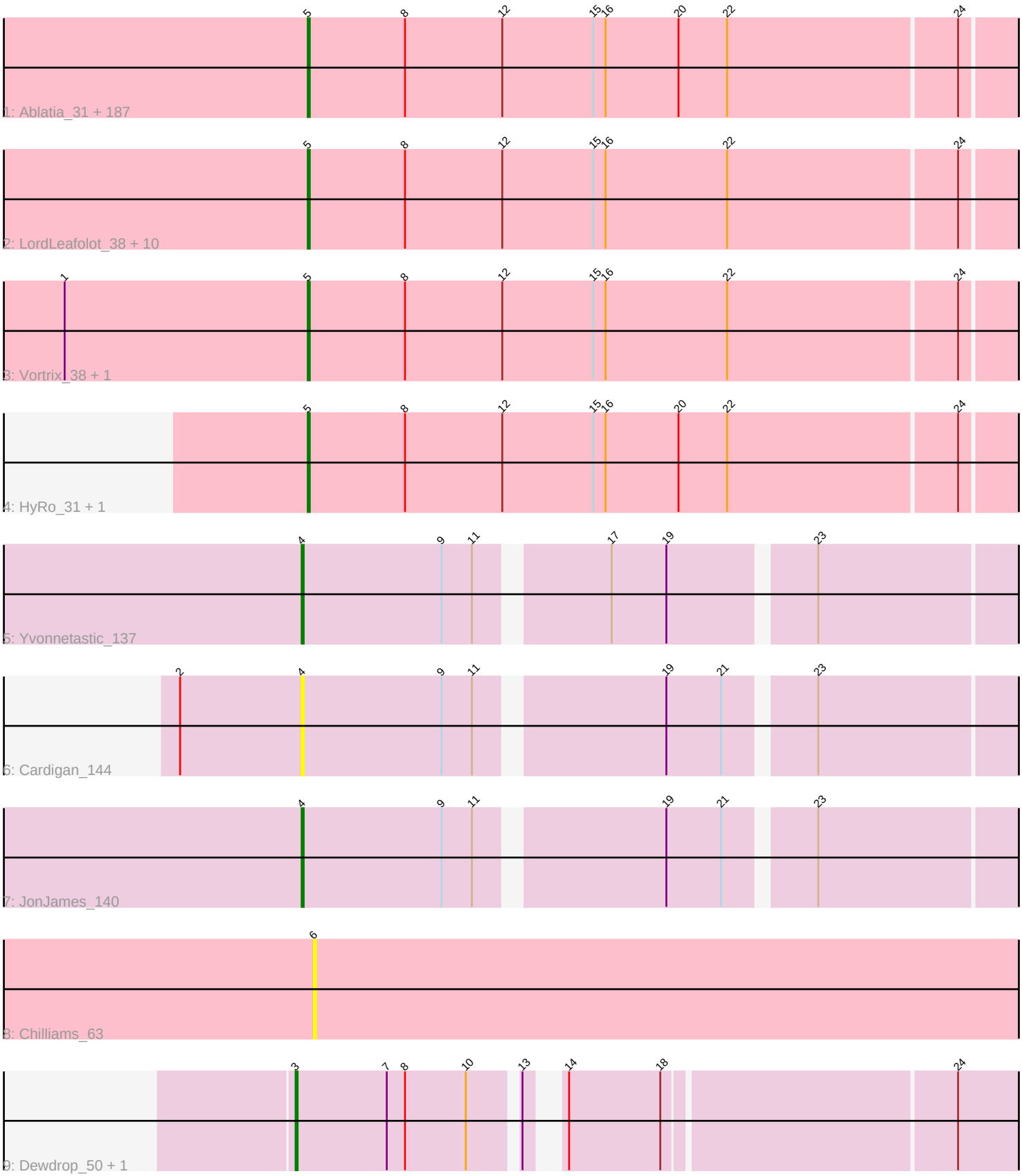
Pham 290853


5
8
12
15
16
20
22
24
1: Ablatia_31 + 187
5
8
12
15
16
22
24
2: LordLeafolot_38 + 10
1
5
8
12
15
16
22
24
3: Vortrix_38 + 1
5
8
12
15
16
20
22
24
4: HyRo_31 + 1
4
9
11
17
19
23
5: Yvonnetastic_137
2
4
9
11
19
21
23
6: Cardigan_144
4
9
11
19
21
23
7: JonJames_140
6
8: Chilliams_63
3
7
8
10
13
14
18
24
9: Dewdrop_50 + 1

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 290853 Report

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

Pham number 290853 has 209 members, 35 are drafts.

Phages represented in each track:
• Track 1 : Ablatia_31, Matsumoto_31, Bowman_31, MoMoMixon_33, Issimir_32, Gizmo_34, Astraea_33, Blackbrain_30, Rahel_32, JayJay_35, Darko_31, Maby2021_33, Bezza_24, LifeSavor_33, Essence_31, Caravan_30, Pio_35, ArcherS7_31, Grungle_25, Drazdys_32, Mangeria_35, McWolfish_31, Ewok_32, Phlegm_34, DTDevon_33, Napoleon13_31, YemiJoy2021_33, Phox_31, Bangla1971_31, Kboogie_32, Montpel_31, Asterius_33, Specks_37, Lee7_31, ET08_27, Pleione_34, Fludd_31, Tortoise16_31, InigoMontoya_33, Adlitam_32, JustHall_31, Morizzled23_31, Ading_32, Shrimp_32, ChickenPhender_31, Amataga_32, EmToTheThree_35, Bigswole_38, PurduePete_31, Koguma_28, Izajani_33, CindyLou_32, InterFolia_39, Turret_30, Rizal_30, Substance289_29, ChaylaJr_31, NedWong_33, CharlieB_32, Tyke_34, Latch_32, Zalkecks_34, Trinitium_31, Bxz1_32, Iota_29, Pier_34, SrishMeg2525_31, LRRHood_29, Daffodil_34, TinyTim_32, Cactojaque_29, Bread_33, SmallFry_32, Duckfeet_29, Phusco_32, Halldule_28, EggyFarm_36, Littleton_32, Concombre_31, Yucca_32, Spud_34, Atlantean_32, Shaqnato_28, Janiyra_32, Norm_32, Khaleesi_31, Sauce_33, IkeLoa_28, ParkTD_31, ErnieJ_33, Lunareta_31, MikeLiesIn_32, BobaPhatt_29, Burrough_32, Sprinklers_32, Ronan_27, Fongie_32, Lukilu_25, LolaVinca_35, FoxtrotP1_32, ShiaLabeouf_32, Jezreel_31, ValleyTerrace_32, Chomp_32, Maturis_32, Gamgam_32, Derek_33, Basquiat_31, Capablanca_34, BigCity_36, JulietS_27, Delilah_32, Breeniome_32, YoungMoneyMata_32, Jessibeth14_31, Momo_31, Jedediah_32, BananaFence_33, Gabriel_32, Loanshark_32, NoodleTree_31, EmmaElysia_30, Lethe_31, Babyland_31, Erdmann_33, SVoro_31, EasyJones_31, Kamryn_32, Blackdragon_27, Nidhogg_33, Dessert_30, Guwapp_32, Shnickers_32, Dandelion_36, Patter_32, Cali_32, FudgeTart_33, Spec_30, RoMag_27, Melpomini_31, SilverDipper_33, Rocha_30, Audrick_34, JigglyPuff_32, StubbySaigey_31, DrPhinkDaddy_32, Demodog_30, Sebata_32, Willis_32, Pivoine_32, Labradorite_31, Jemmno_32, Bipolarisk_31, Naval22_34, JPickles_30, Yassified_29, Nappy_33, Belieber_28, Grasshills_36, Salacia_34, BadAgartude_33, Wally_31, Naija_32, Catera_30, LookingGlass_35, Mikro_30, Quasimodo_32, QBert_30, McGee_31, BeanWater_28, Ngannou_30, ScottMcG_32, ZygoTaiga_32, Teardrop_31, OrediggerDelux_31, Fixie_29, Ghost_32, BackyardAgain_29, GlutenPhree_33, Zeenon_34, Megamind_32, Ava3_33, StephanieG_32, NuevoMundo_35, Chargie21_31, Bonray_32, Jaygup_32, Roots515_32
• Track 2 : LordLeafolot_38, Primadonna_27, FrayBell_38, Cleatunium_28, Dietrick_27, PharkleMinkus_37, Tainan_37, DirtMonster_31, Blubba_26, Domi_27, I3_34

• Track 3 : Vortrix_38, Tonenili_36
• Track 4 : HyRo_31, Shifa_29
• Track 5 : Yvonnetastic_137
• Track 6 : Cardigan_144
• Track 7 : JonJames_140
• Track 8 : Chilliams_63
• Track 9 : Dewdrop_50, Leaf_50

