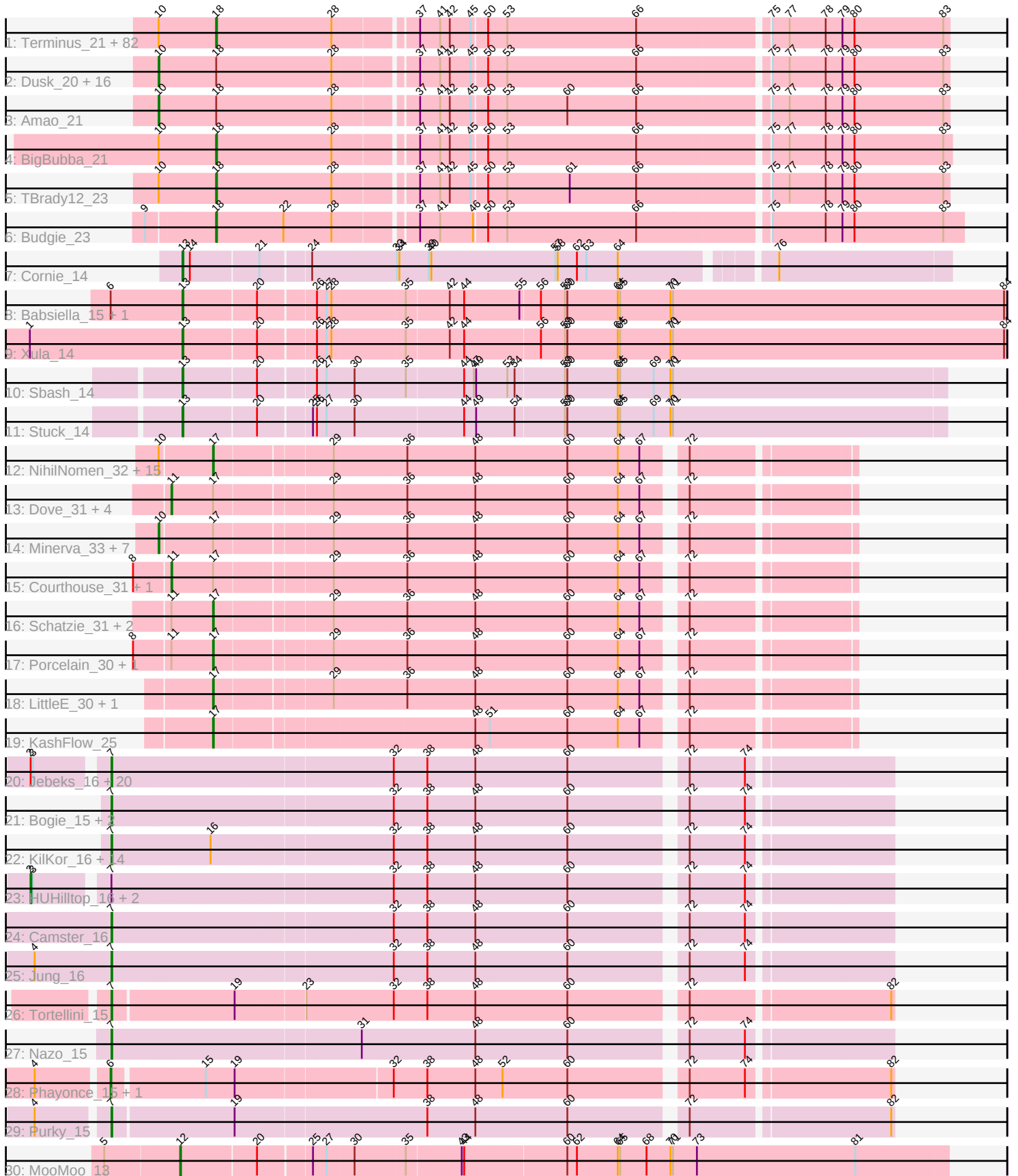


Pham 330501



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 330501 Report

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

Pham number 330501 has 199 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Terminus_21, Goldilocks_22, Balomaji_20, Brewer_21, BadStone_20, Gage_23, Inca_20, Command613_22, Tuco_21, ChosenOne_20, DoctorDiddles_21, Cactus_22, Henry_20, Gemini_23, ChotaBhai_21, Holt_22, JeTaime_23, Filch_22, Moldemort_22, Emmina_21, Paperbeatsrock_23, NonchalantPear_21, Stank_23, Palpatine_20, Policronamos_20, Highbury_22, Saints25_22, Kimchi_23, Harella_19, ShereKhan_23, Lilpickle_20, Icee_20, Argent26_23, Xandras_23, TeamEdward_21, MISSy_20, FireRed_20, Barbarian_20, MollyToe_21, Easy2Say_22, ShamWow_21, YassJohnny_21, Traaww1_18, StolenFromERC_23, Qualification_22, Rimmer_20, Sotrice96_21, MadamMonkfish_21, Thimble_21, NelitzaMV_21, NoSleep_22, xkcd_21, BilboSwaggins_21, Youngblood_21, Adnama_23, TeardropMSU_20, GoldenSpark_23, Simpliphy_22, Murica_19, OrionPax_22, Marshmallow_21, HanKaySha_22, AmericanBeauty_23, Wiggin_23, Flypotenuse_19, Buck_20, Sassay_20, Elite2014_20, Willez_20, Bench_23, Hoonter_23, Stark_22, Miniwave_21, Asriel_20, GooberAzure_23, Thresher_22, FairyPath_21, Tomaszewski_20, Tarkin_23, Lilizi_23, MPhalcon_20, Misfit_21, Cookies_21
- Track 2 : Dusk_20, Pharsalus_22, Phaja_20, Gator_19, Myrale_21, ABCat_20, Nimrod_21, StellaBean_21, Czystczon1_22, Kanye_23, IHOP_20, SophKB_21, Teaspoon_21, CrystalP_21, Glexan_19, Hopey_22, Maxxinista_22
