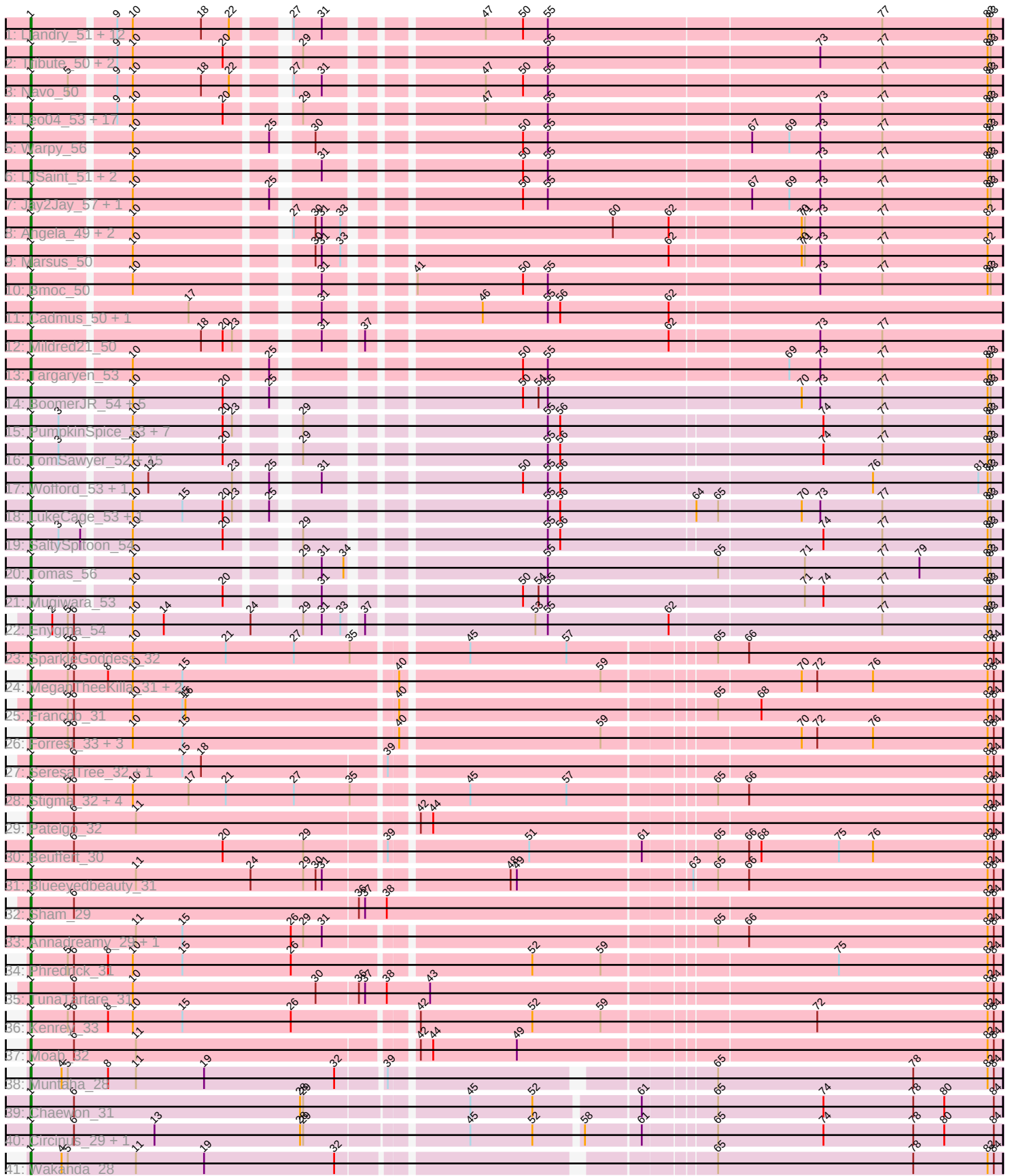


Pham 326823



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 326823 Report

This analysis was run 09/05/26 on database version 662.

Pham number 326823 has 119 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Liandry_51, NootNoot_48, Eliot67_49, Squillum_51, Persimmon_48, Bartholomune_50, Davielle_49, Braelyn_51, FreddyDRoo_50, PinkiePie_50, PynkPanther_50, WhereRU_49, Paradiddles_48
- Track 2 : Tribute_50, Teutsch_52, Samisti12_52
- Track 3 : Navo_50
- Track 4 : Leo04_53, EGole_53, Sushi23_52, Scheme_53, Cross_52, Watermoore_52, Lululemon_51, BlueOtter_52, WashU_52, Shuckle_50, ArianaSWT_55, Larnav_52, HangryHippo_52, Coogler_52, Cursive_50, PacManQ_51, Peebs_51, Pepperwood_52
- Track 5 : Warpy_56
- Track 6 : LilSaint_51, Riptide_49, Anedea_50
- Track 7 : Jay2Jay_57, Evy_53
- Track 8 : Angela_49, MulchMansion_49, LilMartin_49
- Track 9 : Marsus_50
- Track 10 : Bmoc_50
- Track 11 : Cadmus_50, Daubenski_53
- Track 12 : Mildred21_50
- Track 13 : Targaryen_53
- Track 14 : BoomerJR_54, Stanimal_54, Yaboi_54, Sollertia_54, Genie2_54, AngryGiraffe_53
- Track 15 : PumpkinSpice_53, Rikishi_54, Jollison_53, AcciDwight_58, Spelly_54, Daisy123_58, Quarant19_54, Tuesday_58
- Track 16 : TomSawyer_52, Karimac_53, Brizzy_53, Wipeout_52, Birchlyn_51, KentuckyRacer_54, JimJam_54, Bordeaux_52, MindFlayer_52, Amabiko_54, Gibbi_58, IchabodCrane_51, Starbow_52, CeilingFan_53, Spilled_55, Battuta_52
- Track 17 : Wofford_53, Elmer_56
- Track 18 : LukeCage_53, StarPlatinum_54
- Track 19 : SaltySpittoon_54
- Track 20 : Tomas_56
- Track 21 : Mugiwara_53
- Track 22 : Enygma_54
- Track 23 : SparkleGoddess_32
- Track 24 : MeganTheeKilla_31, Maupel_33, Gilson_33
- Track 25 : Francob_31
- Track 26 : Forrest_33, DeluluLabubu_31, Jada_31, Emma1919_33
- Track 27 : SeresaTree_32, Faust_32
- Track 28 : Stigma_32, Belfort_33, Westy_32, Comrade_32, Karp_31

- Track 29 : Patelgo_32
- Track 30 : Beuffert_30
- Track 31 : Blueeyedbeauty_31
- Track 32 : Sham_29
- Track 33 : Annadreamy_29, Limpid_29
- Track 34 : Phredrick_31
- Track 35 : TunaTartare_31
- Track 36 : Kenrey_33
- Track 37 : Moab_32
- Track 38 : Muntaha_28
- Track 39 : Chaewon_31
- Track 40 : Circinus_29, BillNye_27
- Track 41 : Wakanda_28