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

The start number called the most often in the published annotations is 5, it was called in 170 of the 174 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ablatia_31, Ading_32, Adlitam_32, Amataga_32, ArcherS7_31, Asterius_33, Astraea_33, Atlantean_32, Audrick_34, Ava3_33, Babyland_31, BackyardAgain_29, BadAgartude_33, BananaFence_33, Bangla1971_31, Basquiat_31, BeanWater_28, Belieber_28, Bezza_24, BigCity_36, Bigswole_38, Bipolarisk_31, Blackbrain_30, Blackdragon_27, Blubba_26, BobaPhatt_29, Bonray_32, Bowman_31, Bread_33, Breeniome_32, Burrough_32, Bxz1_32, Cactojaque_29, Cali_32, Capablanca_34, Caravan_30, Catera_30, Chargie21_31, CharlieB_32, ChaylaJr_31, ChickenPhender_31, Chomp_32, CindyLou_32, Cleatunium_28, Concombre_31, DTDevon_33, Daffodil_34, Dandelion_36, Darko_31, Delilah_32, Demodog_30, Derek_33, Dessert_30, Dietrick_27, DirtMonster_31, Domi_27, DrPhinkDaddy_32, Drazdys_32, Duckfeet_29, ET08_27, EasyJones_31, EggyFarm_36, EmToTheThree_35, EmmaElysia_30, Erdmann_33, ErnieJ_33, Essence_31, Ewok_32, Fixie_29, Fludd_31, Fongie_32, FoxtrotP1_32, FrayBell_38, FudgeTart_33, Gabriel_32, Gamgam_32, Ghost_32, Gizmo_34, GlutenPhree_33, Grasshills_36, Grungle_25, Guwapp_32, Halldule_28, HyRo_31, I3_34, IkeLoa_28, InigoMontoya_33, InterFolia_39, Iota_29, Issimir_32, Izajani_33, JPickles_30, Janiyra_32, JayJay_35, Jaygup_32, Jedediah_32, Jemmno_32, Jessibeth14_31, Jezreel_31, JigglyPuff_32, JulietS_27, JustHall_31, Kamryn_32, Kboogie_32, Khaleesi_31, Koguma_28, LRRHood_29, Labradorite_31, Latch_32, Lee7_31, Lethe_31, LifeSavor_33, Littleton_32, Loanshark_32, LolaVinca_35, LookingGlass_35, LordLeafolot_38, Lukilu_25, Lunareta_31, Maby2021_33, Mangeria_35, Matsumoto_31, Maturis_32, McGee_31, McWolfish_31, Megamind_32, Melpomini_31, MikeLiesIn_32, Mikro_30, MoMoMixon_33, Momo_31, Montpel_31, Morizzled23_31, Naija_32, Napoleon13_31, Nappy_33, Naval22_34, NedWong_33, Ngannou_30, Nidhogg_33, NoodleTree_31, Norm_32, NuevoMundo_35, OrediggerDelux_31, ParkTD_31, Patter_32, PharkleMinkus_37, Phlegm_34, Phox_31, Phusco_32, Pier_34, Pio_35, Pivoine_32, Pleione_34, Primadonna_27, PurduePete_31, QBert_30, Quasimodo_32, Rahel_32, Rizal_30, RoMag_27, Rocha_30, Ronan_27, Roots515_32, SVoro_31, Salacia_34, Sauce_33, ScottMcG_32, Sebata_32, Shaqnato_28, ShiaLabeouf_32, Shifa_29, Shnickers_32, Shrimp_32, SilverDipper_33, SmallFry_32, Spec_30, Specks_37, Sprinklers_32, Spud_34, SrishMeg2525_31, StephanieG_32, StubbySaigey_31, Substance289_29, Tainan_37, Teardrop_31, TinyTim_32, Tonenili_36, Tortoise16_31, Trinitium_31, Turret_30, Tyke_34, ValleyTerrace_32, Vortrix_38, Wally_31, Willis_32, Yassified_29, YemiJoy2021_33, YoungMoneyMata_32, Yucca_32, Zalkecks_34, Zeenon_34, ZygoTaiga_32,

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

Genes that do not have the "Most Annotated" start:
• Cardigan_144, Chilliams_63, Dewdrop_50, JonJames_140, Leaf_50, Yvonnetastic_137,

Summary by start number:

Start 3:
• Found in 2 of 209 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 174
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dewdrop_50 (GC), Leaf_50 (GC),

Start 4:
• Found in 3 of 209 (1.4%) of genes in pham
• Manual Annotations of this start: 2 of 174
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cardigan_144 (DD), JonJames_140 (DD), Yvonnetastic_137 (DD),

Start 5:
• Found in 203 of 209 (97.1%) of genes in pham
• Manual Annotations of this start: 170 of 174
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ablatia_31 (C1), Ading_32 (C1), Adlitam_32 (C1), Amataga_32 (C1), ArcherS7_31 (C1), Asterius_33 (C1), Astraea_33 (C1), Atlantean_32 (C1), Audrick_34 (C1), Ava3_33 (C1), Babyland_31 (C1), BackyardAgain_29 (C1), BadAgartude_33 (C1), BananaFence_33 (C1), Bangla1971_31 (C1), Basquiat_31 (C1), BeanWater_28 (C1), Belieber_28 (C1), Bezza_24 (C1), BigCity_36 (C1), Bigswole_38 (C1), Bipolarisk_31 (C1), Blackbrain_30 (C1), Blackdragon_27 (C1), Blubba_26 (C1), BobaPhatt_29 (C1), Bonray_32 (C1), Bowman_31 (C1), Bread_33 (C1), Breeniome_32 (C1), Burrough_32 (C1), Bxz1_32 (C1), Cactojaque_29 (C1), Cali_32 (C1), Capablanca_34 (C1), Caravan_30 (C1), Catera_30 (C1), Chargie21_31 (C1), CharlieB_32 (C1), ChaylaJr_31 (C1), ChickenPhender_31 (C1), Chomp_32 (C1), CindyLou_32 (C1), Cleatunium_28 (C1), Concombre_31 (C1), DTDevon_33 (C1), Daffodil_34 (C1), Dandelion_36 (C1), Darko_31 (C1), Delilah_32 (C1), Demodog_30 (C1), Derek_33 (C1), Dessert_30 (C1), Dietrick_27 (C1), DirtMonster_31 (C1), Domi_27 (C1), DrPhinkDaddy_32 (C1), Drazdys_32 (C1), Duckfeet_29 (C1), ET08_27 (C1), EasyJones_31 (C1), EggyFarm_36 (C1), EmToTheThree_35 (C1), EmmaElysia_30 (C1), Erdmann_33 (C1), ErnieJ_33 (C1), Essence_31 (C1), Ewok_32 (C1), Fixie_29 (C1), Fludd_31 (C1), Fongie_32 (C1), FoxtrotP1_32 (C1), FrayBell_38 (C1), FudgeTart_33 (C1), Gabriel_32 (C1), Gamgam_32 (C1), Ghost_32 (C1), Gizmo_34 (C1), GlutenPhree_33 (C1), Grasshills_36 (C1), Grungle_25 (C1), Guwapp_32 (C1), Halldule_28 (C1), HyRo_31 (C1), I3_34 (C1), IkeLoa_28 (C1), InigoMontoya_33 (C1), InterFolia_39 (C1), Iota_29 (C1), Issimir_32 (C1), Izajani_33 (C1), JPickles_30 (C1), Janiyra_32 (C1), JayJay_35 (C1), Jaygup_32 (C1), Jedediah_32 (C1), Jemmno_32 (C1), Jessibeth14_31 (C1), Jezreel_31 (C1), JigglyPuff_32 (C1), JulietS_27 (C1), JustHall_31 (C1), Kamryn_32 (C1), Kboogie_32 (C1), Khaleesi_31 (C1), Koguma_28 (C1), LRRHood_29 (C1), Labradorite_31 (C1), Latch_32 (C1), Lee7_31 (C1),