- Track 3 : Amao_21
- Track 4 : BigBubba_21
- Track 5 : TBrady12_23
- Track 6 : Budgie_23
- Track 7 : Cornie_14
- Track 8 : Babsiella_15, QueenHazel_15
- Track 9 : Xula_14
- Track 10 : Sbash_14
- Track 11 : Stuck_14
- Track 12 : NihilNomen_32, Phoebus_33, Optimus_31, Dallas_33, HokkenD_28, ThreeRngTarjay_32, Yeet_31, Constella_28, Hidrated_33, EricMillard_33, Klein_33, Zelink_34, DmpstrDiver_32, Ejimix_34, Beem_33, Thibault_29
- Track 13 : Dove_31, Ariel_31, Hughesyang_32, Lucky2013_31, Bobby_34
- Track 14 : Minerva_33, Duke13_30, Wanda_34, Halley_33, Kalah2_34, Redno2_32, BAKA_29, JuicyJay_34
- Track 15 : Courthouse_31, MiaZeal_30
- Track 16 : Schatzie_31, Squint_30, Bombitas_30
- Track 17 : Porcelain_30, Superphikiman_31
- Track 18 : LittleE_30, Hannaconda_28

- Track 19 : KashFlow_25
- Track 20 : Jebeks_16, Etoile_16, Kari_16, Xavia_16, Bhagsy_16, Ksquared_15, Necropolis_16, Fishburne_16, Bunnies_16, Bartholomew_16, Thespis_16, Venti_16, Brusacoram_16, Langerak_16, GreaseLightnin_16, Phineas_16, Willsammy_16, StevieRay_16, Zilizebeth_16, Atcoo_16, Juniormint_16
- Track 21 : Bogie_15, Shipwreck_15, Pygmy_15
- Track 22 : KilKor_16, Phalm_16, Mangethe_16, Sonah_16, StressBall_16, Megiddo_16, Glaske_16, Techage_16, Arib1_16, Gavriela_16, CactusJack_16, Malithi_16, Phegasus_16, Donovan_16, Majeke_16
- Track 23 : HUHilltop_16, Dynamo_16, FirstPlacePfu_16
- Track 24 : Camster_16
- Track 25 : Jung_16
- Track 26 : Tortellini_15
- Track 27 : Nazo_15
- Track 28 : Phayonce_15, ThulaThula_15
- Track 29 : Purky_15
- Track 30 : MooMoo_13