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

The start number called the most often in the published annotations is 1, it was called in 111 of the 111 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AcciDwight_58, Amabiko_54, Anedea_50, Angela_49, AngryGiraffe_53, Annadreamy_29, ArianaSWT_55, Bartholomune_50, Battuta_52, Belfort_33, Beuffert_30, BillNye_27, Birchlyn_51, BlueOtter_52, Blueeyedbeauty_31, Bmoc_50, BoomerJR_54, Bordeaux_52, Braelyn_51, Brizzy_53, Cadmus_50, CeilingFan_53, Chaewon_31, Circinus_29, Comrade_32, Coogler_52, Cross_52, Cursive_50, Daisy123_58, Daubenski_53, Davielle_49, DeluluLabubu_31, EGole_53, Eliot67_49, Elmer_56, Emma1919_33, Enygma_54, Evy_53, Faust_32, Forrest_33, Francob_31, FreddyDRoo_50, Genie2_54, Gibbi_58, Gilson_33, HangryHippo_52, IchabodCrane_51, Jada_31, Jay2Jay_57, JimJam_54, Jollison_53, Karimac_53, Karp_31, Kenrey_33, KentuckyRacer_54, Larnav_52, Leo04_53, Liandry_51, LilMartin_49, LilSaint_51, Limpid_29, LukeCage_53, Lululemon_51, Marsus_50, Maupel_33, MeganTheeKilla_31, Mildred21_50, MindFlayer_52, Moab_32, Mugiwara_53, MulchMansion_49, Muntaha_28, Navo_50, NootNoot_48, PacManQ_51, Paradiddles_48, Patelgo_32, Peebs_51, Pepperwood_52, Persimmon_48, Phredrick_31, PinkiePie_50, PumpkinSpice_53, PynkPanther_50, Quarant19_54, Rikishi_54, Riptide_49, SaltySpittoon_54, Samisti12_52, Scheme_53, SeresaTree_32, Sham_29, Shuckle_50, Sollertia_54, SparkleGoddess_32, Spelly_54, Spilled_55, Squillum_51, Stanimal_54, StarPlatinum_54, Starbow_52, Stigma_32, Sushi23_52, Targaryen_53, Teutsch_52, TomSawyer_52, Tomas_56, Tribute_50, Tuesday_58, TunaTartare_31, Wakanda_28, Warpy_56, WashU_52, Watermoore_52, Westy_32, WhereRU_49, Wipeout_52, Wofford_53, Yaboi_54,

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

•

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

•

Summary by start number:

Start 1:

- Found in 119 of 119 (100.0%) of genes in pham
- Manual Annotations of this start: 111 of 111
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_58 (BE2), Amabiko_54 (BE2), Anedea_50 (BE1), Angela_49 (BE1), AngryGiraffe_53 (BE2), Annadreamy_29 (BK1), ArianaSWT_55 (BE1), Bartholomune_50 (BE1), Battuta_52 (BE2), Belfort_33 (BK1), Beuffert_30 (BK1), BillNye_27 (BK2), Birchlyn_51 (BE2), BlueOtter_52 (BE1), Blueeyedbeauty_31 (BK1), Bmoc_50 (BE1), BoomerJR_54 (BE2), Bordeaux_52 (BE2), Braelyn_51 (BE1), Brizzy_53 (BE2), Cadmus_50 (BE1), CeilingFan_53 (BE2), Chaewon_31 (BK2), Circinus_29 (BK2), Comrade_32 (BK1), Coogler_52 (BE1), Cross_52 (BE1), Cursive_50 (BE1), Daisy123_58 (BE2), Daubenski_53 (BE1), Davielle_49 (BE1), DeluluLabubu_31 (BK1), EGole_53 (BE1), Eliot67_49 (BE1), Elmer_56 (BE2), Emma1919_33 (BK1), Enygma_54 (BE2), Evy_53 (BE1), Faust_32 (BK1), Forrest_33 (BK1), Francob_31 (BK1), FreddyDRoo_50 (BE1), Genie2_54 (BE2), Gibbi_58 (BE2), Gilson_33 (BK1), HangryHippo_52 (BE1), IchabodCrane_51 (BE2), Jada_31 (BK1), Jay2Jay_57 (BE1), JimJam_54 (BE2), Jollison_53 (BE2), Karimac_53 (BE2), Karp_31 (BK1), Kenrey_33 (BK1), KentuckyRacer_54 (BE2), Larnav_52 (BE1), Leo04_53 (BE1), Liandry_51 (BE1), LilMartin_49 (BE1), LilSaint_51 (BE1), Limpid_29 (BK1), LukeCage_53 (BE2), Lululemon_51 (BE1), Marsus_50 (BE1), MaupeI_33 (BK1), MeganTheeKilla_31 (BK1), Mildred21_50 (BE1), MindFlayer_52 (BE2), Moab_32 (BK1), Mugiwara_53 (BE2), MulchMansion_49 (BE1), Muntaha_28 (BK2), Navo_50 (BE1), NootNoot_48 (BE1), PacManQ_51 (BE1), Paradiddles_48 (BE1), Patelgo_32 (BK1), Peebs_51 (BE1), Pepperwood_52 (BE1), Persimmon_48 (BE1), Phredrick_31 (BK1), PinkiePie_50 (BE1), PumpkinSpice_53 (BE2), PynkPanther_50 (BE1), Quarant19_54 (BE2), Rikishi_54 (BE2), Riptide_49 (BE1), SaltySpittoon_54 (BE2), Samisti12_52 (BE1), Scheme_53 (BE1), SeresaTree_32 (BK1), Sham_29 (BK1), Shuckle_50 (BE1), Sollertia_54 (BE2), SparkleGoddess_32 (BK1), Spelly_54 (BE2), Spilled_55 (BE2), Squillium_51 (BE1), Stanimal_54 (BE2), StarPlatinum_54 (BE2), Starbow_52 (BE2), Stigma_32 (BK1), Sushi23_52 (BE1), Targaryen_53 (BE1), Deutsch_52 (BE1), TomSawyer_52 (BE2), Tomas_56 (BE2), Tribute_50 (BE1), Tuesday_58 (BE2), TunaTartare_31 (BK1), Wakanda_28 (BK2), Warpy_56 (BE1), WashU_52 (BE1), Watermoore_52 (BE1), Westy_32 (BK1), WhereRU_49 (BE1), Wipeout_52 (BE2), Wofford_53 (BE2), Yaboi_54 (BE2),

Summary by clusters:

There are 4 clusters represented in this pham: BE2, BE1, BK1, BK2,

Info for manual annotations of cluster BE1:

- Start number 1 was manually annotated 48 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 1 was manually annotated 34 times for cluster BE2.

Info for manual annotations of cluster BK1:

- Start number 1 was manually annotated 24 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 1 was manually annotated 5 times for cluster BK2.