Lethe_31 (C1), LifeSavor_33 (C1), Littleton_32 (C1), Loanshark_32 (C1), LolaVinca_35 (C1), LookingGlass_35 (C1), LordLeafolot_38 (C1), Lukilu_25 (C1), Lunareta_31 (C1), Maby2021_33 (C1), Mangeria_35 (C1), Matsumoto_31 (C1), Maturis_32 (C1), McGee_31 (C1), McWolfish_31 (C1), Megamind_32 (C1), Melpomini_31 (C1), MikeLiesIn_32 (C1), Mikro_30 (C1), MoMoMixon_33 (C1), Momo_31 (C1), Montpel_31 (C1), Morizzled23_31 (C1), Naija_32 (C1), Napoleon13_31 (C1), Nappy_33 (C1), Naval22_34 (C1), NedWong_33 (C1), Ngannou_30 (C1), Nidhogg_33 (C1), NoodleTree_31 (C1), Norm_32 (C1), NuevoMundo_35 (C1), OrediggerDelux_31 (C1), ParkTD_31 (C1), Patter_32 (C1), PharkleMinkus_37 (C1), Phlegm_34 (C1), Phox_31 (C1), Phusco_32 (C1), Pier_34 (C1), Pio_35 (C1), Pivoine_32 (C1), Pleione_34 (C1), Primadonna_27 (C1), PurduePete_31 (C1), QBert_30 (C1), Quasimodo_32 (C1), Rahel_32 (C1), Rizal_30 (C1), RoMag_27 (C1), Rocha_30 (C1), Ronan_27 (C1), Roots515_32 (C1), SVoro_31 (C1), Salacia_34 (C1), Sauce_33 (C1), ScottMcG_32 (C1), Sebata_32 (C1), Shaqnato_28 (C1), ShiaLabeouf_32 (C1), Shifa_29 (C1), Shnickers_32 (C1), Shrimp_32 (C1), SilverDipper_33 (C1), SmallFry_32 (C1), Spec_30 (C1), Specks_37 (C1), Sprinklers_32 (C1), Spud_34 (C1), SrishMeg2525_31 (C1), StephanieG_32 (C1), StubbySaigey_31 (C1), Substance289_29 (C1), Tainan_37 (C1), Teardrop_31 (C1), TinyTim_32 (C1), Tonenili_36 (C1), Tortoise16_31 (C1), Trinitium_31 (C1), Turret_30 (C1), Tyke_34 (C1), ValleyTerrace_32 (C1), Vortrix_38 (C1), Wally_31 (C1), Willis_32 (C1), Yassified_29 (C1), YemiJoy2021_33 (C1), YoungMoneyMata_32 (C1), Yucca_32 (C1), Zalkecks_34 (C1), Zeenon_34 (C1), ZygoTaiga_32 (C1),

Start 6:
• Found in 1 of 209 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_63 (FC),

Summary by clusters:

There are 4 clusters represented in this pham: C1, FC, GC, DD,

Info for manual annotations of cluster C1:
•Start number 5 was manually annotated 170 times for cluster C1.

Info for manual annotations of cluster DD:
•Start number 4 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster GC:
•Start number 3 was manually annotated 2 times for cluster GC.

Gene Information:

Gene: Ablatia_31 Start: 10089, Stop: 10439, Start Num: 5
Candidate Starts for Ablatia_31:
(Start: 5 @10089 has 170 MA's), (8, 10137), (12, 10185), (15, 10230), (16, 10236), (20, 10272), (22, 10296), (24, 10407),

Gene: Ading_32 Start: 10352, Stop: 10702, Start Num: 5

Candidate Starts for Ading_32:
(Start: 5 @10352 has 170 MA's), (8, 10400), (12, 10448), (15, 10493), (16, 10499), (20, 10535), (22, 10559), (24, 10670),

Gene: Adlitam_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Adlitam_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Amataga_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Amataga_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: ArcherS7_31 Start: 10363, Stop: 10713, Start Num: 5
Candidate Starts for ArcherS7_31:
(Start: 5 @10363 has 170 MA's), (8, 10411), (12, 10459), (15, 10504), (16, 10510), (20, 10546), (22, 10570), (24, 10681),

Gene: Asterius_33 Start: 10638, Stop: 10988, Start Num: 5
Candidate Starts for Asterius_33:
(Start: 5 @10638 has 170 MA's), (8, 10686), (12, 10734), (15, 10779), (16, 10785), (20, 10821), (22, 10845), (24, 10956),

Gene: Astraea_33 Start: 10543, Stop: 10893, Start Num: 5
Candidate Starts for Astraea_33:
(Start: 5 @10543 has 170 MA's), (8, 10591), (12, 10639), (15, 10684), (16, 10690), (20, 10726), (22, 10750), (24, 10861),

Gene: Atlantean_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Atlantean_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Audrick_34 Start: 10352, Stop: 10702, Start Num: 5
Candidate Starts for Audrick_34:
(Start: 5 @10352 has 170 MA's), (8, 10400), (12, 10448), (15, 10493), (16, 10499), (20, 10535), (22, 10559), (24, 10670),

Gene: Ava3_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Ava3_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Babyland_31 Start: 9811, Stop: 10161, Start Num: 5
Candidate Starts for Babyland_31:
(Start: 5 @9811 has 170 MA's), (8, 9859), (12, 9907), (15, 9952), (16, 9958), (20, 9994), (22, 10018), (24, 10129),

Gene: BackyardAgain_29 Start: 9792, Stop: 10142, Start Num: 5
Candidate Starts for BackyardAgain_29:
(Start: 5 @9792 has 170 MA's), (8, 9840), (12, 9888), (15, 9933), (16, 9939), (20, 9975), (22, 9999), (24, 10110),

Gene: BadAgartude_33 Start: 11005, Stop: 11355, Start Num: 5
Candidate Starts for BadAgartude_33:
(Start: 5 @11005 has 170 MA's), (8, 11053), (12, 11101), (15, 11146), (16, 11152), (20, 11188), (22, 11212), (24, 11323),

Gene: BananaFence_33 Start: 10802, Stop: 11152, Start Num: 5
Candidate Starts for BananaFence_33:
(Start: 5 @10802 has 170 MA's), (8, 10850), (12, 10898), (15, 10943), (16, 10949), (20, 10985), (22, 11009), (24, 11120),

Gene: Bangla1971_31 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Bangla1971_31:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Basquiat_31 Start: 9792, Stop: 10142, Start Num: 5
Candidate Starts for Basquiat_31:
(Start: 5 @9792 has 170 MA's), (8, 9840), (12, 9888), (15, 9933), (16, 9939), (20, 9975), (22, 9999), (24, 10110),

Gene: BeanWater_28 Start: 10762, Stop: 11112, Start Num: 5
Candidate Starts for BeanWater_28:
(Start: 5 @10762 has 170 MA's), (8, 10810), (12, 10858), (15, 10903), (16, 10909), (20, 10945), (22, 10969), (24, 11080),

Gene: Belieber_28 Start: 9559, Stop: 9909, Start Num: 5
Candidate Starts for Belieber_28:
(Start: 5 @9559 has 170 MA's), (8, 9607), (12, 9655), (15, 9700), (16, 9706), (20, 9742), (22, 9766), (24, 9877),

Gene: Bezza_24 Start: 9438, Stop: 9788, Start Num: 5
Candidate Starts for Bezza_24:
(Start: 5 @9438 has 170 MA's), (8, 9486), (12, 9534), (15, 9579), (16, 9585), (20, 9621), (22, 9645), (24, 9756),

Gene: BigCity_36 Start: 11898, Stop: 12248, Start Num: 5
Candidate Starts for BigCity_36:
(Start: 5 @11898 has 170 MA's), (8, 11946), (12, 11994), (15, 12039), (16, 12045), (20, 12081), (22, 12105), (24, 12216),

Gene: Bigswole_38 Start: 12708, Stop: 13058, Start Num: 5
Candidate Starts for Bigswole_38:
(Start: 5 @12708 has 170 MA's), (8, 12756), (12, 12804), (15, 12849), (16, 12855), (20, 12891), (22, 12915), (24, 13026),

Gene: Bipolarisk_31 Start: 10629, Stop: 10979, Start Num: 5
Candidate Starts for Bipolarisk_31:
(Start: 5 @10629 has 170 MA's), (8, 10677), (12, 10725), (15, 10770), (16, 10776), (20, 10812), (22, 10836), (24, 10947),

Gene: Blackbrain_30 Start: 9608, Stop: 9958, Start Num: 5
Candidate Starts for Blackbrain_30:

(Start: 5 @9608 has 170 MA's), (8, 9656), (12, 9704), (15, 9749), (16, 9755), (20, 9791), (22, 9815), (24, 9926),

Gene: Blackdragon_27 Start: 9394, Stop: 9744, Start Num: 5
Candidate Starts for Blackdragon_27:
(Start: 5 @9394 has 170 MA's), (8, 9442), (12, 9490), (15, 9535), (16, 9541), (20, 9577), (22, 9601), (24, 9712),

Gene: Blubba_26 Start: 9089, Stop: 9439, Start Num: 5
Candidate Starts for Blubba_26:
(Start: 5 @9089 has 170 MA's), (8, 9137), (12, 9185), (15, 9230), (16, 9236), (22, 9296), (24, 9407),

Gene: BobaPhatt_29 Start: 9803, Stop: 10153, Start Num: 5
Candidate Starts for BobaPhatt_29:
(Start: 5 @9803 has 170 MA's), (8, 9851), (12, 9899), (15, 9944), (16, 9950), (20, 9986), (22, 10010), (24, 10121),