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

The start number called the most often in the published annotations is 18, it was called in 86 of the 199 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_23, AmericanBeauty_23, Argent26_23, Asriel_20, BadStone_20, Balomoji_20, Barbarian_20, Bench_23, BigBubba_21, BilboSwaggins_21, Brewer_21, Buck_20, Budgie_23, Cactus_22, ChosenOne_20, ChotaBhai_21, Command613_22, Cookies_21, DoctorDiddles_21, Easy2Say_22, Elite2014_20, Emmina_21, FairyPath_21, Filch_22, FireRed_20, Flypotenuse_19, Gage_23, Gemini_23, GoldenSpark_23, Goldilocks_22, GooberAzure_23, HanKaySha_22, Harella_19, Henry_20, Highbury_22, Holt_22, Hoonter_23, Icee_20, Inca_20, JeTaime_23, Kimchi_23, Lilizi_23, Lilpickle_20, MISSy_20, MPhalcon_20, MadamMonkfish_21, Marshmallow_21, Miniwave_21, Misfit_21, Moldemort_22, MollyToe_21, Murica_19, NelitzaMV_21, NoSleep_22, NonchalantPear_21, OrionPax_22, Palpatine_20, Paperbeatsrock_23, Policronamos_20, Quallification_22, Rimmer_20, Saints25_22, Sassay_20, ShamWow_21, ShereKhan_23, Simpliphy_22, Sotrice96_21, Stank_23, Stark_22, StolenFromERC_23, TBrady12_23, Tarkin_23, TeamEdward_21, TeardropMSU_20, Terminus_21, Thimble_21, Thresher_22, Tomaszewski_20, Traaww1_18, Tuco_21, Wiggins_23, Willez_20, Xandras_23, YassJohnny_21, Youngblood_21, xkcd_21,

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

- ABCat_20, Amao_21, CrystalP_21, Czyszczonek_22, Dusk_20, Gator_19, Glexan_19, Hopey_22, IHOP_20, Kanye_23, Maxxinista_22, Myrale_21, Nimrod_21, Phaja_20, Pharsalus_22, SophKB_21, StellaBean_21, Teaspoon_21,

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

- Arib1_16, Ariel_31, Atcoo_16, BAKA_29, Babsiella_15, Bartholomew_16, Beem_33, Bhagsy_16, Bobby_34, Bogie_15, Bombitas_30, Brusacoram_16, Bunnies_16, CactusJack_16, Camster_16, Constella_28, Cornie_14, Courthouse_31, Dallas_33,

DmpstrDiver_32, Donovan_16, Dove_31, Duke13_30, Dynamo_16, Ejimix_34, EricMillard_33, Etoile_16, FirstPlacePfu_16, Fishburne_16, Gavriela_16, Glaske_16, GreaseLightnin_16, HUHilltop_16, Halley_33, Hannaconda_28, Hidrated_33, HokkenD_28, Hughesyang_32, Jebeks_16, JuicyJay_34, Jung_16, Juniormint_16, Kalah2_34, Kari_16, KashFlow_25, KilKor_16, Klein_33, Ksquared_15, Langerak_16, LittleE_30, Lucky2013_31, Majeke_16, Malithi_16, Mangethe_16, Megiddo_16, MiaZeal_30, Minerva_33, MooMoo_13, Nazo_15, Necropolis_16, NihilNomen_32, Optimus_31, Phalm_16, Phayonce_15, Phegasus_16, Phineas_16, Phoebus_33, Porcelain_30, Purky_15, Pygmy_15, QueenHazel_15, Redno2_32, Sbash_14, Schatzie_31, Shipwreck_15, Sonah_16, Squint_30, StevieRay_16, StressBall_16, Stuck_14, Superphikiman_31, Techage_16, Thespis_16, Thibault_29, ThreeRngTarjay_32, ThulaThula_15, Tortellini_15, Venti_16, Wanda_34, Willsammy_16, Xavia_16, Xula_14, Yeet_31, Zelink_34, Zilizebeth_16,

Summary by start number:

Start 2:

- Found in 24 of 199 (12.1%) of genes in pham
- Manual Annotations of this start: 3 of 199
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Dynamo_16 (P1), FirstPlacePfu_16 (P1), HUHilltop_16 (P1),

Start 6:

- Found in 4 of 199 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 199
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Phayonce_15 (P5), ThulaThula_15 (P5),

Start 7:

- Found in 47 of 199 (23.6%) of genes in pham
- Manual Annotations of this start: 44 of 199
- Called 93.6% of time when present
- Phage (with cluster) where this start called: Arib1_16 (P1), Atcoo_16 (P1), Bartholomew_16 (P1), Bhagsy_16 (P1), Bogie_15 (P1), Brusacoram_16 (P1), Bunnies_16 (P1), CactusJack_16 (P1), Camster_16 (P1), Donovan_16 (P1), Etoile_16 (P1), Fishburne_16 (P1), Gavriela_16 (P1), Glaske_16 (P1), GreaseLightnin_16 (P1), Jebeks_16 (P1), Jung_16 (P1), Juniormint_16 (P1), Kari_16 (P1), KilKor_16 (P1), Ksquared_15 (P1), Langerak_16 (P1), Majeke_16 (P1), Malithi_16 (P1), Mangethe_16 (P1), Megiddo_16 (P1), Nazo_15 (P4), Necropolis_16 (P1), Phalm_16 (P1), Phegasus_16 (P1), Phineas_16 (P1), Purky_15 (P6), Pygmy_15 (P1), Shipwreck_15 (P1), Sonah_16 (P1), StevieRay_16 (P1), StressBall_16 (P1), Techage_16 (P1), Thespis_16 (P1), Tortellini_15 (P2), Venti_16 (P1), Willsammy_16 (P1), Xavia_16 (P3), Zilizebeth_16 (P1),

Start 10:

- Found in 127 of 199 (63.8%) of genes in pham
- Manual Annotations of this start: 26 of 199
- Called 20.5% of time when present
- Phage (with cluster) where this start called: ABCat_20 (E), Amao_21 (E), BAKA_29 (J), CrystalP_21 (E), Czyszczo1_22 (E), Duke13_30 (J), Dusk_20 (E), Gator_19 (E), Glexan_19 (E), Halley_33 (J), Hopey_22 (E), IHOP_20 (E), JuicyJay_34 (J), Kalah2_34 (J), Kanye_23 (E), Maxxinista_22 (E), Minerva_33 (J), Myrale_21 (E),

Nimrod_21 (E), Phaja_20 (E), Pharsalus_22 (E), Redno2_32 (J), SophKB_21 (E), StellaBean_21 (E), Teaspoon_21 (E), Wanda_34 (J),

Start 11:

- Found in 12 of 199 (6.0%) of genes in pham
- Manual Annotations of this start: 7 of 199
- Called 58.3% of time when present
- Phage (with cluster) where this start called: Ariel_31 (J), Bobby_34 (J), Courthouse_31 (J), Dove_31 (J), Hughesyang_32 (J), Lucky2013_31 (J), MiaZeal_30 (J),

Start 12:

- Found in 1 of 199 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 199
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_13 (singleton),

Start 13:

- Found in 6 of 199 (3.0%) of genes in pham
- Manual Annotations of this start: 6 of 199
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Babsiella_15 (I1), Cornie_14 (F5), QueenHazel_15 (I1), Sbash_14 (I2), Stuck_14 (I2), Xula_14 (I1),

Start 17:

- Found in 39 of 199 (19.6%) of genes in pham
- Manual Annotations of this start: 24 of 199
- Called 61.5% of time when present
- Phage (with cluster) where this start called: Beem_33 (J), Bombitas_30 (J), Constella_28 (J), Dallas_33 (J), DmpstrDiver_32 (J), Ejimix_34 (J), EricMillard_33 (J), Hannaconda_28 (J), Hidrated_33 (J), HokkenD_28 (J), KashFlow_25 (J), Klein_33 (J), LittleE_30 (J), NihilNomen_32 (J), Optimus_31 (J), Phoebus_33 (J), Porcelain_30 (J), Schatzie_31 (J), Squint_30 (J), Superphikiman_31 (J), Thibault_29 (J), ThreeRngTarjay_32 (J), Yeet_31 (J), Zelink_34 (J),

Start 18:

- Found in 104 of 199 (52.3%) of genes in pham
- Manual Annotations of this start: 86 of 199
- Called 82.7% of time when present
- Phage (with cluster) where this start called: Adnama_23 (E), AmericanBeauty_23 (E), Argent26_23 (E), Asriel_20 (E), BadStone_20 (E), Balomoji_20 (E), Barbarian_20 (E), Bench_23 (E), BigBubba_21 (E), BilboSwaggins_21 (E), Brewer_21 (E), Buck_20 (E), Budgie_23 (E), Cactus_22 (E), ChosenOne_20 (E), ChotaBhai_21 (E), Command613_22 (E), Cookies_21 (E), DoctorDiddles_21 (E), Easy2Say_22 (E), Elite2014_20 (E), Emmina_21 (E), FairyPath_21 (E), Filch_22 (E), FireRed_20 (E), Flypotenuse_19 (E), Gage_23 (E), Gemini_23 (E), GoldenSpark_23 (E), Goldilocks_22 (E), GooberAzure_23 (E), HanKaySha_22 (E), Harella_19 (E), Henry_20 (E), Highbury_22 (E), Holt_22 (E), Hoonter_23 (E), Icee_20 (E), Inca_20 (E), JeTaimie_23 (E), Kimchi_23 (E), Lilizi_23 (E), Lilpickle_20 (E), MISSy_20 (E), MPhalcon_20 (E), MadamMonkfish_21 (E), Marshmallow_21 (E), Miniwave_21 (E), Misfit_21 (E), Moldemort_22 (E), MollyToe_21 (E), Murica_19 (E), NelitzaMV_21 (E), NoSleep_22 (E), NonchalantPear_21 (E), OrionPax_22 (E), Palpatine_20 (E), Paperbeatsrock_23 (E), Policronamos_20 (E), Qualification_22 (E), Rimmer_20 (E),