Gene Information:

Gene: AcciDwight_58 Start: 29538, Stop: 30407, Start Num: 1

Candidate Starts for AcciDwight_58:

(Start: 1 @29538 has 111 MA's), (3, 29565), (10, 29628), (20, 29715), (23, 29724), (29, 29769), (55, 29976), (56, 29988), (74, 30234), (77, 30291), (82, 30393), (83, 30396),

Gene: Amabiko_54 Start: 29583, Stop: 30452, Start Num: 1

Candidate Starts for Amabiko_54:

(Start: 1 @29583 has 111 MA's), (3, 29610), (10, 29673), (20, 29760), (29, 29814), (55, 30021), (56, 30033), (74, 30279), (77, 30336), (82, 30438), (83, 30441),

Gene: Anedea_50 Start: 29113, Stop: 29985, Start Num: 1

Candidate Starts for Anedea_50:

(Start: 1 @29113 has 111 MA's), (10, 29203), (31, 29362), (50, 29527), (55, 29551), (73, 29809), (77, 29869), (82, 29971), (83, 29974),

Gene: Angela_49 Start: 28594, Stop: 29463, Start Num: 1

Candidate Starts for Angela_49:

(Start: 1 @28594 has 111 MA's), (10, 28684), (27, 28816), (30, 28837), (31, 28843), (33, 28861), (60, 29095), (62, 29149), (70, 29269), (71, 29272), (73, 29287), (77, 29347), (82, 29449),

Gene: AngryGiraffe_53 Start: 29554, Stop: 30426, Start Num: 1

Candidate Starts for AngryGiraffe_53:

(Start: 1 @29554 has 111 MA's), (10, 29644), (20, 29731), (25, 29767), (50, 29968), (54, 29983), (55, 29992), (70, 30232), (73, 30250), (77, 30310), (82, 30412), (83, 30415),

Gene: Annadreamy_29 Start: 18085, Stop: 18990, Start Num: 1

Candidate Starts for Annadreamy_29:

(Start: 1 @18085 has 111 MA's), (11, 18187), (15, 18232), (26, 18337), (29, 18349), (31, 18367), (65, 18715), (66, 18745), (82, 18976), (84, 18982),

Gene: ArianaSWT_55 Start: 30224, Stop: 31096, Start Num: 1

Candidate Starts for ArianaSWT_55:

(Start: 1 @30224 has 111 MA's), (9, 30299), (10, 30314), (20, 30401), (29, 30455), (47, 30602), (55, 30662), (73, 30920), (77, 30980), (82, 31082), (83, 31085),

Gene: Bartholomune_50 Start: 28895, Stop: 29767, Start Num: 1

Candidate Starts for Bartholomune_50:

(Start: 1 @28895 has 111 MA's), (9, 28970), (10, 28985), (18, 29051), (22, 29078), (27, 29117), (31, 29144), (47, 29273), (50, 29309), (55, 29333), (77, 29651), (82, 29753), (83, 29756),

Gene: Battuta_52 Start: 29557, Stop: 30426, Start Num: 1

Candidate Starts for Battuta_52:

(Start: 1 @29557 has 111 MA's), (3, 29584), (10, 29647), (20, 29734), (29, 29788), (55, 29995), (56, 30007), (74, 30253), (77, 30310), (82, 30412), (83, 30415),

Gene: Belfort_33 Start: 20606, Stop: 21514, Start Num: 1

Candidate Starts for Belfort_33:

(Start: 1 @20606 has 111 MA's), (5, 20642), (6, 20648), (10, 20705), (17, 20759), (21, 20795), (27, 20861), (35, 20915), (45, 21014), (57, 21107), (65, 21239), (66, 21269), (82, 21500), (84, 21506),

Gene: Beuffert_30 Start: 19180, Stop: 20085, Start Num: 1

Candidate Starts for Beuffert_30:

(Start: 1 @19180 has 111 MA's), (6, 19222), (20, 19366), (29, 19444), (39, 19516), (51, 19642), (61, 19747), (65, 19810), (66, 19840), (68, 19852), (75, 19927), (76, 19960), (82, 20071), (84, 20077),

Gene: BillNye_27 Start: 21510, Stop: 22409, Start Num: 1

Candidate Starts for BillNye_27:

(Start: 1 @21510 has 111 MA's), (6, 21552), (13, 21630), (28, 21771), (29, 21774), (45, 21918), (52, 21978), (58, 22020), (61, 22071), (65, 22134), (74, 22236), (78, 22323), (80, 22353), (84, 22401),

Gene: Birchlyn_51 Start: 27440, Stop: 28309, Start Num: 1

Candidate Starts for Birchlyn_51:

(Start: 1 @27440 has 111 MA's), (3, 27467), (10, 27530), (20, 27617), (29, 27671), (55, 27878), (56, 27890), (74, 28136), (77, 28193), (82, 28295), (83, 28298),

Gene: BlueOtter_52 Start: 30262, Stop: 31134, Start Num: 1

Candidate Starts for BlueOtter_52:

(Start: 1 @30262 has 111 MA's), (9, 30337), (10, 30352), (20, 30439), (29, 30493), (47, 30640), (55, 30700), (73, 30958), (77, 31018), (82, 31120), (83, 31123),

Gene: Blueeyedbeauty_31 Start: 18576, Stop: 19481, Start Num: 1

Candidate Starts for Blueeyedbeauty_31:

(Start: 1 @18576 has 111 MA's), (11, 18678), (24, 18789), (29, 18840), (30, 18852), (31, 18858), (48, 19020), (49, 19026), (63, 19185), (65, 19206), (66, 19236), (82, 19467), (84, 19473),

Gene: Bmoc_50 Start: 28898, Stop: 29770, Start Num: 1

Candidate Starts for Bmoc_50:

(Start: 1 @28898 has 111 MA's), (10, 28988), (31, 29147), (41, 29210), (50, 29312), (55, 29336), (73, 29594), (77, 29654), (82, 29756), (83, 29759),

Gene: BoomerJR_54 Start: 29443, Stop: 30315, Start Num: 1

Candidate Starts for BoomerJR_54:

(Start: 1 @29443 has 111 MA's), (10, 29533), (20, 29620), (25, 29656), (50, 29857), (54, 29872), (55, 29881), (70, 30121), (73, 30139), (77, 30199), (82, 30301), (83, 30304),

Gene: Bordeaux_52 Start: 29712, Stop: 30581, Start Num: 1

Candidate Starts for Bordeaux_52:

(Start: 1 @29712 has 111 MA's), (3, 29739), (10, 29802), (20, 29889), (29, 29943), (55, 30150), (56, 30162), (74, 30408), (77, 30465), (82, 30567), (83, 30570),

Gene: Braelyn_51 Start: 29662, Stop: 30534, Start Num: 1

Candidate Starts for Braelyn_51:

(Start: 1 @29662 has 111 MA's), (9, 29737), (10, 29752), (18, 29818), (22, 29845), (27, 29884), (31, 29911), (47, 30040), (50, 30076), (55, 30100), (77, 30418), (82, 30520), (83, 30523),

Gene: Brizzy_53 Start: 29231, Stop: 30100, Start Num: 1

Candidate Starts for Brizzy_53:

(Start: 1 @29231 has 111 MA's), (3, 29258), (10, 29321), (20, 29408), (29, 29462), (55, 29669), (56, 29681), (74, 29927), (77, 29984), (82, 30086), (83, 30089),

Gene: Cadmus_50 Start: 29247, Stop: 30116, Start Num: 1

Candidate Starts for Cadmus_50:

(Start: 1 @29247 has 111 MA's), (17, 29391), (31, 29496), (46, 29622), (55, 29685), (56, 29697), (62, 29802),

Gene: CeilingFan_53 Start: 29472, Stop: 30341, Start Num: 1

Candidate Starts for CeilingFan_53:

(Start: 1 @29472 has 111 MA's), (3, 29499), (10, 29562), (20, 29649), (29, 29703), (55, 29910), (56, 29922), (74, 30168), (77, 30225), (82, 30327), (83, 30330),

Gene: Chaewon_31 Start: 21632, Stop: 22531, Start Num: 1

Candidate Starts for Chaewon_31:

(Start: 1 @21632 has 111 MA's), (6, 21674), (28, 21893), (29, 21896), (45, 22040), (52, 22100), (61, 22193), (65, 22256), (74, 22358), (78, 22445), (80, 22475), (84, 22523),

Gene: Circinus_29 Start: 21646, Stop: 22545, Start Num: 1

Candidate Starts for Circinus_29:

(Start: 1 @21646 has 111 MA's), (6, 21688), (13, 21766), (28, 21907), (29, 21910), (45, 22054), (52, 22114), (58, 22156), (61, 22207), (65, 22270), (74, 22372), (78, 22459), (80, 22489), (84, 22537),

Gene: Comrade_32 Start: 20221, Stop: 21129, Start Num: 1

Candidate Starts for Comrade_32:

(Start: 1 @20221 has 111 MA's), (5, 20257), (6, 20263), (10, 20320), (17, 20374), (21, 20410), (27, 20476), (35, 20530), (45, 20629), (57, 20722), (65, 20854), (66, 20884), (82, 21115), (84, 21121),

Gene: Coogler_52 Start: 30288, Stop: 31160, Start Num: 1

Candidate Starts for Coogler_52:

(Start: 1 @30288 has 111 MA's), (9, 30363), (10, 30378), (20, 30465), (29, 30519), (47, 30666), (55, 30726), (73, 30984), (77, 31044), (82, 31146), (83, 31149),

Gene: Cross_52 Start: 30263, Stop: 31135, Start Num: 1

Candidate Starts for Cross_52:

(Start: 1 @30263 has 111 MA's), (9, 30338), (10, 30353), (20, 30440), (29, 30494), (47, 30641), (55, 30701), (73, 30959), (77, 31019), (82, 31121), (83, 31124),

Gene: Cursive_50 Start: 29788, Stop: 30660, Start Num: 1

Candidate Starts for Cursive_50:

(Start: 1 @29788 has 111 MA's), (9, 29863), (10, 29878), (20, 29965), (29, 30019), (47, 30166), (55, 30226), (73, 30484), (77, 30544), (82, 30646), (83, 30649),

Gene: Daisy123_58 Start: 29331, Stop: 30200, Start Num: 1

Candidate Starts for Daisy123_58:

(Start: 1 @29331 has 111 MA's), (3, 29358), (10, 29421), (20, 29508), (23, 29517), (29, 29562), (55, 29769), (56, 29781), (74, 30027), (77, 30084), (82, 30186), (83, 30189),

Gene: Daubenski_53 Start: 30011, Stop: 30880, Start Num: 1

Candidate Starts for Daubenski_53:

(Start: 1 @30011 has 111 MA's), (17, 30155), (31, 30260), (46, 30386), (55, 30449), (56, 30461), (62, 30566),

Gene: Davielle_49 Start: 29079, Stop: 29951, Start Num: 1

Candidate Starts for Davielle_49:

(Start: 1 @29079 has 111 MA's), (9, 29154), (10, 29169), (18, 29235), (22, 29262), (27, 29301), (31, 29328), (47, 29457), (50, 29493), (55, 29517), (77, 29835), (82, 29937), (83, 29940),

Gene: DeluluLabubu_31 Start: 18307, Stop: 19212, Start Num: 1

Candidate Starts for DeluluLabubu_31:

(Start: 1 @18307 has 111 MA's), (5, 18343), (6, 18349), (10, 18406), (15, 18454), (40, 18655), (59, 18841), (70, 19018), (72, 19033), (76, 19087), (82, 19198), (84, 19204),

Gene: EGole_53 Start: 31167, Stop: 32039, Start Num: 1

Candidate Starts for EGole_53:

(Start: 1 @31167 has 111 MA's), (9, 31242), (10, 31257), (20, 31344), (29, 31398), (47, 31545), (55, 31605), (73, 31863), (77, 31923), (82, 32025), (83, 32028),

Gene: Eliot67_49 Start: 28892, Stop: 29764, Start Num: 1

Candidate Starts for Eliot67_49:

(Start: 1 @28892 has 111 MA's), (9, 28967), (10, 28982), (18, 29048), (22, 29075), (27, 29114), (31, 29141), (47, 29270), (50, 29306), (55, 29330), (77, 29648), (82, 29750), (83, 29753),

Gene: Elmer_56 Start: 30619, Stop: 31491, Start Num: 1

Candidate Starts for Elmer_56:

(Start: 1 @30619 has 111 MA's), (10, 30709), (12, 30724), (23, 30805), (25, 30832), (31, 30868), (50, 31033), (55, 31057), (56, 31069), (76, 31366), (81, 31468), (82, 31477), (83, 31480),

Gene: Emma1919_33 Start: 19002, Stop: 19907, Start Num: 1

Candidate Starts for Emma1919_33:

(Start: 1 @19002 has 111 MA's), (5, 19038), (6, 19044), (10, 19101), (15, 19149), (40, 19350), (59, 19536), (70, 19713), (72, 19728), (76, 19782), (82, 19893), (84, 19899),

Gene: Enygma_54 Start: 31358, Stop: 32263, Start Num: 1

Candidate Starts for Enygma_54:

(Start: 1 @31358 has 111 MA's), (2, 31379), (5, 31394), (6, 31400), (10, 31457), (14, 31487), (24, 31571), (29, 31622), (31, 31640), (33, 31658), (37, 31670), (53, 31817), (55, 31829), (62, 31946), (77, 32147), (82, 32249), (83, 32252),

Gene: Evy_53 Start: 30261, Stop: 31133, Start Num: 1

Candidate Starts for Evy_53:

(Start: 1 @30261 has 111 MA's), (10, 30351), (25, 30474), (50, 30675), (55, 30699), (67, 30891), (69, 30927), (73, 30957), (77, 31017), (82, 31119), (83, 31122),

Gene: Faust_32 Start: 19602, Stop: 20504, Start Num: 1

Candidate Starts for Faust_32:

(Start: 1 @19602 has 111 MA's), (6, 19644), (15, 19749), (18, 19767), (39, 19938), (82, 20490), (84, 20496),

Gene: Forrest_33 Start: 19125, Stop: 20030, Start Num: 1

Candidate Starts for Forrest_33:

(Start: 1 @19125 has 111 MA's), (5, 19161), (6, 19167), (10, 19224), (15, 19272), (40, 19473), (59, 19659), (70, 19836), (72, 19851), (76, 19905), (82, 20016), (84, 20022),

Gene: Francob_31 Start: 19130, Stop: 20038, Start Num: 1

Candidate Starts for Francob_31:

(Start: 1 @19130 has 111 MA's), (5, 19166), (6, 19172), (10, 19229), (15, 19277), (16, 19280), (40, 19478), (65, 19763), (68, 19805), (82, 20024), (84, 20030),

Gene: FreddyDRoo_50 Start: 28892, Stop: 29764, Start Num: 1

Candidate Starts for FreddyDRoo_50:

(Start: 1 @28892 has 111 MA's), (9, 28967), (10, 28982), (18, 29048), (22, 29075), (27, 29114), (31, 29141), (47, 29270), (50, 29306), (55, 29330), (77, 29648), (82, 29750), (83, 29753),

Gene: Genie2_54 Start: 29557, Stop: 30429, Start Num: 1

Candidate Starts for Genie2_54:

(Start: 1 @29557 has 111 MA's), (10, 29647), (20, 29734), (25, 29770), (50, 29971), (54, 29986), (55, 29995), (70, 30235), (73, 30253), (77, 30313), (82, 30415), (83, 30418),

Gene: Gibbi_58 Start: 29695, Stop: 30564, Start Num: 1

Candidate Starts for Gibbi_58:

(Start: 1 @29695 has 111 MA's), (3, 29722), (10, 29785), (20, 29872), (29, 29926), (55, 30133), (56, 30145), (74, 30391), (77, 30448), (82, 30550), (83, 30553),

Gene: Gilson_33 Start: 18955, Stop: 19860, Start Num: 1

Candidate Starts for Gilson_33:

(Start: 1 @18955 has 111 MA's), (5, 18991), (6, 18997), (8, 19030), (10, 19054), (15, 19102), (40, 19303), (59, 19489), (70, 19666), (72, 19681), (76, 19735), (82, 19846), (84, 19852),

Gene: HangryHippo_52 Start: 30262, Stop: 31134, Start Num: 1

Candidate Starts for HangryHippo_52:

(Start: 1 @30262 has 111 MA's), (9, 30337), (10, 30352), (20, 30439), (29, 30493), (47, 30640), (55, 30700), (73, 30958), (77, 31018), (82, 31120), (83, 31123),

Gene: IchabodCrane_51 Start: 29284, Stop: 30153, Start Num: 1

Candidate Starts for IchabodCrane_51:

(Start: 1 @29284 has 111 MA's), (3, 29311), (10, 29374), (20, 29461), (29, 29515), (55, 29722), (56, 29734), (74, 29980), (77, 30037), (82, 30139), (83, 30142),

Gene: Jada_31 Start: 18307, Stop: 19212, Start Num: 1

Candidate Starts for Jada_31:

(Start: 1 @18307 has 111 MA's), (5, 18343), (6, 18349), (10, 18406), (15, 18454), (40, 18655), (59, 18841), (70, 19018), (72, 19033), (76, 19087), (82, 19198), (84, 19204),

Gene: Jay2Jay_57 Start: 31069, Stop: 31941, Start Num: 1

Candidate Starts for Jay2Jay_57:

(Start: 1 @31069 has 111 MA's), (10, 31159), (25, 31282), (50, 31483), (55, 31507), (67, 31699), (69, 31735), (73, 31765), (77, 31825), (82, 31927), (83, 31930),

Gene: JimJam_54 Start: 29658, Stop: 30527, Start Num: 1

Candidate Starts for JimJam_54:

(Start: 1 @29658 has 111 MA's), (3, 29685), (10, 29748), (20, 29835), (29, 29889), (55, 30096), (56, 30108), (74, 30354), (77, 30411), (82, 30513), (83, 30516),

Gene: Jollison_53 Start: 29540, Stop: 30409, Start Num: 1

Candidate Starts for Jollison_53:

(Start: 1 @29540 has 111 MA's), (3, 29567), (10, 29630), (20, 29717), (23, 29726), (29, 29771), (55, 29978), (56, 29990), (74, 30236), (77, 30293), (82, 30395), (83, 30398),

Gene: Karimac_53 Start: 29689, Stop: 30558, Start Num: 1

Candidate Starts for Karimac_53:

(Start: 1 @29689 has 111 MA's), (3, 29716), (10, 29779), (20, 29866), (29, 29920), (55, 30127), (56, 30139), (74, 30385), (77, 30442), (82, 30544), (83, 30547),

Gene: Karp_31 Start: 19821, Stop: 20729, Start Num: 1

Candidate Starts for Karp_31:

(Start: 1 @19821 has 111 MA's), (5, 19857), (6, 19863), (10, 19920), (17, 19974), (21, 20010), (27, 20076), (35, 20130), (45, 20229), (57, 20322), (65, 20454), (66, 20484), (82, 20715), (84, 20721),

Gene: Kenrey_33 Start: 19004, Stop: 19909, Start Num: 1

Candidate Starts for Kenrey_33:

(Start: 1 @19004 has 111 MA's), (5, 19040), (6, 19046), (8, 19079), (10, 19103), (15, 19151), (26, 19256), (42, 19364), (52, 19472), (59, 19538), (72, 19730), (82, 19895), (84, 19901),

Gene: KentuckyRacer_54 Start: 29473, Stop: 30342, Start Num: 1

Candidate Starts for KentuckyRacer_54:

(Start: 1 @29473 has 111 MA's), (3, 29500), (10, 29563), (20, 29650), (29, 29704), (55, 29911), (56, 29923), (74, 30169), (77, 30226), (82, 30328), (83, 30331),

Gene: Larnav_52 Start: 30247, Stop: 31119, Start Num: 1

Candidate Starts for Larnav_52:

(Start: 1 @30247 has 111 MA's), (9, 30322), (10, 30337), (20, 30424), (29, 30478), (47, 30625), (55, 30685), (73, 30943), (77, 31003), (82, 31105), (83, 31108),

Gene: Leo04_53 Start: 30762, Stop: 31634, Start Num: 1

Candidate Starts for Leo04_53:

(Start: 1 @30762 has 111 MA's), (9, 30837), (10, 30852), (20, 30939), (29, 30993), (47, 31140), (55, 31200), (73, 31458), (77, 31518), (82, 31620), (83, 31623),

Gene: Liandry_51 Start: 29599, Stop: 30471, Start Num: 1

Candidate Starts for Liandry_51:

(Start: 1 @29599 has 111 MA's), (9, 29674), (10, 29689), (18, 29755), (22, 29782), (27, 29821), (31, 29848), (47, 29977), (50, 30013), (55, 30037), (77, 30355), (82, 30457), (83, 30460),

Gene: LilMartin_49 Start: 28542, Stop: 29411, Start Num: 1

Candidate Starts for LilMartin_49:

(Start: 1 @28542 has 111 MA's), (10, 28632), (27, 28764), (30, 28785), (31, 28791), (33, 28809), (60, 29043), (62, 29097), (70, 29217), (71, 29220), (73, 29235), (77, 29295), (82, 29397),

Gene: LilSaint_51 Start: 28785, Stop: 29657, Start Num: 1

Candidate Starts for LilSaint_51:

(Start: 1 @28785 has 111 MA's), (10, 28875), (31, 29034), (50, 29199), (55, 29223), (73, 29481), (77, 29541), (82, 29643), (83, 29646),