Gene: Bonray_32 Start: 10906, Stop: 11256, Start Num: 5
Candidate Starts for Bonray_32:
(Start: 5 @10906 has 170 MA's), (8, 10954), (12, 11002), (15, 11047), (16, 11053), (20, 11089), (22, 11113), (24, 11224),

Gene: Bowman_31 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Bowman_31:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Bread_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Bread_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Breeniome_32 Start: 9801, Stop: 10151, Start Num: 5
Candidate Starts for Breeniome_32:
(Start: 5 @9801 has 170 MA's), (8, 9849), (12, 9897), (15, 9942), (16, 9948), (20, 9984), (22, 10008), (24, 10119),

Gene: Burrough_32 Start: 10629, Stop: 10979, Start Num: 5
Candidate Starts for Burrough_32:
(Start: 5 @10629 has 170 MA's), (8, 10677), (12, 10725), (15, 10770), (16, 10776), (20, 10812), (22, 10836), (24, 10947),

Gene: Bxz1_32 Start: 11378, Stop: 11728, Start Num: 5
Candidate Starts for Bxz1_32:
(Start: 5 @11378 has 170 MA's), (8, 11426), (12, 11474), (15, 11519), (16, 11525), (20, 11561), (22, 11585), (24, 11696),

Gene: Cactojaque_29 Start: 9497, Stop: 9847, Start Num: 5
Candidate Starts for Cactojaque_29:
(Start: 5 @9497 has 170 MA's), (8, 9545), (12, 9593), (15, 9638), (16, 9644), (20, 9680), (22, 9704), (24, 9815),

Gene: Cali_32 Start: 11939, Stop: 12289, Start Num: 5

Candidate Starts for Cali_32:
(Start: 5 @11939 has 170 MA's), (8, 11987), (12, 12035), (15, 12080), (16, 12086), (20, 12122), (22, 12146), (24, 12257),

Gene: Capablanca_34 Start: 11498, Stop: 11848, Start Num: 5
Candidate Starts for Capablanca_34:
(Start: 5 @11498 has 170 MA's), (8, 11546), (12, 11594), (15, 11639), (16, 11645), (20, 11681), (22, 11705), (24, 11816),

Gene: Caravan_30 Start: 10188, Stop: 10538, Start Num: 5
Candidate Starts for Caravan_30:
(Start: 5 @10188 has 170 MA's), (8, 10236), (12, 10284), (15, 10329), (16, 10335), (20, 10371), (22, 10395), (24, 10506),

Gene: Cardigan_144 Start: 79376, Stop: 79711, Start Num: 4
Candidate Starts for Cardigan_144:
(2, 79316), (Start: 4 @79376 has 2 MA's), (9, 79445), (11, 79460), (19, 79544), (21, 79571), (23, 79610),

Gene: Catera_30 Start: 9796, Stop: 10146, Start Num: 5
Candidate Starts for Catera_30:
(Start: 5 @9796 has 170 MA's), (8, 9844), (12, 9892), (15, 9937), (16, 9943), (20, 9979), (22, 10003), (24, 10114),

Gene: Chargie21_31 Start: 9792, Stop: 10142, Start Num: 5
Candidate Starts for Chargie21_31:
(Start: 5 @9792 has 170 MA's), (8, 9840), (12, 9888), (15, 9933), (16, 9939), (20, 9975), (22, 9999), (24, 10110),

Gene: CharlieB_32 Start: 9937, Stop: 10287, Start Num: 5
Candidate Starts for CharlieB_32:
(Start: 5 @9937 has 170 MA's), (8, 9985), (12, 10033), (15, 10078), (16, 10084), (20, 10120), (22, 10144), (24, 10255),

Gene: ChaylaJr_31 Start: 9879, Stop: 10229, Start Num: 5
Candidate Starts for ChaylaJr_31:
(Start: 5 @9879 has 170 MA's), (8, 9927), (12, 9975), (15, 10020), (16, 10026), (20, 10062), (22, 10086), (24, 10197),

Gene: ChickenPhender_31 Start: 9837, Stop: 10187, Start Num: 5
Candidate Starts for ChickenPhender_31:
(Start: 5 @9837 has 170 MA's), (8, 9885), (12, 9933), (15, 9978), (16, 9984), (20, 10020), (22, 10044), (24, 10155),

Gene: Chilliams_63 Start: 29204, Stop: 29557, Start Num: 6
Candidate Starts for Chilliams_63:
(6, 29204),

Gene: Chomp_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Chomp_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: CindyLou_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for CindyLou_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Cleatunium_28 Start: 10068, Stop: 10418, Start Num: 5
Candidate Starts for Cleatunium_28:
(Start: 5 @10068 has 170 MA's), (8, 10116), (12, 10164), (15, 10209), (16, 10215), (22, 10275), (24, 10386),

Gene: Concombre_31 Start: 11144, Stop: 11494, Start Num: 5
Candidate Starts for Concombre_31:
(Start: 5 @11144 has 170 MA's), (8, 11192), (12, 11240), (15, 11285), (16, 11291), (20, 11327), (22, 11351), (24, 11462),

Gene: DTDevon_33 Start: 11537, Stop: 11887, Start Num: 5
Candidate Starts for DTDevon_33:
(Start: 5 @11537 has 170 MA's), (8, 11585), (12, 11633), (15, 11678), (16, 11684), (20, 11720), (22, 11744), (24, 11855),

Gene: Daffodil_34 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Daffodil_34:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Dandelion_36 Start: 12233, Stop: 12583, Start Num: 5
Candidate Starts for Dandelion_36:
(Start: 5 @12233 has 170 MA's), (8, 12281), (12, 12329), (15, 12374), (16, 12380), (20, 12416), (22, 12440), (24, 12551),

Gene: Darko_31 Start: 10771, Stop: 11121, Start Num: 5
Candidate Starts for Darko_31:
(Start: 5 @10771 has 170 MA's), (8, 10819), (12, 10867), (15, 10912), (16, 10918), (20, 10954), (22, 10978), (24, 11089),

Gene: Delilah_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Delilah_32:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Demodog_30 Start: 11144, Stop: 11494, Start Num: 5
Candidate Starts for Demodog_30:
(Start: 5 @11144 has 170 MA's), (8, 11192), (12, 11240), (15, 11285), (16, 11291), (20, 11327), (22, 11351), (24, 11462),

Gene: Derek_33 Start: 10330, Stop: 10680, Start Num: 5
Candidate Starts for Derek_33:
(Start: 5 @10330 has 170 MA's), (8, 10378), (12, 10426), (15, 10471), (16, 10477), (20, 10513), (22, 10537), (24, 10648),

Gene: Dessert_30 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Dessert_30:

(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Dewdrop_50 Start: 22009, Stop: 22341, Start Num: 3
Candidate Starts for Dewdrop_50:
(Start: 3 @22009 has 2 MA's), (7, 22054), (8, 22063), (10, 22093), (13, 22114), (14, 22123), (18, 22168), (24, 22306),

Gene: Dietrick_27 Start: 9565, Stop: 9915, Start Num: 5
Candidate Starts for Dietrick_27:
(Start: 5 @9565 has 170 MA's), (8, 9613), (12, 9661), (15, 9706), (16, 9712), (22, 9772), (24, 9883),

Gene: DirtMonster_31 Start: 11456, Stop: 11806, Start Num: 5
Candidate Starts for DirtMonster_31:
(Start: 5 @11456 has 170 MA's), (8, 11504), (12, 11552), (15, 11597), (16, 11603), (22, 11663), (24, 11774),

Gene: Domi_27 Start: 10190, Stop: 10540, Start Num: 5
Candidate Starts for Domi_27:
(Start: 5 @10190 has 170 MA's), (8, 10238), (12, 10286), (15, 10331), (16, 10337), (22, 10397), (24, 10508),

Gene: DrPhinkDaddy_32 Start: 10915, Stop: 11265, Start Num: 5
Candidate Starts for DrPhinkDaddy_32:
(Start: 5 @10915 has 170 MA's), (8, 10963), (12, 11011), (15, 11056), (16, 11062), (20, 11098), (22, 11122), (24, 11233),

Gene: Drazdys_32 Start: 10703, Stop: 11053, Start Num: 5
Candidate Starts for Drazdys_32:
(Start: 5 @10703 has 170 MA's), (8, 10751), (12, 10799), (15, 10844), (16, 10850), (20, 10886), (22, 10910), (24, 11021),

Gene: Duckfeet_29 Start: 10109, Stop: 10459, Start Num: 5
Candidate Starts for Duckfeet_29:
(Start: 5 @10109 has 170 MA's), (8, 10157), (12, 10205), (15, 10250), (16, 10256), (20, 10292), (22, 10316), (24, 10427),