Saints25_22 (E), Sassay_20 (E), ShamWow_21 (E), ShereKhan_23 (E), Simpliphy_22 (E), Sotrice96_21 (E), Stank_23 (E), Stark_22 (E), StolenFromERC_23 (E), TBrady12_23 (E), Tarkin_23 (E), TeamEdward_21 (E), TeardropMSU_20 (E), Terminus_21 (E), Thimble_21 (E), Thresher_22 (E), Tomaszewski_20 (E), Traaww1_18 (E), Tuco_21 (E), Wiggin_23 (E), Willez_20 (E), Xandras_23 (E), YassJohnny_21 (E), Youngblood_21 (E), xkcd_21 (E),

Summary by clusters:

There are 12 clusters represented in this pham: P2, P3, singleton, P1, E, F5, P4, P5, I1, J, P6, I2,

Info for manual annotations of cluster E:

- Start number 10 was manually annotated 18 times for cluster E.
- Start number 18 was manually annotated 86 times for cluster E.

Info for manual annotations of cluster F5:

- Start number 13 was manually annotated 1 time for cluster F5.

Info for manual annotations of cluster I1:

- Start number 13 was manually annotated 3 times for cluster I1.

Info for manual annotations of cluster I2:

- Start number 13 was manually annotated 2 times for cluster I2.

Info for manual annotations of cluster J:

- Start number 10 was manually annotated 8 times for cluster J.
- Start number 11 was manually annotated 7 times for cluster J.
- Start number 17 was manually annotated 24 times for cluster J.

Info for manual annotations of cluster P1:

- Start number 2 was manually annotated 3 times for cluster P1.
- Start number 7 was manually annotated 40 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 7 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 7 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 7 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P5:

- Start number 6 was manually annotated 2 times for cluster P5.

Info for manual annotations of cluster P6:

- Start number 7 was manually annotated 1 time for cluster P6.

Gene Information:

Gene: ABCat_20 Start: 12397, Stop: 13340, Start Num: 10

Candidate Starts for ABCat_20:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Adnama_23 Start: 12463, Stop: 13337, Start Num: 18

Candidate Starts for Adnama_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Amao_21 Start: 11602, Stop: 12545, Start Num: 10

Candidate Starts for Amao_21:

(Start: 10 @11602 has 26 MA's), (Start: 18 @11674 has 86 MA's), (28, 11818), (37, 11911), (41, 11935), (42, 11947), (45, 11971), (50, 11989), (53, 12013), (60, 12088), (66, 12172), (75, 12325), (77, 12346), (78, 12391), (79, 12412), (80, 12427), (83, 12538),

Gene: AmericanBeauty_23 Start: 12460, Stop: 13331, Start Num: 18

Candidate Starts for AmericanBeauty_23:

(Start: 10 @12388 has 26 MA's), (Start: 18 @12460 has 86 MA's), (28, 12604), (37, 12697), (41, 12721), (42, 12733), (45, 12757), (50, 12775), (53, 12799), (66, 12958), (75, 13111), (77, 13132), (78, 13177), (79, 13198), (80, 13213), (83, 13324),

Gene: Argent26_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for Argent26_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Arib1_16 Start: 9932, Stop: 10850, Start Num: 7

Candidate Starts for Arib1_16:

(Start: 7 @9932 has 44 MA's), (16, 10052), (32, 10268), (38, 10310), (48, 10370), (60, 10484), (72, 10616), (74, 10682),

Gene: Ariel_31 Start: 16959, Stop: 17742, Start Num: 11

Candidate Starts for Ariel_31:

(Start: 11 @16959 has 7 MA's), (Start: 17 @17010 has 24 MA's), (29, 17142), (36, 17229), (48, 17313), (60, 17427), (64, 17490), (67, 17517), (72, 17556),

