 (BE2), Sollertia_51 (BE2), Spelly_51 (BE2), Spilled_52 (BE2), Stanimal_51 (BE2), StarPlatinum_51 (BE2), TomSawyer_49 (BE2), Tomas_53 (BE2), Wipeout_49 (BE2), Wofford_50 (BE2),

Start 6:

- Found in 8 of 126 (6.3%) of genes in pham
- Manual Annotations of this start: 5 of 115
- Called 62.5% of time when present
- Phage (with cluster) where this start called: Dorin_45 (CG), Francesca_44 (CG), NiceHouse_59 (CE), Nova53_42 (CG), Weasels2_78 (CB),

Start 7:

- Found in 118 of 126 (93.7%) of genes in pham
- Manual Annotations of this start: 80 of 115
- Called 75.4% of time when present
- Phage (with cluster) where this start called: Anedea_47 (BE1), Angela_46 (BE1), AngryGiraffe_50 (BE2), Annadreamy_26 (BK1), ArianaSWT_52 (BE1), Bartholomune_47 (BE1), Belfort_28 (BK1), Beuffert_25 (BK1), BillNye_22 (BK2), BlueOtter_49 (BE1), Blueeyedbeauty_28 (BK1), Bmoc_47 (BE1), Braelyn_48 (BE1), Cadmus_47 (BE1), Chaewon_26 (BK2), Circinus_24 (BK2), Comrade_27 (BK1), Coogler_49 (BE1), Cross_49 (BE1), Cursive_47 (BE1), Daubenski_50 (BE1), Davielle_46 (BE1), DeluluLabubu_28 (BK1), EGole_50 (BE1), Eliot67_46 (BE1), Elmer_53 (BE2), Emma1919_30 (BK1), Enygma_48 (BE2), Evy_50 (BE1), Faust_26

(BK1), Forrest_30 (BK1), Francob_25 (BK1), FreddyDRoo_46 (BE1), Gibbi_55 (BE2), Gilson_30 (BK1), HangryHippo_49 (BE1), Jada_28 (BK1), Jay2Jay_54 (BE1), Jollison_50 (BE2), Karimac_50 (BE2), Karp_26 (BK1), Kenrey_30 (BK1), Larnav_49 (BE1), Leo04_50 (BE1), Liandry_48 (BE1), LilMartin_46 (BE1), LilSaint_48 (BE1), Limpid_26 (BK1), Lululemon_48 (BE1), Marsus_47 (BE1), Maupel_30 (BK1), MeganTheeKilla_28 (BK1), Mildred21_47 (BE1), Moab_27 (BK1), MulchMansion_46 (BE1), Muntaha_22 (BK2), Navo_47 (BE1), NootNoot_45 (BE1), PacManQ_48 (BE1), Paradiddles_45 (BE1), Patelgo_27 (BK1), Peebs_48 (BE1), Pepperwood_49 (BE1), Persimmon_45 (BE1), Phredrick_28 (BK1), PinkiePie_47 (BE1), PynkPanther_54 (BE1), Riptide_46 (BE1), Samisti12_49 (BE1), Scheme_50 (BE1), SeresaTree_26 (BK1), Sham_24 (BK1), Shuckle_47 (BE1), SparkleGoddess_27 (BK1), Squillum_48 (BE1), Starbow_49 (BE2), Stigma_27 (BK1), Sushi23_49 (BE1), Targaryen_50 (BE1), Teutsch_49 (BE1), Tribute_47 (BE1), TunaTartare_25 (BK1), Wakanda_22 (BK2), Warpy_53 (BE1), WashU_52 (BE1), Watermoore_49 (BE1), Westy_27 (BK1), WhereRU_46 (BE1), Yaboi_51 (BE2),

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 45 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 5 was manually annotated 27 times for cluster BE2.
- Start number 7 was manually annotated 7 times 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 4 was manually annotated 2 times for cluster CB.
- Start number 6 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CE:

- Start number 3 was manually annotated 1 time for cluster CE.
- Start number 6 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:

- Start number 6 was manually annotated 3 times for cluster CG.

Gene Information:

Gene: AcciDwight_55 Start: 26692, Stop: 27984, Start Num: 5

Candidate Starts for AcciDwight_55:

(Start: 5 @26692 has 27 MA's), (Start: 7 @26698 has 80 MA's), (12, 26752), (19, 26836), (23, 26893), (25, 26911), (26, 26920), (47, 27223), (48, 27226), (49, 27235), (58, 27340), (60, 27391), (64, 27463), (70, 27607), (73, 27646),

Gene: Amabiko_51 Start: 26737, Stop: 28029, Start Num: 5

Candidate Starts for Amabiko_51:

(Start: 5 @26737 has 27 MA's), (Start: 7 @26743 has 80 MA's), (12, 26797), (19, 26881), (23, 26938), (25, 26956), (26, 26965), (47, 27268), (48, 27271), (49, 27280), (58, 27385), (60, 27436), (64, 27508), (70, 27652), (73, 27691),

Gene: Anedea_47 Start: 26276, Stop: 27547, Start Num: 7

Candidate Starts for Anedea_47:

(Start: 7 @26276 has 80 MA's), (12, 26330), (14, 26351), (23, 26471), (44, 26786), (48, 26807), (49, 26816), (58, 26921), (64, 27032), (73, 27209),

Gene: Angela_46 Start: 25756, Stop: 27027, Start Num: 7

Candidate Starts for Angela_46:

(Start: 7 @25756 has 80 MA's), (12, 25810), (14, 25831), (23, 25951), (44, 26266), (48, 26287), (49, 26296), (58, 26401), (64, 26512), (73, 26689),

Gene: AngryGiraffe_50 Start: 26709, Stop: 27998, Start Num: 7

Candidate Starts for AngryGiraffe_50:

(Start: 5 @26703 has 27 MA's), (Start: 7 @26709 has 80 MA's), (12, 26763), (14, 26784), (19, 26847), (23, 26904), (26, 26931), (47, 27234), (48, 27237), (49, 27246), (58, 27351), (60, 27402), (61, 27411), (64, 27474), (73, 27657),

Gene: Annadreamy_26 Start: 15166, Stop: 16485, Start Num: 7

Candidate Starts for Annadreamy_26:

(Start: 7 @15166 has 80 MA's), (12, 15220), (23, 15361), (24, 15373), (26, 15388), (30, 15460), (31, 15466), (39, 15625), (43, 15658), (48, 15697), (49, 15706), (58, 15811), (65, 15967), (75, 16168), (82, 16381),

Gene: ArianaSWT_52 Start: 27368, Stop: 28651, Start Num: 7

Candidate Starts for ArianaSWT_52:

(Start: 7 @27368 has 80 MA's), (12, 27422), (14, 27443), (23, 27563), (31, 27668), (44, 27878), (48, 27899), (49, 27908), (58, 28013), (64, 28130), (73, 28313), (80, 28529),