Gene: ET08_27 Start: 10374, Stop: 10724, Start Num: 5
Candidate Starts for ET08_27:
(Start: 5 @10374 has 170 MA's), (8, 10422), (12, 10470), (15, 10515), (16, 10521), (20, 10557), (22, 10581), (24, 10692),

Gene: EasyJones_31 Start: 9542, Stop: 9892, Start Num: 5
Candidate Starts for EasyJones_31:
(Start: 5 @9542 has 170 MA's), (8, 9590), (12, 9638), (15, 9683), (16, 9689), (20, 9725), (22, 9749), (24, 9860),

Gene: EggyFarm_36 Start: 11898, Stop: 12248, Start Num: 5
Candidate Starts for EggyFarm_36:
(Start: 5 @11898 has 170 MA's), (8, 11946), (12, 11994), (15, 12039), (16, 12045), (20, 12081), (22, 12105), (24, 12216),

Gene: EmToTheThree_35 Start: 12332, Stop: 12682, Start Num: 5

Candidate Starts for EmToTheThree_35:
(Start: 5 @12332 has 170 MA's), (8, 12380), (12, 12428), (15, 12473), (16, 12479), (20, 12515), (22, 12539), (24, 12650),

Gene: EmmaElysia_30 Start: 9557, Stop: 9907, Start Num: 5
Candidate Starts for EmmaElysia_30:
(Start: 5 @9557 has 170 MA's), (8, 9605), (12, 9653), (15, 9698), (16, 9704), (20, 9740), (22, 9764), (24, 9875),

Gene: Erdmann_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Erdmann_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: ErnieJ_33 Start: 10738, Stop: 11088, Start Num: 5
Candidate Starts for ErnieJ_33:
(Start: 5 @10738 has 170 MA's), (8, 10786), (12, 10834), (15, 10879), (16, 10885), (20, 10921), (22, 10945), (24, 11056),

Gene: Essence_31 Start: 10092, Stop: 10442, Start Num: 5
Candidate Starts for Essence_31:
(Start: 5 @10092 has 170 MA's), (8, 10140), (12, 10188), (15, 10233), (16, 10239), (20, 10275), (22, 10299), (24, 10410),

Gene: Ewok_32 Start: 10921, Stop: 11271, Start Num: 5
Candidate Starts for Ewok_32:
(Start: 5 @10921 has 170 MA's), (8, 10969), (12, 11017), (15, 11062), (16, 11068), (20, 11104), (22, 11128), (24, 11239),

Gene: Fixie_29 Start: 9540, Stop: 9890, Start Num: 5
Candidate Starts for Fixie_29:
(Start: 5 @9540 has 170 MA's), (8, 9588), (12, 9636), (15, 9681), (16, 9687), (20, 9723), (22, 9747), (24, 9858),

Gene: Fludd_31 Start: 9793, Stop: 10143, Start Num: 5
Candidate Starts for Fludd_31:
(Start: 5 @9793 has 170 MA's), (8, 9841), (12, 9889), (15, 9934), (16, 9940), (20, 9976), (22, 10000), (24, 10111),

Gene: Fongie_32 Start: 11453, Stop: 11803, Start Num: 5
Candidate Starts for Fongie_32:
(Start: 5 @11453 has 170 MA's), (8, 11501), (12, 11549), (15, 11594), (16, 11600), (20, 11636), (22, 11660), (24, 11771),

Gene: FoxtrotP1_32 Start: 11246, Stop: 11596, Start Num: 5
Candidate Starts for FoxtrotP1_32:
(Start: 5 @11246 has 170 MA's), (8, 11294), (12, 11342), (15, 11387), (16, 11393), (20, 11429), (22, 11453), (24, 11564),

Gene: FrayBell_38 Start: 12486, Stop: 12836, Start Num: 5
Candidate Starts for FrayBell_38:
(Start: 5 @12486 has 170 MA's), (8, 12534), (12, 12582), (15, 12627), (16, 12633), (22, 12693), (24, 12804),

Gene: FudgeTart_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for FudgeTart_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Gabriel_32 Start: 9792, Stop: 10142, Start Num: 5
Candidate Starts for Gabriel_32:
(Start: 5 @9792 has 170 MA's), (8, 9840), (12, 9888), (15, 9933), (16, 9939), (20, 9975), (22, 9999), (24, 10110),

Gene: Gamgam_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Gamgam_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Ghost_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Ghost_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Gizmo_34 Start: 10920, Stop: 11270, Start Num: 5
Candidate Starts for Gizmo_34:
(Start: 5 @10920 has 170 MA's), (8, 10968), (12, 11016), (15, 11061), (16, 11067), (20, 11103), (22, 11127), (24, 11238),

Gene: GlutenPhree_33 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for GlutenPhree_33:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Grasshills_36 Start: 11898, Stop: 12248, Start Num: 5
Candidate Starts for Grasshills_36:
(Start: 5 @11898 has 170 MA's), (8, 11946), (12, 11994), (15, 12039), (16, 12045), (20, 12081), (22, 12105), (24, 12216),

Gene: Grungle_25 Start: 8489, Stop: 8839, Start Num: 5
Candidate Starts for Grungle_25:
(Start: 5 @8489 has 170 MA's), (8, 8537), (12, 8585), (15, 8630), (16, 8636), (20, 8672), (22, 8696), (24, 8807),

Gene: Guwapp_32 Start: 10330, Stop: 10680, Start Num: 5
Candidate Starts for Guwapp_32:
(Start: 5 @10330 has 170 MA's), (8, 10378), (12, 10426), (15, 10471), (16, 10477), (20, 10513), (22, 10537), (24, 10648),

Gene: Halldule_28 Start: 9159, Stop: 9509, Start Num: 5
Candidate Starts for Halldule_28:
(Start: 5 @9159 has 170 MA's), (8, 9207), (12, 9255), (15, 9300), (16, 9306), (20, 9342), (22, 9366), (24, 9477),

Gene: HyRo_31 Start: 11105, Stop: 11455, Start Num: 5
Candidate Starts for HyRo_31:

(Start: 5 @11105 has 170 MA's), (8, 11153), (12, 11201), (15, 11246), (16, 11252), (20, 11288), (22, 11312), (24, 11423),

Gene: I3_34 Start: 11467, Stop: 11817, Start Num: 5
Candidate Starts for I3_34:
(Start: 5 @11467 has 170 MA's), (8, 11515), (12, 11563), (15, 11608), (16, 11614), (22, 11674), (24, 11785),

Gene: IkeLoa_28 Start: 10216, Stop: 10566, Start Num: 5
Candidate Starts for IkeLoa_28:
(Start: 5 @10216 has 170 MA's), (8, 10264), (12, 10312), (15, 10357), (16, 10363), (20, 10399), (22, 10423), (24, 10534),

Gene: InigoMontoya_33 Start: 10334, Stop: 10684, Start Num: 5
Candidate Starts for InigoMontoya_33:
(Start: 5 @10334 has 170 MA's), (8, 10382), (12, 10430), (15, 10475), (16, 10481), (20, 10517), (22, 10541), (24, 10652),

Gene: InterFolia_39 Start: 13024, Stop: 13374, Start Num: 5
Candidate Starts for InterFolia_39:
(Start: 5 @13024 has 170 MA's), (8, 13072), (12, 13120), (15, 13165), (16, 13171), (20, 13207), (22, 13231), (24, 13342),

Gene: Iota_29 Start: 10453, Stop: 10803, Start Num: 5
Candidate Starts for Iota_29:
(Start: 5 @10453 has 170 MA's), (8, 10501), (12, 10549), (15, 10594), (16, 10600), (20, 10636), (22, 10660), (24, 10771),

Gene: Issimir_32 Start: 10913, Stop: 11263, Start Num: 5
Candidate Starts for Issimir_32:
(Start: 5 @10913 has 170 MA's), (8, 10961), (12, 11009), (15, 11054), (16, 11060), (20, 11096), (22, 11120), (24, 11231),

Gene: Izajani_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Izajani_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: JPickles_30 Start: 9567, Stop: 9917, Start Num: 5
Candidate Starts for JPickles_30:
(Start: 5 @9567 has 170 MA's), (8, 9615), (12, 9663), (15, 9708), (16, 9714), (20, 9750), (22, 9774), (24, 9885),

Gene: Janiyra_32 Start: 10352, Stop: 10702, Start Num: 5
Candidate Starts for Janiyra_32:
(Start: 5 @10352 has 170 MA's), (8, 10400), (12, 10448), (15, 10493), (16, 10499), (20, 10535), (22, 10559), (24, 10670),

Gene: JayJay_35 Start: 10883, Stop: 11233, Start Num: 5
Candidate Starts for JayJay_35:
(Start: 5 @10883 has 170 MA's), (8, 10931), (12, 10979), (15, 11024), (16, 11030), (20, 11066), (22, 11090), (24, 11201),