Gene: Asriel_20 Start: 11341, Stop: 12212, Start Num: 18

Candidate Starts for Asriel_20:

(Start: 10 @11269 has 26 MA's), (Start: 18 @11341 has 86 MA's), (28, 11485), (37, 11578), (41, 11602), (42, 11614), (45, 11638), (50, 11656), (53, 11680), (66, 11839), (75, 11992), (77, 12013), (78, 12058), (79, 12079), (80, 12094), (83, 12205),

Gene: Atcoo_16 Start: 9945, Stop: 10863, Start Num: 7

Candidate Starts for Atcoo_16:

(Start: 2 @9864 has 3 MA's), (3, 9867), (Start: 7 @9945 has 44 MA's), (32, 10281), (38, 10323), (48, 10383), (60, 10497), (72, 10629), (74, 10695),

Gene: BAKA_29 Start: 19034, Stop: 19829, Start Num: 10

Candidate Starts for BAKA_29:

(Start: 10 @19034 has 26 MA's), (Start: 17 @19097 has 24 MA's), (29, 19229), (36, 19316), (48, 19400), (60, 19514), (64, 19577), (67, 19604), (72, 19643),

Gene: Babsiella_15 Start: 9775, Stop: 10768, Start Num: 13

Candidate Starts for Babsiella_15:

(Start: 6 @9688 has 2 MA's), (Start: 13 @9775 has 6 MA's), (20, 9859), (26, 9922), (27, 9934), (28, 9940), (35, 10027), (42, 10078), (44, 10096), (55, 10162), (56, 10186), (59, 10216), (60, 10219), (64, 10282), (65, 10285), (70, 10348), (71, 10351), (84, 10765),

Gene: BadStone_20 Start: 12469, Stop: 13340, Start Num: 18

Candidate Starts for BadStone_20:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Balomoji_20 Start: 12203, Stop: 13074, Start Num: 18

Candidate Starts for Balomoji_20:

(Start: 10 @12131 has 26 MA's), (Start: 18 @12203 has 86 MA's), (28, 12347), (37, 12440), (41, 12464), (42, 12476), (45, 12500), (50, 12518), (53, 12542), (66, 12701), (75, 12854), (77, 12875), (78, 12920), (79, 12941), (80, 12956), (83, 13067),

Gene: Barbarian_20 Start: 11341, Stop: 12212, Start Num: 18

Candidate Starts for Barbarian_20:

(Start: 10 @11269 has 26 MA's), (Start: 18 @11341 has 86 MA's), (28, 11485), (37, 11578), (41, 11602), (42, 11614), (45, 11638), (50, 11656), (53, 11680), (66, 11839), (75, 11992), (77, 12013), (78, 12058), (79, 12079), (80, 12094), (83, 12205),

Gene: Bartholomew_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Bartholomew_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Beem_33 Start: 19452, Stop: 20184, Start Num: 17

Candidate Starts for Beem_33:

(Start: 10 @19389 has 26 MA's), (Start: 17 @19452 has 24 MA's), (29, 19584), (36, 19671), (48, 19755), (60, 19869), (64, 19932), (67, 19959), (72, 19998),

Gene: Bench_23 Start: 12336, Stop: 13207, Start Num: 18

Candidate Starts for Bench_23:

(Start: 10 @12264 has 26 MA's), (Start: 18 @12336 has 86 MA's), (28, 12480), (37, 12573), (41, 12597), (42, 12609), (45, 12633), (50, 12651), (53, 12675), (66, 12834), (75, 12987), (77, 13008), (78, 13053), (79, 13074), (80, 13089), (83, 13200),

Gene: Bhagsy_16 Start: 9948, Stop: 10866, Start Num: 7

Candidate Starts for Bhagsy_16:

(Start: 2 @9867 has 3 MA's), (3, 9870), (Start: 7 @9948 has 44 MA's), (32, 10284), (38, 10326), (48, 10386), (60, 10500), (72, 10632), (74, 10698),

Gene: BigBubba_21 Start: 11720, Stop: 12594, Start Num: 18

Candidate Starts for BigBubba_21:

(Start: 10 @11648 has 26 MA's), (Start: 18 @11720 has 86 MA's), (28, 11864), (37, 11957), (41, 11981), (42, 11993), (45, 12017), (50, 12035), (53, 12059), (66, 12218), (75, 12371), (77, 12392), (78, 12437), (79, 12458), (80, 12473), (83, 12584),