Gene: Bartholomune_47 Start: 26053, Stop: 27330, Start Num: 7

Candidate Starts for Bartholomune_47:

(Start: 7 @26053 has 80 MA's), (10, 26101), (12, 26107), (14, 26128), (18, 26188), (23, 26248), (27, 26278), (48, 26584), (49, 26593), (51, 26599), (58, 26698), (64, 26815), (73, 26992),

Gene: Battuta_49 Start: 26711, Stop: 28003, Start Num: 5

Candidate Starts for Battuta_49:

(Start: 5 @26711 has 27 MA's), (Start: 7 @26717 has 80 MA's), (12, 26771), (19, 26855), (23, 26912), (26, 26939), (47, 27242), (48, 27245), (49, 27254), (58, 27359), (60, 27410), (64, 27482), (70, 27626), (73, 27665),

Gene: Belfort_28 Start: 15851, Stop: 17170, Start Num: 7

Candidate Starts for Belfort_28:

(Start: 7 @15851 has 80 MA's), (12, 15905), (23, 16046), (26, 16073), (36, 16295), (39, 16310), (48, 16382), (49, 16391), (58, 16496), (60, 16550), (65, 16649), (75, 16850),

Gene: Beuffert_25 Start: 14850, Stop: 16169, Start Num: 7

Candidate Starts for Beuffert_25:

(Start: 7 @14850 has 80 MA's), (12, 14904), (23, 15045), (26, 15072), (31, 15150), (39, 15309), (48, 15381), (49, 15390), (58, 15495), (65, 15651), (75, 15852), (82, 16065),

Gene: BillNye_22 Start: 15556, Stop: 16902, Start Num: 7

Candidate Starts for BillNye_22:

(Start: 7 @15556 has 80 MA's), (12, 15610), (23, 15751), (26, 15778), (42, 16039), (43, 16048), (48, 16087), (49, 16096), (58, 16201), (65, 16357), (68, 16477), (74, 16561), (75, 16585), (79, 16699),

Gene: Birchlyn_48 Start: 24594, Stop: 25886, Start Num: 5

Candidate Starts for Birchlyn_48:

(Start: 5 @24594 has 27 MA's), (Start: 7 @24600 has 80 MA's), (12, 24654), (19, 24738), (23, 24795), (25, 24813), (26, 24822), (47, 25125), (48, 25128), (49, 25137), (58, 25242), (60, 25293), (64, 25365), (70, 25509), (73, 25548),

Gene: BlueOtter_49 Start: 27406, Stop: 28689, Start Num: 7

Candidate Starts for BlueOtter_49:

(Start: 7 @27406 has 80 MA's), (12, 27460), (14, 27481), (23, 27601), (31, 27706), (44, 27916), (48, 27937), (49, 27946), (58, 28051), (64, 28168), (73, 28351), (80, 28567),

Gene: Blueeyedbeauty_28 Start: 15660, Stop: 16979, Start Num: 7

Candidate Starts for Blueeyedbeauty_28:

(Start: 7 @15660 has 80 MA's), (12, 15714), (23, 15855), (26, 15882), (31, 15960), (39, 16119), (48, 16191), (49, 16200), (58, 16305), (65, 16461), (75, 16662), (82, 16875),

Gene: Bmoc_47 Start: 26061, Stop: 27332, Start Num: 7

Candidate Starts for Bmoc_47:

(Start: 7 @26061 has 80 MA's), (10, 26109), (12, 26115), (14, 26136), (23, 26256), (44, 26571), (48, 26592), (49, 26601), (58, 26706), (64, 26817), (73, 26994),

Gene: BoomerJR_51 Start: 26592, Stop: 27887, Start Num: 5

Candidate Starts for BoomerJR_51:

(Start: 5 @26592 has 27 MA's), (Start: 7 @26598 has 80 MA's), (12, 26652), (14, 26673), (19, 26736), (23, 26793), (26, 26820), (47, 27123), (48, 27126), (49, 27135), (58, 27240), (60, 27291), (61, 27300), (64, 27363), (73, 27546),

Gene: Bordeaux_49 Start: 26866, Stop: 28158, Start Num: 5

Candidate Starts for Bordeaux_49:

(Start: 5 @26866 has 27 MA's), (Start: 7 @26872 has 80 MA's), (12, 26926), (19, 27010), (23, 27067), (25, 27085), (26, 27094), (47, 27397), (48, 27400), (49, 27409), (58, 27514), (60, 27565), (64, 27637), (70, 27781), (73, 27820),

Gene: Braelyn_48 Start: 26820, Stop: 28097, Start Num: 7

Candidate Starts for Braelyn_48:

(Start: 7 @26820 has 80 MA's), (10, 26868), (12, 26874), (14, 26895), (18, 26955), (23, 27015), (27, 27045), (48, 27351), (49, 27360), (51, 27366), (58, 27465), (64, 27582), (73, 27759),

Gene: Brizzy_50 Start: 26385, Stop: 27677, Start Num: 5

Candidate Starts for Brizzy_50:

(Start: 5 @26385 has 27 MA's), (Start: 7 @26391 has 80 MA's), (12, 26445), (19, 26529), (23, 26586), (25, 26604), (26, 26613), (47, 26916), (48, 26919), (49, 26928), (58, 27033), (60, 27084), (64, 27156), (73, 27339),

Gene: Cadmus_47 Start: 26397, Stop: 27680, Start Num: 7

Candidate Starts for Cadmus_47:

(Start: 7 @26397 has 80 MA's), (12, 26451), (14, 26472), (23, 26592), (25, 26610), (44, 26907), (48, 26928), (49, 26937), (58, 27042), (64, 27159), (73, 27342),

Gene: CeilingFan_50 Start: 26626, Stop: 27918, Start Num: 5

Candidate Starts for CeilingFan_50:

(Start: 5 @26626 has 27 MA's), (Start: 7 @26632 has 80 MA's), (12, 26686), (19, 26770), (23, 26827), (25, 26845), (26, 26854), (47, 27157), (48, 27160), (49, 27169), (58, 27274), (60, 27325), (64, 27397), (70, 27541), (73, 27580),

Gene: Chaewon_26 Start: 15337, Stop: 16680, Start Num: 7

Candidate Starts for Chaewon_26:

(Start: 7 @15337 has 80 MA's), (12, 15391), (23, 15532), (26, 15559), (46, 15859), (48, 15865), (49, 15874), (58, 15979), (65, 16135), (68, 16255), (74, 16339), (75, 16363), (79, 16477),

Gene: Circinus_24 Start: 15692, Stop: 17038, Start Num: 7

Candidate Starts for Circinus_24:

(Start: 7 @15692 has 80 MA's), (12, 15746), (23, 15887), (26, 15914), (42, 16175), (43, 16184), (48, 16223), (49, 16232), (58, 16337), (65, 16493), (68, 16613), (74, 16697), (75, 16721), (79, 16835),