Gene: Jaygup_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Jaygup_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Jedediah_32 Start: 9838, Stop: 10188, Start Num: 5
Candidate Starts for Jedediah_32:
(Start: 5 @9838 has 170 MA's), (8, 9886), (12, 9934), (15, 9979), (16, 9985), (20, 10021), (22, 10045), (24, 10156),

Gene: Jemmno_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Jemmno_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Jessibeth14_31 Start: 10638, Stop: 10988, Start Num: 5
Candidate Starts for Jessibeth14_31:
(Start: 5 @10638 has 170 MA's), (8, 10686), (12, 10734), (15, 10779), (16, 10785), (20, 10821), (22, 10845), (24, 10956),

Gene: Jezreel_31 Start: 10387, Stop: 10737, Start Num: 5
Candidate Starts for Jezreel_31:
(Start: 5 @10387 has 170 MA's), (8, 10435), (12, 10483), (15, 10528), (16, 10534), (20, 10570), (22, 10594), (24, 10705),

Gene: JigglyPuff_32 Start: 11194, Stop: 11544, Start Num: 5
Candidate Starts for JigglyPuff_32:
(Start: 5 @11194 has 170 MA's), (8, 11242), (12, 11290), (15, 11335), (16, 11341), (20, 11377), (22, 11401), (24, 11512),

Gene: JonJames_140 Start: 79621, Stop: 79956, Start Num: 4
Candidate Starts for JonJames_140:
(Start: 4 @79621 has 2 MA's), (9, 79690), (11, 79705), (19, 79789), (21, 79816), (23, 79855),

Gene: JulietS_27 Start: 8792, Stop: 9142, Start Num: 5
Candidate Starts for JulietS_27:
(Start: 5 @8792 has 170 MA's), (8, 8840), (12, 8888), (15, 8933), (16, 8939), (20, 8975), (22, 8999), (24, 9110),

Gene: JustHall_31 Start: 10818, Stop: 11168, Start Num: 5
Candidate Starts for JustHall_31:
(Start: 5 @10818 has 170 MA's), (8, 10866), (12, 10914), (15, 10959), (16, 10965), (20, 11001), (22, 11025), (24, 11136),

Gene: Kamryn_32 Start: 10691, Stop: 11041, Start Num: 5
Candidate Starts for Kamryn_32:
(Start: 5 @10691 has 170 MA's), (8, 10739), (12, 10787), (15, 10832), (16, 10838), (20, 10874), (22, 10898), (24, 11009),

Gene: Kboogie_32 Start: 9848, Stop: 10198, Start Num: 5
Candidate Starts for Kboogie_32:
(Start: 5 @9848 has 170 MA's), (8, 9896), (12, 9944), (15, 9989), (16, 9995), (20, 10031), (22, 10055), (24, 10166),

Gene: Khaleesi_31 Start: 10665, Stop: 11015, Start Num: 5
Candidate Starts for Khaleesi_31:
(Start: 5 @10665 has 170 MA's), (8, 10713), (12, 10761), (15, 10806), (16, 10812), (20, 10848), (22, 10872), (24, 10983),

Gene: Koguma_28 Start: 9135, Stop: 9485, Start Num: 5
Candidate Starts for Koguma_28:
(Start: 5 @9135 has 170 MA's), (8, 9183), (12, 9231), (15, 9276), (16, 9282), (20, 9318), (22, 9342), (24, 9453),

Gene: LRRHood_29 Start: 11058, Stop: 11408, Start Num: 5
Candidate Starts for LRRHood_29:
(Start: 5 @11058 has 170 MA's), (8, 11106), (12, 11154), (15, 11199), (16, 11205), (20, 11241), (22, 11265), (24, 11376),

Gene: Labradorite_31 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Labradorite_31:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Latch_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Latch_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Leaf_50 Start: 22009, Stop: 22341, Start Num: 3
Candidate Starts for Leaf_50:
(Start: 3 @22009 has 2 MA's), (7, 22054), (8, 22063), (10, 22093), (13, 22114), (14, 22123), (18, 22168), (24, 22306),

Gene: Lee7_31 Start: 10915, Stop: 11265, Start Num: 5
Candidate Starts for Lee7_31:
(Start: 5 @10915 has 170 MA's), (8, 10963), (12, 11011), (15, 11056), (16, 11062), (20, 11098), (22, 11122), (24, 11233),

Gene: Lethe_31 Start: 10609, Stop: 10959, Start Num: 5
Candidate Starts for Lethe_31:
(Start: 5 @10609 has 170 MA's), (8, 10657), (12, 10705), (15, 10750), (16, 10756), (20, 10792), (22, 10816), (24, 10927),

Gene: LifeSavor_33 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for LifeSavor_33:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Littleton_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Littleton_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Loanshark_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Loanshark_32:

(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: LolaVinca_35 Start: 12130, Stop: 12480, Start Num: 5
Candidate Starts for LolaVinca_35:
(Start: 5 @12130 has 170 MA's), (8, 12178), (12, 12226), (15, 12271), (16, 12277), (20, 12313), (22, 12337), (24, 12448),

Gene: LookingGlass_35 Start: 11689, Stop: 12039, Start Num: 5
Candidate Starts for LookingGlass_35:
(Start: 5 @11689 has 170 MA's), (8, 11737), (12, 11785), (15, 11830), (16, 11836), (20, 11872), (22, 11896), (24, 12007),

Gene: LordLeafolot_38 Start: 12485, Stop: 12835, Start Num: 5
Candidate Starts for LordLeafolot_38:
(Start: 5 @12485 has 170 MA's), (8, 12533), (12, 12581), (15, 12626), (16, 12632), (22, 12692), (24, 12803),

Gene: Lukilu_25 Start: 9509, Stop: 9859, Start Num: 5
Candidate Starts for Lukilu_25:
(Start: 5 @9509 has 170 MA's), (8, 9557), (12, 9605), (15, 9650), (16, 9656), (20, 9692), (22, 9716), (24, 9827),

Gene: Lunareta_31 Start: 10649, Stop: 10999, Start Num: 5
Candidate Starts for Lunareta_31:
(Start: 5 @10649 has 170 MA's), (8, 10697), (12, 10745), (15, 10790), (16, 10796), (20, 10832), (22, 10856), (24, 10967),

Gene: Maby2021_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Maby2021_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Mangeria_35 Start: 11441, Stop: 11791, Start Num: 5
Candidate Starts for Mangeria_35:
(Start: 5 @11441 has 170 MA's), (8, 11489), (12, 11537), (15, 11582), (16, 11588), (20, 11624), (22, 11648), (24, 11759),

Gene: Matsumoto_31 Start: 10334, Stop: 10684, Start Num: 5
Candidate Starts for Matsumoto_31:
(Start: 5 @10334 has 170 MA's), (8, 10382), (12, 10430), (15, 10475), (16, 10481), (20, 10517), (22, 10541), (24, 10652),

Gene: Maturis_32 Start: 10688, Stop: 11038, Start Num: 5
Candidate Starts for Maturis_32:
(Start: 5 @10688 has 170 MA's), (8, 10736), (12, 10784), (15, 10829), (16, 10835), (20, 10871), (22, 10895), (24, 11006),

Gene: McGee_31 Start: 9557, Stop: 9907, Start Num: 5
Candidate Starts for McGee_31:
(Start: 5 @9557 has 170 MA's), (8, 9605), (12, 9653), (15, 9698), (16, 9704), (20, 9740), (22, 9764), (24, 9875),

Gene: McWolfish_31 Start: 10665, Stop: 11015, Start Num: 5
Candidate Starts for McWolfish_31:
(Start: 5 @10665 has 170 MA's), (8, 10713), (12, 10761), (15, 10806), (16, 10812), (20, 10848), (22, 10872), (24, 10983),

Gene: Megamind_32 Start: 10903, Stop: 11253, Start Num: 5
Candidate Starts for Megamind_32:
(Start: 5 @10903 has 170 MA's), (8, 10951), (12, 10999), (15, 11044), (16, 11050), (20, 11086), (22, 11110), (24, 11221),

Gene: Melpomini_31 Start: 9775, Stop: 10125, Start Num: 5
Candidate Starts for Melpomini_31:
(Start: 5 @9775 has 170 MA's), (8, 9823), (12, 9871), (15, 9916), (16, 9922), (20, 9958), (22, 9982), (24, 10093),

Gene: MikeLiesIn_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for MikeLiesIn_32:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Mikro_30 Start: 11404, Stop: 11754, Start Num: 5
Candidate Starts for Mikro_30:
(Start: 5 @11404 has 170 MA's), (8, 11452), (12, 11500), (15, 11545), (16, 11551), (20, 11587), (22, 11611), (24, 11722),

Gene: MoMoMixon_33 Start: 11232, Stop: 11582, Start Num: 5
Candidate Starts for MoMoMixon_33:
(Start: 5 @11232 has 170 MA's), (8, 11280), (12, 11328), (15, 11373), (16, 11379), (20, 11415), (22, 11439), (24, 11550),