Gene: Limpid_29 Start: 18084, Stop: 18989, Start Num: 1

Candidate Starts for Limpid_29:

(Start: 1 @18084 has 111 MA's), (11, 18186), (15, 18231), (26, 18336), (29, 18348), (31, 18366), (65, 18714), (66, 18744), (82, 18975), (84, 18981),

Gene: LukeCage_53 Start: 29437, Stop: 30309, Start Num: 1

Candidate Starts for LukeCage_53:

(Start: 1 @29437 has 111 MA's), (10, 29527), (15, 29575), (20, 29614), (23, 29623), (25, 29650), (55, 29875), (56, 29887), (64, 30016), (65, 30037), (70, 30115), (73, 30133), (77, 30193), (82, 30295), (83, 30298),

Gene: Lululemon_51 Start: 29643, Stop: 30515, Start Num: 1

Candidate Starts for Lululemon_51:

(Start: 1 @29643 has 111 MA's), (9, 29718), (10, 29733), (20, 29820), (29, 29874), (47, 30021), (55, 30081), (73, 30339), (77, 30399), (82, 30501), (83, 30504),

Gene: Marsus_50 Start: 28814, Stop: 29683, Start Num: 1

Candidate Starts for Marsus_50:

(Start: 1 @28814 has 111 MA's), (10, 28904), (30, 29057), (31, 29063), (33, 29081), (62, 29369), (70, 29489), (71, 29492), (73, 29507), (77, 29567), (82, 29669),

Gene: Maupel_33 Start: 18955, Stop: 19860, Start Num: 1

Candidate Starts for Maupel_33:

(Start: 1 @18955 has 111 MA's), (5, 18991), (6, 18997), (8, 19030), (10, 19054), (15, 19102), (40, 19303), (59, 19489), (70, 19666), (72, 19681), (76, 19735), (82, 19846), (84, 19852),

Gene: MeganTheeKilla_31 Start: 18316, Stop: 19221, Start Num: 1

Candidate Starts for MeganTheeKilla_31:

(Start: 1 @18316 has 111 MA's), (5, 18352), (6, 18358), (8, 18391), (10, 18415), (15, 18463), (40, 18664), (59, 18850), (70, 19027), (72, 19042), (76, 19096), (82, 19207), (84, 19213),

Gene: Mildred21_50 Start: 28735, Stop: 29604, Start Num: 1

Candidate Starts for Mildred21_50:

(Start: 1 @28735 has 111 MA's), (18, 28891), (20, 28912), (23, 28921), (31, 28984), (37, 29014), (62, 29290), (73, 29428), (77, 29488),

Gene: MindFlayer_52 Start: 29191, Stop: 30060, Start Num: 1

Candidate Starts for MindFlayer_52:

(Start: 1 @29191 has 111 MA's), (3, 29218), (10, 29281), (20, 29368), (29, 29422), (55, 29629), (56, 29641), (74, 29887), (77, 29944), (82, 30046), (83, 30049),

Gene: Moab_32 Start: 20156, Stop: 21058, Start Num: 1

Candidate Starts for Moab_32:

(Start: 1 @20156 has 111 MA's), (6, 20198), (11, 20258), (42, 20513), (44, 20525), (49, 20606), (82, 21044), (84, 21050),

Gene: Mugiwara_53 Start: 29936, Stop: 30808, Start Num: 1

Candidate Starts for Mugiwara_53:

(Start: 1 @29936 has 111 MA's), (10, 30026), (20, 30113), (31, 30185), (50, 30350), (54, 30365), (55, 30374), (71, 30617), (74, 30635), (77, 30692), (82, 30794), (83, 30797),

Gene: MulchMansion_49 Start: 28542, Stop: 29411, Start Num: 1

Candidate Starts for MulchMansion_49:

(Start: 1 @28542 has 111 MA's), (10, 28632), (27, 28764), (30, 28785), (31, 28791), (33, 28809), (60, 29043), (62, 29097), (70, 29217), (71, 29220), (73, 29235), (77, 29295), (82, 29397),

Gene: Muntaha_28 Start: 19983, Stop: 20870, Start Num: 1

Candidate Starts for Muntaha_28:

(Start: 1 @19983 has 111 MA's), (4, 20013), (5, 20019), (8, 20058), (11, 20085), (19, 20151), (32, 20277), (39, 20319), (65, 20595), (78, 20784), (82, 20856), (84, 20862),

Gene: Navo_50 Start: 29557, Stop: 30429, Start Num: 1

Candidate Starts for Navo_50:

(Start: 1 @29557 has 111 MA's), (5, 29593), (9, 29632), (10, 29647), (18, 29713), (22, 29740), (27, 29779), (31, 29806), (47, 29935), (50, 29971), (55, 29995), (77, 30313), (82, 30415), (83, 30418),

Gene: NootNoot_48 Start: 28513, Stop: 29385, Start Num: 1

Candidate Starts for NootNoot_48:

(Start: 1 @28513 has 111 MA's), (9, 28588), (10, 28603), (18, 28669), (22, 28696), (27, 28735), (31, 28762), (47, 28891), (50, 28927), (55, 28951), (77, 29269), (82, 29371), (83, 29374),

Gene: PacManQ_51 Start: 29643, Stop: 30515, Start Num: 1

Candidate Starts for PacManQ_51:

(Start: 1 @29643 has 111 MA's), (9, 29718), (10, 29733), (20, 29820), (29, 29874), (47, 30021), (55, 30081), (73, 30339), (77, 30399), (82, 30501), (83, 30504),

Gene: Paradiddles_48 Start: 28774, Stop: 29646, Start Num: 1

Candidate Starts for Paradiddles_48:

(Start: 1 @28774 has 111 MA's), (9, 28849), (10, 28864), (18, 28930), (22, 28957), (27, 28996), (31, 29023), (47, 29152), (50, 29188), (55, 29212), (77, 29530), (82, 29632), (83, 29635),

Gene: Patelgo_32 Start: 20346, Stop: 21248, Start Num: 1

Candidate Starts for Patelgo_32:

(Start: 1 @20346 has 111 MA's), (6, 20388), (11, 20448), (42, 20703), (44, 20715), (82, 21234), (84, 21240),

Gene: Peebs_51 Start: 30000, Stop: 30872, Start Num: 1

Candidate Starts for Peebs_51:

(Start: 1 @30000 has 111 MA's), (9, 30075), (10, 30090), (20, 30177), (29, 30231), (47, 30378), (55, 30438), (73, 30696), (77, 30756), (82, 30858), (83, 30861),

Gene: Pepperwood_52 Start: 30133, Stop: 31005, Start Num: 1

Candidate Starts for Pepperwood_52:

(Start: 1 @30133 has 111 MA's), (9, 30208), (10, 30223), (20, 30310), (29, 30364), (47, 30511), (55, 30571), (73, 30829), (77, 30889), (82, 30991), (83, 30994),

Gene: Persimmon_48 Start: 28488, Stop: 29360, Start Num: 1

Candidate Starts for Persimmon_48:

(Start: 1 @28488 has 111 MA's), (9, 28563), (10, 28578), (18, 28644), (22, 28671), (27, 28710), (31, 28737), (47, 28866), (50, 28902), (55, 28926), (77, 29244), (82, 29346), (83, 29349),

Gene: Phredrick_31 Start: 18210, Stop: 19115, Start Num: 1

Candidate Starts for Phredrick_31:

(Start: 1 @18210 has 111 MA's), (5, 18246), (6, 18252), (8, 18285), (10, 18309), (15, 18357), (26, 18462), (52, 18678), (59, 18744), (75, 18957), (82, 19101), (84, 19107),

Gene: PinkiePie_50 Start: 29599, Stop: 30471, Start Num: 1

Candidate Starts for PinkiePie_50:

(Start: 1 @29599 has 111 MA's), (9, 29674), (10, 29689), (18, 29755), (22, 29782), (27, 29821), (31, 29848), (47, 29977), (50, 30013), (55, 30037), (77, 30355), (82, 30457), (83, 30460),

Gene: PumpkinSpice_53 Start: 29583, Stop: 30452, Start Num: 1

Candidate Starts for PumpkinSpice_53:

(Start: 1 @29583 has 111 MA's), (3, 29610), (10, 29673), (20, 29760), (23, 29769), (29, 29814), (55, 30021), (56, 30033), (74, 30279), (77, 30336), (82, 30438), (83, 30441),

Gene: PynkPanther_50 Start: 29627, Stop: 30499, Start Num: 1

Candidate Starts for PynkPanther_50:

(Start: 1 @29627 has 111 MA's), (9, 29702), (10, 29717), (18, 29783), (22, 29810), (27, 29849), (31, 29876), (47, 30005), (50, 30041), (55, 30065), (77, 30383), (82, 30485), (83, 30488),

Gene: Quarant19_54 Start: 29574, Stop: 30443, Start Num: 1

Candidate Starts for Quarant19_54:

(Start: 1 @29574 has 111 MA's), (3, 29601), (10, 29664), (20, 29751), (23, 29760), (29, 29805), (55, 30012), (56, 30024), (74, 30270), (77, 30327), (82, 30429), (83, 30432),

Gene: Rikishi_54 Start: 29489, Stop: 30358, Start Num: 1

Candidate Starts for Rikishi_54:

(Start: 1 @29489 has 111 MA's), (3, 29516), (10, 29579), (20, 29666), (23, 29675), (29, 29720), (55, 29927), (56, 29939), (74, 30185), (77, 30242), (82, 30344), (83, 30347),

Gene: Riptide_49 Start: 28334, Stop: 29206, Start Num: 1

Candidate Starts for Riptide_49:

(Start: 1 @28334 has 111 MA's), (10, 28424), (31, 28583), (50, 28748), (55, 28772), (73, 29030), (77, 29090), (82, 29192), (83, 29195),

Gene: SaltySpittoon_54 Start: 29583, Stop: 30452, Start Num: 1

Candidate Starts for SaltySpittoon_54:

(Start: 1 @29583 has 111 MA's), (3, 29610), (7, 29631), (10, 29673), (20, 29760), (29, 29814), (55, 30021), (56, 30033), (74, 30279), (77, 30336), (82, 30438), (83, 30441),

Gene: Samisti12_52 Start: 31436, Stop: 32308, Start Num: 1

Candidate Starts for Samisti12_52:

(Start: 1 @31436 has 111 MA's), (9, 31511), (10, 31526), (20, 31613), (29, 31667), (55, 31874), (73, 32132), (77, 32192), (82, 32294), (83, 32297),

Gene: Scheme_53 Start: 30847, Stop: 31719, Start Num: 1

Candidate Starts for Scheme_53:

(Start: 1 @30847 has 111 MA's), (9, 30922), (10, 30937), (20, 31024), (29, 31078), (47, 31225), (55, 31285), (73, 31543), (77, 31603), (82, 31705), (83, 31708),

Gene: SeresaTree_32 Start: 18992, Stop: 19894, Start Num: 1

Candidate Starts for SeresaTree_32:

(Start: 1 @18992 has 111 MA's), (6, 19034), (15, 19139), (18, 19157), (39, 19328), (82, 19880), (84, 19886),

Gene: Sham_29 Start: 20050, Stop: 20970, Start Num: 1

Candidate Starts for Sham_29:

(Start: 1 @20050 has 111 MA's), (6, 20092), (36, 20365), (37, 20371), (38, 20392), (82, 20956), (84, 20962),

Gene: Shuckle_50 Start: 30453, Stop: 31325, Start Num: 1

Candidate Starts for Shuckle_50:

(Start: 1 @30453 has 111 MA's), (9, 30528), (10, 30543), (20, 30630), (29, 30684), (47, 30831), (55, 30891), (73, 31149), (77, 31209), (82, 31311), (83, 31314),

Gene: Sollertia_54 Start: 29557, Stop: 30429, Start Num: 1

Candidate Starts for Sollertia_54:

(Start: 1 @29557 has 111 MA's), (10, 29647), (20, 29734), (25, 29770), (50, 29971), (54, 29986), (55, 29995), (70, 30235), (73, 30253), (77, 30313), (82, 30415), (83, 30418),

Gene: SparkleGoddess_32 Start: 20223, Stop: 21131, Start Num: 1

Candidate Starts for SparkleGoddess_32:

(Start: 1 @20223 has 111 MA's), (5, 20259), (6, 20265), (10, 20322), (21, 20412), (27, 20478), (35, 20532), (45, 20631), (57, 20724), (65, 20856), (66, 20886), (82, 21117), (84, 21123),

Gene: Spelly_54 Start: 29538, Stop: 30407, Start Num: 1

Candidate Starts for Spelly_54:

(Start: 1 @29538 has 111 MA's), (3, 29565), (10, 29628), (20, 29715), (23, 29724), (29, 29769), (55, 29976), (56, 29988), (74, 30234), (77, 30291), (82, 30393), (83, 30396),

Gene: Spilled_55 Start: 29655, Stop: 30524, Start Num: 1

Candidate Starts for Spilled_55:

(Start: 1 @29655 has 111 MA's), (3, 29682), (10, 29745), (20, 29832), (29, 29886), (55, 30093), (56, 30105), (74, 30351), (77, 30408), (82, 30510), (83, 30513),

Gene: Squillium_51 Start: 29600, Stop: 30472, Start Num: 1

Candidate Starts for Squillium_51:

(Start: 1 @29600 has 111 MA's), (9, 29675), (10, 29690), (18, 29756), (22, 29783), (27, 29822), (31, 29849), (47, 29978), (50, 30014), (55, 30038), (77, 30356), (82, 30458), (83, 30461),

Gene: Stanimal_54 Start: 29446, Stop: 30318, Start Num: 1

Candidate Starts for Stanimal_54:

(Start: 1 @29446 has 111 MA's), (10, 29536), (20, 29623), (25, 29659), (50, 29860), (54, 29875), (55, 29884), (70, 30124), (73, 30142), (77, 30202), (82, 30304), (83, 30307),

Gene: StarPlatinum_54 Start: 30080, Stop: 30952, Start Num: 1

Candidate Starts for StarPlatinum_54:

(Start: 1 @30080 has 111 MA's), (10, 30170), (15, 30218), (20, 30257), (23, 30266), (25, 30293), (55, 30518), (56, 30530), (64, 30659), (65, 30680), (70, 30758), (73, 30776), (77, 30836), (82, 30938), (83, 30941),

Gene: Starbow_52 Start: 29559, Stop: 30428, Start Num: 1

Candidate Starts for Starbow_52:

(Start: 1 @29559 has 111 MA's), (3, 29586), (10, 29649), (20, 29736), (29, 29790), (55, 29997), (56, 30009), (74, 30255), (77, 30312), (82, 30414), (83, 30417),

Gene: Stigma_32 Start: 20224, Stop: 21132, Start Num: 1

Candidate Starts for Stigma_32:

(Start: 1 @20224 has 111 MA's), (5, 20260), (6, 20266), (10, 20323), (17, 20377), (21, 20413), (27, 20479), (35, 20533), (45, 20632), (57, 20725), (65, 20857), (66, 20887), (82, 21118), (84, 21124),

Gene: Sushi23_52 Start: 30358, Stop: 31230, Start Num: 1

Candidate Starts for Sushi23_52:

(Start: 1 @30358 has 111 MA's), (9, 30433), (10, 30448), (20, 30535), (29, 30589), (47, 30736), (55, 30796), (73, 31054), (77, 31114), (82, 31216), (83, 31219),

Gene: Targaryen_53 Start: 31118, Stop: 31990, Start Num: 1

Candidate Starts for Targaryen_53:

(Start: 1 @31118 has 111 MA's), (10, 31208), (25, 31331), (50, 31532), (55, 31556), (69, 31784), (73, 31814), (77, 31874), (82, 31976), (83, 31979),

Gene: Deutsch_52 Start: 30627, Stop: 31499, Start Num: 1

Candidate Starts for Deutsch_52:

(Start: 1 @30627 has 111 MA's), (9, 30702), (10, 30717), (20, 30804), (29, 30858), (55, 31065), (73, 31323), (77, 31383), (82, 31485), (83, 31488),

Gene: TomSawyer_52 Start: 29177, Stop: 30046, Start Num: 1

Candidate Starts for TomSawyer_52:

(Start: 1 @29177 has 111 MA's), (3, 29204), (10, 29267), (20, 29354), (29, 29408), (55, 29615), (56, 29627), (74, 29873), (77, 29930), (82, 30032), (83, 30035),

Gene: Tomas_56 Start: 31900, Stop: 32775, Start Num: 1

Candidate Starts for Tomas_56:

(Start: 1 @31900 has 111 MA's), (10, 31990), (29, 32131), (31, 32149), (34, 32170), (55, 32338), (65, 32503), (71, 32584), (77, 32659), (79, 32695), (82, 32761), (83, 32764),

Gene: Tribute_50 Start: 29827, Stop: 30699, Start Num: 1

Candidate Starts for Tribute_50:

(Start: 1 @29827 has 111 MA's), (9, 29902), (10, 29917), (20, 30004), (29, 30058), (55, 30265), (73, 30523), (77, 30583), (82, 30685), (83, 30688),

Gene: Tuesday_58 Start: 29721, Stop: 30590, Start Num: 1

Candidate Starts for Tuesday_58:

(Start: 1 @29721 has 111 MA's), (3, 29748), (10, 29811), (20, 29898), (23, 29907), (29, 29952), (55, 30159), (56, 30171), (74, 30417), (77, 30474), (82, 30576), (83, 30579),

Gene: TunaTartare_31 Start: 20343, Stop: 21263, Start Num: 1

Candidate Starts for TunaTartare_31:

(Start: 1 @20343 has 111 MA's), (6, 20385), (10, 20442), (30, 20619), (36, 20658), (37, 20664), (38, 20685), (43, 20727), (82, 21249), (84, 21255),

Gene: Wakanda_28 Start: 19921, Stop: 20808, Start Num: 1

Candidate Starts for Wakanda_28:

(Start: 1 @19921 has 111 MA's), (4, 19951), (5, 19957), (11, 20023), (19, 20089), (32, 20215), (65, 20533), (78, 20722), (82, 20794), (84, 20800),

Gene: Warpy_56 Start: 30582, Stop: 31454, Start Num: 1

Candidate Starts for Warpy_56:

(Start: 1 @30582 has 111 MA's), (10, 30672), (25, 30795), (30, 30825), (50, 30996), (55, 31020), (67, 31212), (69, 31248), (73, 31278), (77, 31338), (82, 31440), (83, 31443),

Gene: WashU_52 Start: 30136, Stop: 31008, Start Num: 1

Candidate Starts for WashU_52:

(Start: 1 @30136 has 111 MA's), (9, 30211), (10, 30226), (20, 30313), (29, 30367), (47, 30514), (55, 30574), (73, 30832), (77, 30892), (82, 30994), (83, 30997),

Gene: Watermoore_52 Start: 30834, Stop: 31706, Start Num: 1

Candidate Starts for Watermoore_52:

(Start: 1 @30834 has 111 MA's), (9, 30909), (10, 30924), (20, 31011), (29, 31065), (47, 31212), (55, 31272), (73, 31530), (77, 31590), (82, 31692), (83, 31695),

Gene: Westy_32 Start: 20224, Stop: 21132, Start Num: 1

Candidate Starts for Westy_32:

(Start: 1 @20224 has 111 MA's), (5, 20260), (6, 20266), (10, 20323), (17, 20377), (21, 20413), (27, 20479), (35, 20533), (45, 20632), (57, 20725), (65, 20857), (66, 20887), (82, 21118), (84, 21124),

Gene: WhereRU_49 Start: 29079, Stop: 29951, Start Num: 1

Candidate Starts for WhereRU_49:

(Start: 1 @29079 has 111 MA's), (9, 29154), (10, 29169), (18, 29235), (22, 29262), (27, 29301), (31, 29328), (47, 29457), (50, 29493), (55, 29517), (77, 29835), (82, 29937), (83, 29940),

Gene: Wipeout_52 Start: 29928, Stop: 30797, Start Num: 1

Candidate Starts for Wipeout_52:

(Start: 1 @29928 has 111 MA's), (3, 29955), (10, 30018), (20, 30105), (29, 30159), (55, 30366), (56, 30378), (74, 30624), (77, 30681), (82, 30783), (83, 30786),

Gene: Wofford_53 Start: 30582, Stop: 31454, Start Num: 1

Candidate Starts for Wofford_53:

(Start: 1 @30582 has 111 MA's), (10, 30672), (12, 30687), (23, 30768), (25, 30795), (31, 30831), (50, 30996), (55, 31020), (56, 31032), (76, 31329), (81, 31431), (82, 31440), (83, 31443),

Gene: Yaboi_54 Start: 29534, Stop: 30406, Start Num: 1

Candidate Starts for Yaboi_54:

(Start: 1 @29534 has 111 MA's), (10, 29624), (20, 29711), (25, 29747), (50, 29948), (54, 29963), (55, 29972), (70, 30212), (73, 30230), (77, 30290), (82, 30392), (83, 30395),