Gene: Comrade_27 Start: 15466, Stop: 16785, Start Num: 7

Candidate Starts for Comrade_27:

(Start: 7 @15466 has 80 MA's), (12, 15520), (23, 15661), (26, 15688), (36, 15910), (39, 15925), (48, 15997), (49, 16006), (58, 16111), (60, 16165), (65, 16264), (75, 16465),

Gene: Coogler_49 Start: 27432, Stop: 28715, Start Num: 7

Candidate Starts for Coogler_49:

(Start: 7 @27432 has 80 MA's), (12, 27486), (14, 27507), (23, 27627), (31, 27732), (44, 27942), (48, 27963), (49, 27972), (58, 28077), (64, 28194), (73, 28377), (80, 28593),

Gene: Cross_49 Start: 27407, Stop: 28690, Start Num: 7

Candidate Starts for Cross_49:

(Start: 7 @27407 has 80 MA's), (12, 27461), (14, 27482), (23, 27602), (31, 27707), (44, 27917), (48, 27938), (49, 27947), (58, 28052), (64, 28169), (73, 28352), (80, 28568),

Gene: Cursive_47 Start: 26932, Stop: 28215, Start Num: 7

Candidate Starts for Cursive_47:

(Start: 7 @26932 has 80 MA's), (12, 26986), (14, 27007), (23, 27127), (31, 27232), (44, 27442), (48, 27463), (49, 27472), (58, 27577), (64, 27694), (73, 27877), (80, 28093),

Gene: Daisy123_55 Start: 26485, Stop: 27777, Start Num: 5

Candidate Starts for Daisy123_55:

(Start: 5 @26485 has 27 MA's), (Start: 7 @26491 has 80 MA's), (12, 26545), (19, 26629), (23, 26686), (25, 26704), (26, 26713), (47, 27016), (48, 27019), (49, 27028), (58, 27133), (60, 27184), (64, 27256), (70, 27400), (73, 27439),

Gene: Daubenski_50 Start: 27161, Stop: 28444, Start Num: 7

Candidate Starts for Daubenski_50:

(Start: 7 @27161 has 80 MA's), (10, 27209), (12, 27215), (14, 27236), (23, 27356), (25, 27374), (44, 27671), (48, 27692), (49, 27701), (58, 27806), (64, 27923), (73, 28106),

Gene: Davielle_46 Start: 26237, Stop: 27514, Start Num: 7

Candidate Starts for Davielle_46:

(Start: 7 @26237 has 80 MA's), (10, 26285), (12, 26291), (14, 26312), (18, 26372), (23, 26432), (27, 26462), (48, 26768), (49, 26777), (51, 26783), (58, 26882), (64, 26999), (73, 27176),

Gene: DeluluLabubu_28 Start: 15376, Stop: 16710, Start Num: 7

Candidate Starts for DeluluLabubu_28:

(Start: 7 @15376 has 80 MA's), (11, 15427), (12, 15430), (23, 15571), (26, 15598), (36, 15820), (37, 15823), (39, 15835), (48, 15907), (49, 15916), (50, 15919), (58, 16021), (60, 16075), (65, 16174), (75, 16393),

Gene: Dorin_45 Start: 26479, Stop: 27768, Start Num: 6

Candidate Starts for Dorin_45:

(Start: 6 @26479 has 5 MA's), (9, 26524), (20, 26626), (21, 26671), (26, 26710), (33, 26866), (38, 26941), (42, 26971), (45, 27001), (48, 27016), (58, 27130), (63, 27232), (67, 27397),

Gene: EGole_50 Start: 28311, Stop: 29594, Start Num: 7

Candidate Starts for EGole_50:

(Start: 7 @28311 has 80 MA's), (12, 28365), (14, 28386), (23, 28506), (31, 28611), (44, 28821), (48, 28842), (49, 28851), (58, 28956), (64, 29073), (73, 29256), (80, 29472),

Gene: Eliot67_46 Start: 26050, Stop: 27327, Start Num: 7

Candidate Starts for Eliot67_46:

(Start: 7 @26050 has 80 MA's), (10, 26098), (12, 26104), (14, 26125), (18, 26185), (23, 26245), (27, 26275), (48, 26581), (49, 26590), (51, 26596), (58, 26695), (64, 26812), (73, 26989),

Gene: Elmer_53 Start: 27780, Stop: 29066, Start Num: 7

Candidate Starts for Elmer_53:

(Start: 5 @27774 has 27 MA's), (Start: 7 @27780 has 80 MA's), (12, 27834), (14, 27855), (23, 27975), (26, 28002), (33, 28158), (48, 28308), (49, 28317), (58, 28422), (60, 28473), (61, 28482), (64, 28545), (73, 28728),

Gene: Emma1919_30 Start: 16071, Stop: 17405, Start Num: 7

Candidate Starts for Emma1919_30:

(Start: 7 @16071 has 80 MA's), (11, 16122), (12, 16125), (23, 16266), (26, 16293), (36, 16515), (39, 16530), (48, 16602), (49, 16611), (58, 16716), (60, 16770), (65, 16869), (75, 17088),

Gene: Enygma_48 Start: 26693, Stop: 27979, Start Num: 7

Candidate Starts for Enygma_48:

(Start: 5 @26687 has 27 MA's), (Start: 7 @26693 has 80 MA's), (12, 26747), (14, 26768), (19, 26831), (23, 26888), (25, 26906), (26, 26915), (47, 27218), (48, 27221), (49, 27230), (58, 27335), (60, 27386), (64, 27458), (73, 27641),

Gene: Evy_50 Start: 27415, Stop: 28692, Start Num: 7

Candidate Starts for Evy_50:

(Start: 7 @27415 has 80 MA's), (12, 27469), (14, 27490), (23, 27610), (44, 27925), (48, 27946), (49, 27955), (58, 28060), (64, 28177), (73, 28354),

Gene: Faust_26 Start: 15321, Stop: 16640, Start Num: 7

Candidate Starts for Faust_26:

(Start: 7 @15321 has 80 MA's), (11, 15372), (12, 15375), (23, 15516), (26, 15543), (39, 15780), (48, 15852), (49, 15861), (58, 15966), (65, 16122), (75, 16320), (82, 16533),

Gene: Forrest_30 Start: 16194, Stop: 17528, Start Num: 7

Candidate Starts for Forrest_30:

(Start: 7 @16194 has 80 MA's), (11, 16245), (12, 16248), (23, 16389), (26, 16416), (36, 16638), (39, 16653), (48, 16725), (49, 16734), (50, 16737), (58, 16839), (60, 16893), (65, 16992), (75, 17211),

Gene: Francesca_44 Start: 26611, Stop: 27900, Start Num: 6

Candidate Starts for Francesca_44:

(Start: 6 @26611 has 5 MA's), (9, 26656), (20, 26758), (21, 26803), (26, 26842), (33, 26998), (38, 27073), (42, 27103), (45, 27133), (48, 27148), (58, 27262), (63, 27364), (67, 27529),

Gene: Francob_25 Start: 14465, Stop: 15784, Start Num: 7

Candidate Starts for Francob_25:

(Start: 7 @14465 has 80 MA's), (10, 14513), (11, 14516), (12, 14519), (23, 14660), (26, 14687), (37, 14912), (39, 14924), (48, 14996), (49, 15005), (58, 15110), (60, 15164), (65, 15263), (75, 15467),

Gene: FreddyDRoo_46 Start: 26050, Stop: 27327, Start Num: 7

Candidate Starts for FreddyDRoo_46:

(Start: 7 @26050 has 80 MA's), (10, 26098), (12, 26104), (14, 26125), (18, 26185), (23, 26245), (27, 26275), (48, 26581), (49, 26590), (51, 26596), (58, 26695), (64, 26812), (73, 26989),

Gene: Genie2_51 Start: 26706, Stop: 28001, Start Num: 5

Candidate Starts for Genie2_51:

(Start: 5 @26706 has 27 MA's), (Start: 7 @26712 has 80 MA's), (12, 26766), (14, 26787), (19, 26850), (23, 26907), (26, 26934), (47, 27237), (48, 27240), (49, 27249), (58, 27354), (60, 27405), (61, 27414), (64, 27477), (73, 27660),

Gene: Gibbi_55 Start: 26855, Stop: 28141, Start Num: 7

Candidate Starts for Gibbi_55:

(Start: 5 @26849 has 27 MA's), (Start: 7 @26855 has 80 MA's), (12, 26909), (19, 26993), (23, 27050), (25, 27068), (26, 27077), (47, 27380), (48, 27383), (49, 27392), (58, 27497), (60, 27548), (64, 27620), (70, 27764), (73, 27803),

Gene: Gilson_30 Start: 16024, Stop: 17358, Start Num: 7

Candidate Starts for Gilson_30:

(Start: 7 @16024 has 80 MA's), (11, 16075), (12, 16078), (23, 16219), (26, 16246), (36, 16468), (39, 16483), (48, 16555), (49, 16564), (58, 16669), (60, 16723), (65, 16822), (75, 17041),

Gene: Grayson_78 Start: 38978, Stop: 40285, Start Num: 4

Candidate Starts for Grayson_78:

(Start: 4 @38978 has 2 MA's), (Start: 6 @38987 has 5 MA's), (12, 39044), (17, 39098), (25, 39206), (29, 39281), (32, 39323), (35, 39434), (41, 39467), (42, 39476), (45, 39506), (58, 39626), (59, 39635), (63, 39719), (83, 40253), (84, 40265),

Gene: HangryHippo_49 Start: 27406, Stop: 28689, Start Num: 7

Candidate Starts for HangryHippo_49:

(Start: 7 @27406 has 80 MA's), (12, 27460), (14, 27481), (23, 27601), (31, 27706), (44, 27916), (48, 27937), (49, 27946), (58, 28051), (64, 28168), (73, 28351), (80, 28567),

Gene: IchabodCrane_48 Start: 26438, Stop: 27730, Start Num: 5

Candidate Starts for IchabodCrane_48:

(Start: 5 @26438 has 27 MA's), (Start: 7 @26444 has 80 MA's), (12, 26498), (19, 26582), (23, 26639), (25, 26657), (26, 26666), (47, 26969), (48, 26972), (49, 26981), (58, 27086), (60, 27137), (64, 27209), (73, 27392),

Gene: Jada_28 Start: 15376, Stop: 16710, Start Num: 7

Candidate Starts for Jada_28:

(Start: 7 @15376 has 80 MA's), (11, 15427), (12, 15430), (23, 15571), (26, 15598), (36, 15820), (39, 15835), (48, 15907), (49, 15916), (50, 15919), (58, 16021), (60, 16075), (65, 16174), (75, 16393),

Gene: Jay2Jay_54 Start: 28223, Stop: 29500, Start Num: 7

Candidate Starts for Jay2Jay_54:

(Start: 7 @28223 has 80 MA's), (12, 28277), (14, 28298), (23, 28418), (44, 28733), (48, 28754), (49, 28763), (58, 28868), (64, 28985), (73, 29162),

Gene: JimJam_51 Start: 26812, Stop: 28104, Start Num: 5

Candidate Starts for JimJam_51:

(Start: 5 @26812 has 27 MA's), (Start: 7 @26818 has 80 MA's), (12, 26872), (19, 26956), (23, 27013), (25, 27031), (26, 27040), (47, 27343), (48, 27346), (49, 27355), (58, 27460), (60, 27511), (64, 27583), (70, 27727), (73, 27766),

Gene: Jollison_50 Start: 26700, Stop: 27986, Start Num: 7

Candidate Starts for Jollison_50:

(Start: 5 @26694 has 27 MA's), (Start: 7 @26700 has 80 MA's), (12, 26754), (19, 26838), (23, 26895), (25, 26913), (26, 26922), (47, 27225), (48, 27228), (49, 27237), (58, 27342), (60, 27393), (64, 27465), (70, 27609), (73, 27648),

Gene: Karimac_50 Start: 26849, Stop: 28135, Start Num: 7

Candidate Starts for Karimac_50:

(Start: 5 @26843 has 27 MA's), (Start: 7 @26849 has 80 MA's), (12, 26903), (19, 26987), (23, 27044), (25, 27062), (26, 27071), (47, 27374), (48, 27377), (49, 27386), (58, 27491), (60, 27542), (64, 27614), (73, 27797),

Gene: Karp_26 Start: 15067, Stop: 16386, Start Num: 7

Candidate Starts for Karp_26:

(Start: 7 @15067 has 80 MA's), (12, 15121), (23, 15262), (26, 15289), (36, 15511), (39, 15526), (48, 15598), (49, 15607), (58, 15712), (60, 15766), (65, 15865), (75, 16066),

Gene: Kenrey_30 Start: 16073, Stop: 17407, Start Num: 7

Candidate Starts for Kenrey_30:

(Start: 7 @16073 has 80 MA's), (11, 16124), (12, 16127), (23, 16268), (26, 16295), (36, 16517), (37, 16520), (39, 16532), (48, 16604), (49, 16613), (50, 16616), (58, 16718), (60, 16772), (65, 16871), (75, 17090),

Gene: KentuckyRacer_51 Start: 26627, Stop: 27919, Start Num: 5

Candidate Starts for KentuckyRacer_51:

(Start: 5 @26627 has 27 MA's), (Start: 7 @26633 has 80 MA's), (12, 26687), (19, 26771), (23, 26828), (25, 26846), (26, 26855), (47, 27158), (48, 27161), (49, 27170), (58, 27275), (60, 27326), (64, 27398), (70, 27542), (73, 27581),