Gene: Momo_31 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Momo_31:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Montpel_31 Start: 10649, Stop: 10999, Start Num: 5
Candidate Starts for Montpel_31:
(Start: 5 @10649 has 170 MA's), (8, 10697), (12, 10745), (15, 10790), (16, 10796), (20, 10832), (22, 10856), (24, 10967),

Gene: Morizzled23_31 Start: 9769, Stop: 10119, Start Num: 5
Candidate Starts for Morizzled23_31:
(Start: 5 @9769 has 170 MA's), (8, 9817), (12, 9865), (15, 9910), (16, 9916), (20, 9952), (22, 9976), (24, 10087),

Gene: Naija_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Naija_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Napoleon13_31 Start: 9788, Stop: 10138, Start Num: 5
Candidate Starts for Napoleon13_31:

(Start: 5 @9788 has 170 MA's), (8, 9836), (12, 9884), (15, 9929), (16, 9935), (20, 9971), (22, 9995), (24, 10106),

Gene: Nappy_33 Start: 11083, Stop: 11433, Start Num: 5
Candidate Starts for Nappy_33:
(Start: 5 @11083 has 170 MA's), (8, 11131), (12, 11179), (15, 11224), (16, 11230), (20, 11266), (22, 11290), (24, 11401),

Gene: Naval22_34 Start: 10958, Stop: 11308, Start Num: 5
Candidate Starts for Naval22_34:
(Start: 5 @10958 has 170 MA's), (8, 11006), (12, 11054), (15, 11099), (16, 11105), (20, 11141), (22, 11165), (24, 11276),

Gene: NedWong_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for NedWong_33:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Ngannou_30 Start: 9549, Stop: 9899, Start Num: 5
Candidate Starts for Ngannou_30:
(Start: 5 @9549 has 170 MA's), (8, 9597), (12, 9645), (15, 9690), (16, 9696), (20, 9732), (22, 9756), (24, 9867),

Gene: Nidhogg_33 Start: 10982, Stop: 11332, Start Num: 5
Candidate Starts for Nidhogg_33:
(Start: 5 @10982 has 170 MA's), (8, 11030), (12, 11078), (15, 11123), (16, 11129), (20, 11165), (22, 11189), (24, 11300),

Gene: NoodleTree_31 Start: 10680, Stop: 11030, Start Num: 5
Candidate Starts for NoodleTree_31:
(Start: 5 @10680 has 170 MA's), (8, 10728), (12, 10776), (15, 10821), (16, 10827), (20, 10863), (22, 10887), (24, 10998),

Gene: Norm_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Norm_32:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: NuevoMundo_35 Start: 11972, Stop: 12322, Start Num: 5
Candidate Starts for NuevoMundo_35:
(Start: 5 @11972 has 170 MA's), (8, 12020), (12, 12068), (15, 12113), (16, 12119), (20, 12155), (22, 12179), (24, 12290),

Gene: OrediggerDelux_31 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for OrediggerDelux_31:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: ParkTD_31 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for ParkTD_31:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Patter_32 Start: 10390, Stop: 10740, Start Num: 5
Candidate Starts for Patter_32:
(Start: 5 @10390 has 170 MA's), (8, 10438), (12, 10486), (15, 10531), (16, 10537), (20, 10573), (22, 10597), (24, 10708),

Gene: PharkleMinkus_37 Start: 12486, Stop: 12836, Start Num: 5
Candidate Starts for PharkleMinkus_37:
(Start: 5 @12486 has 170 MA's), (8, 12534), (12, 12582), (15, 12627), (16, 12633), (22, 12693), (24, 12804),

Gene: Phlegm_34 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Phlegm_34:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Phox_31 Start: 11082, Stop: 11432, Start Num: 5
Candidate Starts for Phox_31:
(Start: 5 @11082 has 170 MA's), (8, 11130), (12, 11178), (15, 11223), (16, 11229), (20, 11265), (22, 11289), (24, 11400),

Gene: Phusco_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Phusco_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Pier_34 Start: 11076, Stop: 11426, Start Num: 5
Candidate Starts for Pier_34:
(Start: 5 @11076 has 170 MA's), (8, 11124), (12, 11172), (15, 11217), (16, 11223), (20, 11259), (22, 11283), (24, 11394),

Gene: Pio_35 Start: 11767, Stop: 12117, Start Num: 5
Candidate Starts for Pio_35:
(Start: 5 @11767 has 170 MA's), (8, 11815), (12, 11863), (15, 11908), (16, 11914), (20, 11950), (22, 11974), (24, 12085),

Gene: Pivoine_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for Pivoine_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Pleione_34 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Pleione_34:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Primadonna_27 Start: 10022, Stop: 10372, Start Num: 5
Candidate Starts for Primadonna_27:
(Start: 5 @10022 has 170 MA's), (8, 10070), (12, 10118), (15, 10163), (16, 10169), (22, 10229), (24, 10340),

Gene: PurduePete_31 Start: 10629, Stop: 10979, Start Num: 5
Candidate Starts for PurduePete_31:

(Start: 5 @10629 has 170 MA's), (8, 10677), (12, 10725), (15, 10770), (16, 10776), (20, 10812), (22, 10836), (24, 10947),

Gene: QBert_30 Start: 11082, Stop: 11432, Start Num: 5
Candidate Starts for QBert_30:
(Start: 5 @11082 has 170 MA's), (8, 11130), (12, 11178), (15, 11223), (16, 11229), (20, 11265), (22, 11289), (24, 11400),

Gene: Quasimodo_32 Start: 11333, Stop: 11683, Start Num: 5
Candidate Starts for Quasimodo_32:
(Start: 5 @11333 has 170 MA's), (8, 11381), (12, 11429), (15, 11474), (16, 11480), (20, 11516), (22, 11540), (24, 11651),

Gene: Rahel_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Rahel_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Rizal_30 Start: 9835, Stop: 10185, Start Num: 5
Candidate Starts for Rizal_30:
(Start: 5 @9835 has 170 MA's), (8, 9883), (12, 9931), (15, 9976), (16, 9982), (20, 10018), (22, 10042), (24, 10153),

Gene: RoMag_27 Start: 10167, Stop: 10517, Start Num: 5
Candidate Starts for RoMag_27:
(Start: 5 @10167 has 170 MA's), (8, 10215), (12, 10263), (15, 10308), (16, 10314), (20, 10350), (22, 10374), (24, 10485),

Gene: Rocha_30 Start: 9863, Stop: 10213, Start Num: 5
Candidate Starts for Rocha_30:
(Start: 5 @9863 has 170 MA's), (8, 9911), (12, 9959), (15, 10004), (16, 10010), (20, 10046), (22, 10070), (24, 10181),

Gene: Ronan_27 Start: 8475, Stop: 8825, Start Num: 5
Candidate Starts for Ronan_27:
(Start: 5 @8475 has 170 MA's), (8, 8523), (12, 8571), (15, 8616), (16, 8622), (20, 8658), (22, 8682), (24, 8793),

Gene: Roots515_32 Start: 10917, Stop: 11267, Start Num: 5
Candidate Starts for Roots515_32:
(Start: 5 @10917 has 170 MA's), (8, 10965), (12, 11013), (15, 11058), (16, 11064), (20, 11100), (22, 11124), (24, 11235),

Gene: SVoro_31 Start: 10912, Stop: 11262, Start Num: 5
Candidate Starts for SVoro_31:
(Start: 5 @10912 has 170 MA's), (8, 10960), (12, 11008), (15, 11053), (16, 11059), (20, 11095), (22, 11119), (24, 11230),

Gene: Salacia_34 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for Salacia_34:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Sauce_33 Start: 11045, Stop: 11395, Start Num: 5
Candidate Starts for Sauce_33:
(Start: 5 @11045 has 170 MA's), (8, 11093), (12, 11141), (15, 11186), (16, 11192), (20, 11228), (22, 11252), (24, 11363),

Gene: ScottMcG_32 Start: 11225, Stop: 11575, Start Num: 5
Candidate Starts for ScottMcG_32:
(Start: 5 @11225 has 170 MA's), (8, 11273), (12, 11321), (15, 11366), (16, 11372), (20, 11408), (22, 11432), (24, 11543),

Gene: Sebata_32 Start: 11268, Stop: 11618, Start Num: 5
Candidate Starts for Sebata_32:
(Start: 5 @11268 has 170 MA's), (8, 11316), (12, 11364), (15, 11409), (16, 11415), (20, 11451), (22, 11475), (24, 11586),

Gene: Shaqnato_28 Start: 9480, Stop: 9830, Start Num: 5
Candidate Starts for Shaqnato_28:
(Start: 5 @9480 has 170 MA's), (8, 9528), (12, 9576), (15, 9621), (16, 9627), (20, 9663), (22, 9687), (24, 9798),