Gene: Larnav_49 Start: 27391, Stop: 28674, Start Num: 7

Candidate Starts for Larnav_49:

(Start: 7 @27391 has 80 MA's), (12, 27445), (14, 27466), (15, 27481), (23, 27586), (31, 27691), (44, 27901), (48, 27922), (49, 27931), (58, 28036), (64, 28153), (73, 28336), (80, 28552),

Gene: Leo04_50 Start: 27906, Stop: 29189, Start Num: 7

Candidate Starts for Leo04_50:

(Start: 7 @27906 has 80 MA's), (12, 27960), (14, 27981), (23, 28101), (31, 28206), (44, 28416), (48, 28437), (49, 28446), (58, 28551), (64, 28668), (73, 28851), (80, 29067),

Gene: Liandry_48 Start: 26757, Stop: 28034, Start Num: 7

Candidate Starts for Liandry_48:

(Start: 7 @26757 has 80 MA's), (10, 26805), (12, 26811), (14, 26832), (18, 26892), (23, 26952), (27, 26982), (48, 27288), (49, 27297), (51, 27303), (58, 27402), (64, 27519), (73, 27696),

Gene: LilMartin_46 Start: 25704, Stop: 26975, Start Num: 7

Candidate Starts for LilMartin_46:

(Start: 7 @25704 has 80 MA's), (12, 25758), (14, 25779), (23, 25899), (44, 26214), (48, 26235), (49, 26244), (58, 26349), (64, 26460), (73, 26637),

Gene: LilSaint_48 Start: 25948, Stop: 27219, Start Num: 7

Candidate Starts for LilSaint_48:

(Start: 7 @25948 has 80 MA's), (12, 26002), (14, 26023), (23, 26143), (48, 26479), (49, 26488), (58, 26593), (64, 26704), (73, 26881),

Gene: Limpid_26 Start: 15165, Stop: 16484, Start Num: 7

Candidate Starts for Limpid_26:

(Start: 7 @15165 has 80 MA's), (12, 15219), (23, 15360), (24, 15372), (26, 15387), (30, 15459), (31, 15465), (39, 15624), (43, 15657), (48, 15696), (49, 15705), (58, 15810), (65, 15966), (75, 16167), (82, 16380),

Gene: LukeCage_50 Start: 26591, Stop: 27883, Start Num: 5

Candidate Starts for LukeCage_50:

(Start: 5 @26591 has 27 MA's), (Start: 7 @26597 has 80 MA's), (12, 26651), (14, 26672), (19, 26735), (23, 26792), (25, 26810), (26, 26819), (47, 27122), (48, 27125), (49, 27134), (56, 27224), (58, 27239), (60, 27290), (64, 27362), (73, 27545),

Gene: Lululemon_48 Start: 26787, Stop: 28070, Start Num: 7

Candidate Starts for Lululemon_48:

(Start: 7 @26787 has 80 MA's), (12, 26841), (14, 26862), (23, 26982), (31, 27087), (44, 27297), (48, 27318), (49, 27327), (58, 27432), (64, 27549), (73, 27732), (80, 27948),

Gene: Marsus_47 Start: 25976, Stop: 27247, Start Num: 7

Candidate Starts for Marsus_47:

(Start: 7 @25976 has 80 MA's), (12, 26030), (14, 26051), (18, 26111), (23, 26171), (44, 26486), (48, 26507), (49, 26516), (58, 26621), (64, 26732), (73, 26909),

Gene: Maupel_30 Start: 16024, Stop: 17358, Start Num: 7

Candidate Starts for Maupel_30:

(Start: 7 @16024 has 80 MA's), (11, 16075), (12, 16078), (23, 16219), (26, 16246), (36, 16468), (39, 16483), (48, 16555), (49, 16564), (58, 16669), (60, 16723), (65, 16822), (75, 17041),

Gene: MeganTheeKilla_28 Start: 15385, Stop: 16719, Start Num: 7

Candidate Starts for MeganTheeKilla_28:

(Start: 7 @15385 has 80 MA's), (11, 15436), (12, 15439), (23, 15580), (26, 15607), (36, 15829), (39, 15844), (48, 15916), (49, 15925), (58, 16030), (60, 16084), (65, 16183), (75, 16402),

Gene: Mildred21_47 Start: 25889, Stop: 27160, Start Num: 7

Candidate Starts for Mildred21_47:

(Start: 7 @25889 has 80 MA's), (12, 25943), (18, 26024), (23, 26084), (25, 26102), (40, 26351), (44, 26399), (48, 26420), (49, 26429), (58, 26534), (64, 26645), (73, 26822),

Gene: MindFlayer_49 Start: 26345, Stop: 27637, Start Num: 5

Candidate Starts for MindFlayer_49:

(Start: 5 @26345 has 27 MA's), (Start: 7 @26351 has 80 MA's), (12, 26405), (19, 26489), (23, 26546), (25, 26564), (26, 26573), (47, 26876), (48, 26879), (49, 26888), (58, 26993), (60, 27044), (64, 27116), (70, 27260), (73, 27299),

Gene: Moab_27 Start: 15410, Stop: 16726, Start Num: 7

Candidate Starts for Moab_27:

(Start: 7 @15410 has 80 MA's), (12, 15464), (23, 15605), (26, 15632), (30, 15704), (36, 15854), (39, 15869), (43, 15902), (48, 15941), (49, 15950), (58, 16055), (60, 16109), (65, 16208), (75, 16409),

Gene: Mugiwara_50 Start: 27090, Stop: 28382, Start Num: 5

Candidate Starts for Mugiwara_50:

(Start: 5 @27090 has 27 MA's), (Start: 7 @27096 has 80 MA's), (12, 27150), (14, 27171), (19, 27234), (23, 27291), (25, 27309), (26, 27318), (33, 27474), (47, 27621), (48, 27624), (49, 27633), (58, 27738), (60, 27789), (61, 27798), (64, 27861), (73, 28044), (80, 28260),

Gene: MulchMansion_46 Start: 25704, Stop: 26975, Start Num: 7

Candidate Starts for MulchMansion_46:

(Start: 7 @25704 has 80 MA's), (12, 25758), (14, 25779), (23, 25899), (44, 26214), (48, 26235), (49, 26244), (58, 26349), (64, 26460), (73, 26637),

Gene: Muntaha_22 Start: 14981, Stop: 16318, Start Num: 7

Candidate Starts for Muntaha_22:

(Start: 7 @14981 has 80 MA's), (12, 15035), (23, 15176), (26, 15203), (42, 15464), (43, 15473), (48, 15512), (49, 15521), (58, 15626), (65, 15767), (66, 15836), (75, 15998), (79, 16112), (82, 16211),

Gene: Navo_47 Start: 26715, Stop: 27992, Start Num: 7

Candidate Starts for Navo_47:

(Start: 7 @26715 has 80 MA's), (10, 26763), (12, 26769), (14, 26790), (18, 26850), (23, 26910), (27, 26940), (48, 27246), (49, 27255), (51, 27261), (58, 27360), (64, 27477), (73, 27654),

Gene: NiceHouse_59 Start: 32566, Stop: 33672, Start Num: 6

Candidate Starts for NiceHouse_59:

(1, 32527), (2, 32536), (Start: 6 @32566 has 5 MA's), (8, 32575), (21, 32758), (22, 32764), (23, 32767), (34, 33001), (36, 33019), (39, 33034), (42, 33058), (52, 33118), (53, 33124), (57, 33181), (69, 33457), (72, 33499), (76, 33562),

Gene: NootNoot_45 Start: 25671, Stop: 26948, Start Num: 7

Candidate Starts for NootNoot_45:

(Start: 7 @25671 has 80 MA's), (10, 25719), (12, 25725), (14, 25746), (18, 25806), (23, 25866), (27, 25896), (48, 26202), (49, 26211), (51, 26217), (58, 26316), (64, 26433), (73, 26610),

Gene: Nova53_42 Start: 26629, Stop: 27903, Start Num: 6

Candidate Starts for Nova53_42:

(Start: 6 @26629 has 5 MA's), (9, 26674), (16, 26728), (17, 26743), (21, 26821), (26, 26860), (33, 27016), (42, 27121), (45, 27151), (48, 27166), (58, 27280), (63, 27382), (71, 27577),

Gene: PacManQ_48 Start: 26787, Stop: 28070, Start Num: 7

Candidate Starts for PacManQ_48:

(Start: 7 @26787 has 80 MA's), (12, 26841), (14, 26862), (23, 26982), (31, 27087), (44, 27297), (48, 27318), (49, 27327), (58, 27432), (64, 27549), (73, 27732), (80, 27948),

Gene: Paradiddles_45 Start: 25932, Stop: 27209, Start Num: 7

Candidate Starts for Paradiddles_45:

(Start: 7 @25932 has 80 MA's), (10, 25980), (12, 25986), (14, 26007), (18, 26067), (23, 26127), (27, 26157), (48, 26463), (49, 26472), (51, 26478), (58, 26577), (64, 26694), (73, 26871),

Gene: Patelgo_27 Start: 15024, Stop: 16340, Start Num: 7

Candidate Starts for Patelgo_27:

(Start: 7 @15024 has 80 MA's), (12, 15078), (23, 15219), (26, 15246), (36, 15468), (39, 15483), (43, 15516), (48, 15555), (49, 15564), (58, 15669), (60, 15723), (65, 15822), (75, 16023),

Gene: Peebs_48 Start: 27144, Stop: 28427, Start Num: 7

Candidate Starts for Peebs_48:

(Start: 7 @27144 has 80 MA's), (12, 27198), (14, 27219), (23, 27339), (31, 27444), (44, 27654), (48, 27675), (49, 27684), (58, 27789), (64, 27906), (73, 28089), (80, 28305),

Gene: Pepperwood_49 Start: 27277, Stop: 28560, Start Num: 7

Candidate Starts for Pepperwood_49:

(Start: 7 @27277 has 80 MA's), (12, 27331), (14, 27352), (23, 27472), (31, 27577), (44, 27787), (48, 27808), (49, 27817), (58, 27922), (64, 28039), (73, 28222), (80, 28438),

Gene: Peregrin_76 Start: 37759, Stop: 39066, Start Num: 4

Candidate Starts for Peregrin_76:

(Start: 4 @37759 has 2 MA's), (Start: 6 @37768 has 5 MA's), (12, 37825), (17, 37879), (25, 37987), (29, 38062), (32, 38104), (35, 38215), (41, 38248), (42, 38257), (45, 38287), (58, 38407), (59, 38416), (63, 38500), (83, 39034), (84, 39046),

Gene: Persimmon_45 Start: 25646, Stop: 26923, Start Num: 7

Candidate Starts for Persimmon_45:

(Start: 7 @25646 has 80 MA's), (10, 25694), (12, 25700), (14, 25721), (18, 25781), (23, 25841), (27, 25871), (48, 26177), (49, 26186), (51, 26192), (58, 26291), (64, 26408), (73, 26585),

Gene: Phredrick_28 Start: 15279, Stop: 16613, Start Num: 7

Candidate Starts for Phredrick_28:

(Start: 7 @15279 has 80 MA's), (11, 15330), (12, 15333), (23, 15474), (26, 15501), (36, 15723), (37, 15726), (39, 15738), (48, 15810), (49, 15819), (50, 15822), (58, 15924), (60, 15978), (65, 16077), (75, 16296),

Gene: PinkiePie_47 Start: 26757, Stop: 28034, Start Num: 7

Candidate Starts for PinkiePie_47:

(Start: 7 @26757 has 80 MA's), (10, 26805), (12, 26811), (14, 26832), (18, 26892), (23, 26952), (27, 26982), (48, 27288), (49, 27297), (51, 27303), (58, 27402), (64, 27519), (73, 27696),

Gene: PumpkinSpice_50 Start: 26737, Stop: 28029, Start Num: 5

Candidate Starts for PumpkinSpice_50:

(Start: 5 @26737 has 27 MA's), (Start: 7 @26743 has 80 MA's), (12, 26797), (19, 26881), (23, 26938), (25, 26956), (26, 26965), (47, 27268), (48, 27271), (49, 27280), (58, 27385), (60, 27436), (64, 27508), (70, 27652), (73, 27691),

Gene: PynkPanther_54 Start: 26785, Stop: 28062, Start Num: 7

Candidate Starts for PynkPanther_54:

(Start: 7 @26785 has 80 MA's), (10, 26833), (12, 26839), (14, 26860), (18, 26920), (23, 26980), (27, 27010), (48, 27316), (49, 27325), (51, 27331), (58, 27430), (64, 27547), (73, 27724),

Gene: Quaran19_51 Start: 26728, Stop: 28020, Start Num: 5

Candidate Starts for Quaran19_51:

(Start: 5 @26728 has 27 MA's), (Start: 7 @26734 has 80 MA's), (12, 26788), (19, 26872), (23, 26929), (25, 26947), (26, 26956), (47, 27259), (48, 27262), (49, 27271), (58, 27376), (60, 27427), (64, 27499), (70, 27643), (73, 27682),

Gene: Rikishi_51 Start: 26643, Stop: 27935, Start Num: 5

Candidate Starts for Rikishi_51:

(Start: 5 @26643 has 27 MA's), (Start: 7 @26649 has 80 MA's), (12, 26703), (19, 26787), (23, 26844), (25, 26862), (26, 26871), (47, 27174), (48, 27177), (49, 27186), (58, 27291), (60, 27342), (64, 27414), (70, 27558), (73, 27597),