Gene: ShiaLabeouf_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for ShiaLabeouf_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Shifa_29 Start: 10551, Stop: 10901, Start Num: 5
Candidate Starts for Shifa_29:
(Start: 5 @10551 has 170 MA's), (8, 10599), (12, 10647), (15, 10692), (16, 10698), (20, 10734), (22, 10758), (24, 10869),

Gene: Shnickers_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Shnickers_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Shrimp_32 Start: 10922, Stop: 11272, Start Num: 5
Candidate Starts for Shrimp_32:
(Start: 5 @10922 has 170 MA's), (8, 10970), (12, 11018), (15, 11063), (16, 11069), (20, 11105), (22, 11129), (24, 11240),

Gene: SilverDipper_33 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for SilverDipper_33:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: SmallFry_32 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for SmallFry_32:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Spec_30 Start: 10375, Stop: 10725, Start Num: 5
Candidate Starts for Spec_30:

(Start: 5 @10375 has 170 MA's), (8, 10423), (12, 10471), (15, 10516), (16, 10522), (20, 10558), (22, 10582), (24, 10693),

Gene: Specks_37 Start: 12207, Stop: 12557, Start Num: 5
Candidate Starts for Specks_37:
(Start: 5 @12207 has 170 MA's), (8, 12255), (12, 12303), (15, 12348), (16, 12354), (20, 12390), (22, 12414), (24, 12525),

Gene: Sprinklers_32 Start: 10407, Stop: 10757, Start Num: 5
Candidate Starts for Sprinklers_32:
(Start: 5 @10407 has 170 MA's), (8, 10455), (12, 10503), (15, 10548), (16, 10554), (20, 10590), (22, 10614), (24, 10725),

Gene: Spud_34 Start: 11764, Stop: 12114, Start Num: 5
Candidate Starts for Spud_34:
(Start: 5 @11764 has 170 MA's), (8, 11812), (12, 11860), (15, 11905), (16, 11911), (20, 11947), (22, 11971), (24, 12082),

Gene: SrishMeg2525_31 Start: 10629, Stop: 10979, Start Num: 5
Candidate Starts for SrishMeg2525_31:
(Start: 5 @10629 has 170 MA's), (8, 10677), (12, 10725), (15, 10770), (16, 10776), (20, 10812), (22, 10836), (24, 10947),

Gene: StephanieG_32 Start: 11098, Stop: 11448, Start Num: 5
Candidate Starts for StephanieG_32:
(Start: 5 @11098 has 170 MA's), (8, 11146), (12, 11194), (15, 11239), (16, 11245), (20, 11281), (22, 11305), (24, 11416),

Gene: StubbySaigey_31 Start: 9558, Stop: 9908, Start Num: 5
Candidate Starts for StubbySaigey_31:
(Start: 5 @9558 has 170 MA's), (8, 9606), (12, 9654), (15, 9699), (16, 9705), (20, 9741), (22, 9765), (24, 9876),

Gene: Substance289_29 Start: 9843, Stop: 10193, Start Num: 5
Candidate Starts for Substance289_29:
(Start: 5 @9843 has 170 MA's), (8, 9891), (12, 9939), (15, 9984), (16, 9990), (20, 10026), (22, 10050), (24, 10161),

Gene: Tainan_37 Start: 12485, Stop: 12835, Start Num: 5
Candidate Starts for Tainan_37:
(Start: 5 @12485 has 170 MA's), (8, 12533), (12, 12581), (15, 12626), (16, 12632), (22, 12692), (24, 12803),

Gene: Teardrop_31 Start: 9834, Stop: 10184, Start Num: 5
Candidate Starts for Teardrop_31:
(Start: 5 @9834 has 170 MA's), (8, 9882), (12, 9930), (15, 9975), (16, 9981), (20, 10017), (22, 10041), (24, 10152),

Gene: TinyTim_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for TinyTim_32:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: Tonenili_36 Start: 12007, Stop: 12357, Start Num: 5
Candidate Starts for Tonenili_36:
(1, 11887), (Start: 5 @12007 has 170 MA's), (8, 12055), (12, 12103), (15, 12148), (16, 12154), (22, 12214), (24, 12325),

Gene: Tortoise16_31 Start: 10369, Stop: 10719, Start Num: 5
Candidate Starts for Tortoise16_31:
(Start: 5 @10369 has 170 MA's), (8, 10417), (12, 10465), (15, 10510), (16, 10516), (20, 10552), (22, 10576), (24, 10687),

Gene: Trinitium_31 Start: 9823, Stop: 10173, Start Num: 5
Candidate Starts for Trinitium_31:
(Start: 5 @9823 has 170 MA's), (8, 9871), (12, 9919), (15, 9964), (16, 9970), (20, 10006), (22, 10030), (24, 10141),

Gene: Turret_30 Start: 9546, Stop: 9896, Start Num: 5
Candidate Starts for Turret_30:
(Start: 5 @9546 has 170 MA's), (8, 9594), (12, 9642), (15, 9687), (16, 9693), (20, 9729), (22, 9753), (24, 9864),

Gene: Tyke_34 Start: 11781, Stop: 12131, Start Num: 5
Candidate Starts for Tyke_34:
(Start: 5 @11781 has 170 MA's), (8, 11829), (12, 11877), (15, 11922), (16, 11928), (20, 11964), (22, 11988), (24, 12099),

Gene: ValleyTerrace_32 Start: 10373, Stop: 10723, Start Num: 5
Candidate Starts for ValleyTerrace_32:
(Start: 5 @10373 has 170 MA's), (8, 10421), (12, 10469), (15, 10514), (16, 10520), (20, 10556), (22, 10580), (24, 10691),

Gene: Vortrix_38 Start: 12468, Stop: 12818, Start Num: 5
Candidate Starts for Vortrix_38:
(1, 12348), (Start: 5 @12468 has 170 MA's), (8, 12516), (12, 12564), (15, 12609), (16, 12615), (22, 12675), (24, 12786),

Gene: Wally_31 Start: 9790, Stop: 10140, Start Num: 5
Candidate Starts for Wally_31:
(Start: 5 @9790 has 170 MA's), (8, 9838), (12, 9886), (15, 9931), (16, 9937), (20, 9973), (22, 9997), (24, 10108),

Gene: Willis_32 Start: 10813, Stop: 11163, Start Num: 5
Candidate Starts for Willis_32:
(Start: 5 @10813 has 170 MA's), (8, 10861), (12, 10909), (15, 10954), (16, 10960), (20, 10996), (22, 11020), (24, 11131),

Gene: Yassified_29 Start: 9570, Stop: 9920, Start Num: 5
Candidate Starts for Yassified_29:
(Start: 5 @9570 has 170 MA's), (8, 9618), (12, 9666), (15, 9711), (16, 9717), (20, 9753), (22, 9777), (24, 9888),

Gene: YemiJoy2021_33 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for YemiJoy2021_33:

(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),

Gene: YoungMoneyMata_32 Start: 10124, Stop: 10474, Start Num: 5
Candidate Starts for YoungMoneyMata_32:
(Start: 5 @10124 has 170 MA's), (8, 10172), (12, 10220), (15, 10265), (16, 10271), (20, 10307), (22, 10331), (24, 10442),

Gene: Yucca_32 Start: 10840, Stop: 11190, Start Num: 5
Candidate Starts for Yucca_32:
(Start: 5 @10840 has 170 MA's), (8, 10888), (12, 10936), (15, 10981), (16, 10987), (20, 11023), (22, 11047), (24, 11158),

Gene: Yvonnetastic_137 Start: 76255, Stop: 76590, Start Num: 4
Candidate Starts for Yvonnetastic_137:
(Start: 4 @76255 has 2 MA's), (9, 76324), (11, 76339), (17, 76396), (19, 76423), (23, 76489),

Gene: Zalkecks_34 Start: 10922, Stop: 11272, Start Num: 5
Candidate Starts for Zalkecks_34:
(Start: 5 @10922 has 170 MA's), (8, 10970), (12, 11018), (15, 11063), (16, 11069), (20, 11105), (22, 11129), (24, 11240),

Gene: Zeenon_34 Start: 10904, Stop: 11254, Start Num: 5
Candidate Starts for Zeenon_34:
(Start: 5 @10904 has 170 MA's), (8, 10952), (12, 11000), (15, 11045), (16, 11051), (20, 11087), (22, 11111), (24, 11222),

Gene: ZygoTaiga_32 Start: 10918, Stop: 11268, Start Num: 5
Candidate Starts for ZygoTaiga_32:
(Start: 5 @10918 has 170 MA's), (8, 10966), (12, 11014), (15, 11059), (16, 11065), (20, 11101), (22, 11125), (24, 11236),