Gene: Riptide_46 Start: 25497, Stop: 26768, Start Num: 7

Candidate Starts for Riptide_46:

(Start: 7 @25497 has 80 MA's), (12, 25551), (14, 25572), (23, 25692), (44, 26007), (48, 26028), (49, 26037), (58, 26142), (64, 26253), (73, 26430),

Gene: SaltySpittoon_51 Start: 26737, Stop: 28029, Start Num: 5

Candidate Starts for SaltySpittoon_51:

(Start: 5 @26737 has 27 MA's), (Start: 7 @26743 has 80 MA's), (12, 26797), (19, 26881), (23, 26938), (25, 26956), (26, 26965), (47, 27268), (48, 27271), (49, 27280), (58, 27385), (60, 27436), (64, 27508), (70, 27652), (73, 27691),

Gene: Samisti12_49 Start: 28580, Stop: 29863, Start Num: 7

Candidate Starts for Samisti12_49:

(Start: 7 @28580 has 80 MA's), (12, 28634), (14, 28655), (23, 28775), (31, 28880), (44, 29090), (48, 29111), (49, 29120), (58, 29225), (64, 29342), (73, 29525), (80, 29741),

Gene: Scheme_50 Start: 27991, Stop: 29274, Start Num: 7

Candidate Starts for Scheme_50:

(Start: 7 @27991 has 80 MA's), (12, 28045), (14, 28066), (23, 28186), (31, 28291), (44, 28501), (48, 28522), (49, 28531), (58, 28636), (64, 28753), (73, 28936), (80, 29152),

Gene: SeresaTree_26 Start: 14711, Stop: 16030, Start Num: 7

Candidate Starts for SeresaTree_26:

(Start: 7 @14711 has 80 MA's), (11, 14762), (12, 14765), (23, 14906), (26, 14933), (39, 15170), (48, 15242), (49, 15251), (58, 15356), (65, 15512), (75, 15710), (82, 15923),

Gene: Sham_24 Start: 15770, Stop: 17089, Start Num: 7

Candidate Starts for Sham_24:

(Start: 7 @15770 has 80 MA's), (12, 15824), (23, 15965), (26, 15992), (31, 16070), (39, 16229), (47, 16298), (48, 16301), (49, 16310), (58, 16415), (65, 16571), (75, 16769),

Gene: Shuckle_47 Start: 27597, Stop: 28880, Start Num: 7

Candidate Starts for Shuckle_47:

(Start: 7 @27597 has 80 MA's), (12, 27651), (14, 27672), (23, 27792), (31, 27897), (44, 28107), (48, 28128), (49, 28137), (58, 28242), (64, 28359), (73, 28542), (80, 28758),

Gene: Sollertia_51 Start: 26706, Stop: 28001, Start Num: 5

Candidate Starts for Sollertia_51:

(Start: 5 @26706 has 27 MA's), (Start: 7 @26712 has 80 MA's), (12, 26766), (14, 26787), (19, 26850), (23, 26907), (26, 26934), (47, 27237), (48, 27240), (49, 27249), (58, 27354), (60, 27405), (61, 27414), (64, 27477), (73, 27660),

Gene: SparkleGoddess_27 Start: 15468, Stop: 16787, Start Num: 7

Candidate Starts for SparkleGoddess_27:

(Start: 7 @15468 has 80 MA's), (12, 15522), (23, 15663), (26, 15690), (36, 15912), (39, 15927), (48, 15999), (49, 16008), (58, 16113), (60, 16167), (65, 16266), (75, 16467),

Gene: Spelly_51 Start: 26692, Stop: 27984, Start Num: 5

Candidate Starts for Spelly_51:

(Start: 5 @26692 has 27 MA's), (Start: 7 @26698 has 80 MA's), (12, 26752), (19, 26836), (23, 26893), (25, 26911), (26, 26920), (47, 27223), (48, 27226), (49, 27235), (58, 27340), (60, 27391), (64, 27463), (70, 27607), (73, 27646),

Gene: Spilled_52 Start: 26809, Stop: 28101, Start Num: 5

Candidate Starts for Spilled_52:

(Start: 5 @26809 has 27 MA's), (Start: 7 @26815 has 80 MA's), (12, 26869), (19, 26953), (23, 27010), (25, 27028), (26, 27037), (47, 27340), (48, 27343), (49, 27352), (58, 27457), (60, 27508), (64, 27580), (73, 27763),

Gene: Squillium_48 Start: 26758, Stop: 28035, Start Num: 7

Candidate Starts for Squillium_48:

(Start: 7 @26758 has 80 MA's), (10, 26806), (12, 26812), (14, 26833), (18, 26893), (23, 26953), (27, 26983), (48, 27289), (49, 27298), (51, 27304), (58, 27403), (64, 27520), (73, 27697),

Gene: Stanimal_51 Start: 26595, Stop: 27890, Start Num: 5

Candidate Starts for Stanimal_51:

(Start: 5 @26595 has 27 MA's), (Start: 7 @26601 has 80 MA's), (12, 26655), (14, 26676), (19, 26739), (23, 26796), (26, 26823), (47, 27126), (48, 27129), (49, 27138), (58, 27243), (60, 27294), (61, 27303), (64, 27366), (73, 27549),

Gene: StarPlatinum_51 Start: 27233, Stop: 28525, Start Num: 5

Candidate Starts for StarPlatinum_51:

(Start: 5 @27233 has 27 MA's), (Start: 7 @27239 has 80 MA's), (12, 27293), (14, 27314), (19, 27377), (23, 27434), (25, 27452), (26, 27461), (47, 27764), (48, 27767), (49, 27776), (58, 27881), (60, 27932), (64, 28004), (73, 28187),

Gene: Starbow_49 Start: 26719, Stop: 28005, Start Num: 7

Candidate Starts for Starbow_49:

(Start: 5 @26713 has 27 MA's), (Start: 7 @26719 has 80 MA's), (12, 26773), (19, 26857), (23, 26914), (26, 26941), (47, 27244), (48, 27247), (49, 27256), (58, 27361), (60, 27412), (64, 27484), (70, 27628), (73, 27667),

Gene: Stigma_27 Start: 15469, Stop: 16788, Start Num: 7

Candidate Starts for Stigma_27:

(Start: 7 @15469 has 80 MA's), (12, 15523), (23, 15664), (26, 15691), (36, 15913), (39, 15928), (48, 16000), (49, 16009), (58, 16114), (60, 16168), (65, 16267), (75, 16468),

Gene: Sushi23_49 Start: 27502, Stop: 28785, Start Num: 7

Candidate Starts for Sushi23_49:

(Start: 7 @27502 has 80 MA's), (12, 27556), (14, 27577), (23, 27697), (31, 27802), (44, 28012), (48, 28033), (49, 28042), (58, 28147), (64, 28264), (73, 28447), (80, 28663),

Gene: Targaryen_50 Start: 28272, Stop: 29549, Start Num: 7

Candidate Starts for Targaryen_50:

(Start: 7 @28272 has 80 MA's), (12, 28326), (14, 28347), (23, 28467), (44, 28782), (48, 28803), (49, 28812), (58, 28917), (64, 29034), (73, 29211),

Gene: Teutsch_49 Start: 27771, Stop: 29054, Start Num: 7

Candidate Starts for Teutsch_49:

(Start: 7 @27771 has 80 MA's), (12, 27825), (14, 27846), (23, 27966), (31, 28071), (44, 28281), (48, 28302), (49, 28311), (58, 28416), (64, 28533), (73, 28716), (80, 28932),

Gene: TomSawyer_49 Start: 26331, Stop: 27623, Start Num: 5

Candidate Starts for TomSawyer_49:

(Start: 5 @26331 has 27 MA's), (Start: 7 @26337 has 80 MA's), (12, 26391), (19, 26475), (23, 26532), (25, 26550), (26, 26559), (47, 26862), (48, 26865), (49, 26874), (58, 26979), (60, 27030), (64, 27102), (70, 27246), (73, 27285),

Gene: Tomas_53 Start: 29052, Stop: 30332, Start Num: 5

Candidate Starts for Tomas_53:

(Start: 5 @29052 has 27 MA's), (Start: 7 @29058 has 80 MA's), (10, 29106), (12, 29112), (23, 29253), (40, 29520), (48, 29589), (49, 29598), (54, 29676), (58, 29703), (60, 29751), (64, 29823), (73, 29994),

Gene: Tribute_47 Start: 26971, Stop: 28254, Start Num: 7

Candidate Starts for Tribute_47:

(Start: 7 @26971 has 80 MA's), (12, 27025), (14, 27046), (23, 27166), (31, 27271), (44, 27481), (48, 27502), (49, 27511), (58, 27616), (64, 27733), (73, 27916), (80, 28132),

Gene: Trina_71 Start: 36327, Stop: 37640, Start Num: 3

Candidate Starts for Trina_71:

(Start: 3 @36327 has 1 MA's), (Start: 6 @36339 has 5 MA's), (13, 36402), (22, 36537), (28, 36615), (31, 36648), (32, 36678), (48, 36873), (55, 36954), (58, 36978), (59, 36987), (62, 37059), (63, 37080), (78, 37431), (82, 37542),

Gene: TunaTartare_25 Start: 16060, Stop: 17379, Start Num: 7

Candidate Starts for TunaTartare_25:

(Start: 7 @16060 has 80 MA's), (12, 16114), (23, 16255), (26, 16282), (31, 16360), (39, 16519), (48, 16591), (49, 16600), (58, 16705), (65, 16861), (75, 17059),

Gene: Wakanda_22 Start: 14907, Stop: 16244, Start Num: 7

Candidate Starts for Wakanda_22:

(Start: 7 @14907 has 80 MA's), (12, 14961), (23, 15102), (25, 15120), (26, 15129), (42, 15390), (43, 15399), (48, 15438), (49, 15447), (58, 15552), (65, 15693), (66, 15762), (75, 15924), (79, 16038), (82, 16137),

Gene: Warpy_53 Start: 27736, Stop: 29013, Start Num: 7

Candidate Starts for Warpy_53:

(Start: 7 @27736 has 80 MA's), (12, 27790), (14, 27811), (18, 27871), (23, 27931), (44, 28246), (48, 28267), (49, 28276), (58, 28381), (64, 28498), (73, 28675),

Gene: WashU_52 Start: 27280, Stop: 28563, Start Num: 7

Candidate Starts for WashU_52:

(Start: 7 @27280 has 80 MA's), (12, 27334), (14, 27355), (23, 27475), (31, 27580), (44, 27790), (48, 27811), (49, 27820), (58, 27925), (64, 28042), (73, 28225), (80, 28441),

Gene: Watermoore_49 Start: 27978, Stop: 29261, Start Num: 7

Candidate Starts for Watermoore_49:

(Start: 7 @27978 has 80 MA's), (12, 28032), (14, 28053), (23, 28173), (31, 28278), (44, 28488), (48, 28509), (49, 28518), (58, 28623), (64, 28740), (73, 28923), (80, 29139),

Gene: Weasels2_78 Start: 38617, Stop: 39924, Start Num: 6

Candidate Starts for Weasels2_78:

(Start: 6 @38617 has 5 MA's), (17, 38728), (30, 38917), (32, 38953), (35, 39064), (41, 39097), (58, 39256), (59, 39265), (63, 39349), (77, 39697), (81, 39826),

Gene: Westy_27 Start: 15469, Stop: 16788, Start Num: 7

Candidate Starts for Westy_27:

(Start: 7 @15469 has 80 MA's), (12, 15523), (23, 15664), (26, 15691), (36, 15913), (39, 15928), (48, 16000), (49, 16009), (58, 16114), (60, 16168), (65, 16267), (75, 16468),

Gene: WhereRU_46 Start: 26237, Stop: 27514, Start Num: 7

Candidate Starts for WhereRU_46:

(Start: 7 @26237 has 80 MA's), (10, 26285), (12, 26291), (14, 26312), (18, 26372), (23, 26432), (27, 26462), (48, 26768), (49, 26777), (51, 26783), (58, 26882), (64, 26999), (73, 27176),

Gene: Wipeout_49 Start: 27082, Stop: 28374, Start Num: 5

Candidate Starts for Wipeout_49:

(Start: 5 @27082 has 27 MA's), (Start: 7 @27088 has 80 MA's), (12, 27142), (19, 27226), (23, 27283), (25, 27301), (26, 27310), (47, 27613), (48, 27616), (49, 27625), (58, 27730), (60, 27781), (64, 27853), (70, 27997), (73, 28036),

Gene: Wofford_50 Start: 27737, Stop: 29029, Start Num: 5

Candidate Starts for Wofford_50:

(Start: 5 @27737 has 27 MA's), (Start: 7 @27743 has 80 MA's), (12, 27797), (14, 27818), (23, 27938), (26, 27965), (33, 28121), (48, 28271), (49, 28280), (56, 28370), (58, 28385), (60, 28436), (61, 28445), (64, 28508), (73, 28691),

Gene: Yaboi_51 Start: 26689, Stop: 27978, Start Num: 7

Candidate Starts for Yaboi_51:

(Start: 5 @26683 has 27 MA's), (Start: 7 @26689 has 80 MA's), (12, 26743), (14, 26764), (19, 26827), (23, 26884), (26, 26911), (47, 27214), (48, 27217), (49, 27226), (58, 27331), (60, 27382), (61, 27391), (64, 27454), (73, 27637),