Gene: BilboSwaggins_21 Start: 12470, Stop: 13341, Start Num: 18

Candidate Starts for BilboSwaggins_21:

(Start: 10 @12398 has 26 MA's), (Start: 18 @12470 has 86 MA's), (28, 12614), (37, 12707), (41, 12731), (42, 12743), (45, 12767), (50, 12785), (53, 12809), (66, 12968), (75, 13121), (77, 13142), (78, 13187), (79, 13208), (80, 13223), (83, 13334),

Gene: Bobby_34 Start: 19353, Stop: 20136, Start Num: 11

Candidate Starts for Bobby_34:

(Start: 11 @19353 has 7 MA's), (Start: 17 @19404 has 24 MA's), (29, 19536), (36, 19623), (48, 19707), (60, 19821), (64, 19884), (67, 19911), (72, 19950),

Gene: Bogie_15 Start: 9664, Stop: 10582, Start Num: 7

Candidate Starts for Bogie_15:

(Start: 7 @9664 has 44 MA's), (32, 10000), (38, 10042), (48, 10102), (60, 10216), (72, 10348), (74, 10414),

Gene: Bombitas_30 Start: 18761, Stop: 19493, Start Num: 17

Candidate Starts for Bombitas_30:

(Start: 11 @18710 has 7 MA's), (Start: 17 @18761 has 24 MA's), (29, 18893), (36, 18980), (48, 19064), (60, 19178), (64, 19241), (67, 19268), (72, 19307),

Gene: Brewer_21 Start: 12718, Stop: 13589, Start Num: 18

Candidate Starts for Brewer_21:

(Start: 10 @12646 has 26 MA's), (Start: 18 @12718 has 86 MA's), (28, 12862), (37, 12955), (41, 12979), (42, 12991), (45, 13015), (50, 13033), (53, 13057), (66, 13216), (75, 13369), (77, 13390), (78, 13435), (79, 13456), (80, 13471), (83, 13582),

Gene: Brusacoram_16 Start: 9944, Stop: 10862, Start Num: 7

Candidate Starts for Brusacoram_16:

(Start: 2 @9863 has 3 MA's), (3, 9866), (Start: 7 @9944 has 44 MA's), (32, 10280), (38, 10322), (48, 10382), (60, 10496), (72, 10628), (74, 10694),

Gene: Buck_20 Start: 12426, Stop: 13297, Start Num: 18

Candidate Starts for Buck_20:

(Start: 10 @12354 has 26 MA's), (Start: 18 @12426 has 86 MA's), (28, 12570), (37, 12663), (41, 12687), (42, 12699), (45, 12723), (50, 12741), (53, 12765), (66, 12924), (75, 13077), (77, 13098), (78, 13143), (79, 13164), (80, 13179), (83, 13290),

Gene: Budgie_23 Start: 11858, Stop: 12747, Start Num: 18

Candidate Starts for Budgie_23:

(9, 11777), (Start: 18 @11858 has 86 MA's), (22, 11942), (28, 12002), (37, 12095), (41, 12119), (46, 12158), (50, 12173), (53, 12197), (66, 12356), (75, 12509), (78, 12575), (79, 12596), (80, 12611), (83, 12722),

Gene: Bunnies_16 Start: 9957, Stop: 10875, Start Num: 7

Candidate Starts for Bunnies_16:

(Start: 2 @9876 has 3 MA's), (3, 9879), (Start: 7 @9957 has 44 MA's), (32, 10293), (38, 10335), (48, 10395), (60, 10509), (72, 10641), (74, 10707),

Gene: Cactus_22 Start: 11682, Stop: 12553, Start Num: 18

Candidate Starts for Cactus_22:

(Start: 10 @11610 has 26 MA's), (Start: 18 @11682 has 86 MA's), (28, 11826), (37, 11919), (41, 11943), (42, 11955), (45, 11979), (50, 11997), (53, 12021), (66, 12180), (75, 12333), (77, 12354), (78, 12399), (79, 12420), (80, 12435), (83, 12546),

Gene: CactusJack_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for CactusJack_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Camster_16 Start: 9942, Stop: 10860, Start Num: 7

Candidate Starts for Camster_16:

(Start: 7 @9942 has 44 MA's), (32, 10278), (38, 10320), (48, 10380), (60, 10494), (72, 10626), (74, 10692),

Gene: ChosenOne_20 Start: 11683, Stop: 12554, Start Num: 18

Candidate Starts for ChosenOne_20:

(Start: 10 @11611 has 26 MA's), (Start: 18 @11683 has 86 MA's), (28, 11827), (37, 11920), (41, 11944), (42, 11956), (45, 11980), (50, 11998), (53, 12022), (66, 12181), (75, 12334), (77, 12355), (78, 12400), (79, 12421), (80, 12436), (83, 12547),

Gene: ChotaBhai_21 Start: 11719, Stop: 12590, Start Num: 18

Candidate Starts for ChotaBhai_21:

(Start: 10 @11647 has 26 MA's), (Start: 18 @11719 has 86 MA's), (28, 11863), (37, 11956), (41, 11980), (42, 11992), (45, 12016), (50, 12034), (53, 12058), (66, 12217), (75, 12370), (77, 12391), (78, 12436), (79, 12457), (80, 12472), (83, 12583),

Gene: Command613_22 Start: 12738, Stop: 13609, Start Num: 18

Candidate Starts for Command613_22:

(Start: 10 @12666 has 26 MA's), (Start: 18 @12738 has 86 MA's), (28, 12882), (37, 12975), (41, 12999), (42, 13011), (45, 13035), (50, 13053), (53, 13077), (66, 13236), (75, 13389), (77, 13410), (78, 13455), (79, 13476), (80, 13491), (83, 13602),

Gene: Constella_28 Start: 18275, Stop: 19007, Start Num: 17

Candidate Starts for Constella_28:

(Start: 10 @18212 has 26 MA's), (Start: 17 @18275 has 24 MA's), (29, 18407), (36, 18494), (48, 18578), (60, 18692), (64, 18755), (67, 18782), (72, 18821),

Gene: Cookies_21 Start: 12342, Stop: 13213, Start Num: 18

Candidate Starts for Cookies_21:

(Start: 10 @12270 has 26 MA's), (Start: 18 @12342 has 86 MA's), (28, 12486), (37, 12579), (41, 12603), (42, 12615), (45, 12639), (50, 12657), (53, 12681), (66, 12840), (75, 12993), (77, 13014), (78, 13059), (79, 13080), (80, 13095), (83, 13206),

Gene: Cornie_14 Start: 8819, Stop: 9710, Start Num: 13

Candidate Starts for Cornie_14:

(Start: 13 @8819 has 6 MA's), (14, 8828), (21, 8909), (24, 8963), (33, 9062), (34, 9065), (39, 9101), (40, 9104), (57, 9257), (58, 9260), (62, 9284), (63, 9296), (64, 9335), (76, 9500),

Gene: Courthouse_31 Start: 17362, Stop: 18145, Start Num: 11

Candidate Starts for Courthouse_31:

(8, 17320), (Start: 11 @17362 has 7 MA's), (Start: 17 @17413 has 24 MA's), (29, 17545), (36, 17632), (48, 17716), (60, 17830), (64, 17893), (67, 17920), (72, 17959),

Gene: CrystalP_21 Start: 12398, Stop: 13341, Start Num: 10

Candidate Starts for CrystalP_21:

(Start: 10 @12398 has 26 MA's), (Start: 18 @12470 has 86 MA's), (28, 12614), (37, 12707), (41, 12731), (42, 12743), (45, 12767), (50, 12785), (53, 12809), (66, 12968), (75, 13121), (77, 13142), (78, 13187), (79, 13208), (80, 13223), (83, 13334),

Gene: Czyszczone1_22 Start: 12146, Stop: 13089, Start Num: 10

Candidate Starts for Czyszczone1_22:

(Start: 10 @12146 has 26 MA's), (Start: 18 @12218 has 86 MA's), (28, 12362), (37, 12455), (41, 12479), (42, 12491), (45, 12515), (50, 12533), (53, 12557), (66, 12716), (75, 12869), (77, 12890), (78, 12935), (79, 12956), (80, 12971), (83, 13082),

Gene: Dallas_33 Start: 18992, Stop: 19724, Start Num: 17

Candidate Starts for Dallas_33:

(Start: 10 @18929 has 26 MA's), (Start: 17 @18992 has 24 MA's), (29, 19124), (36, 19211), (48, 19295), (60, 19409), (64, 19472), (67, 19499), (72, 19538),

Gene: DmpstrDiver_32 Start: 19628, Stop: 20360, Start Num: 17

Candidate Starts for DmpstrDiver_32:

(Start: 10 @19565 has 26 MA's), (Start: 17 @19628 has 24 MA's), (29, 19760), (36, 19847), (48, 19931), (60, 20045), (64, 20108), (67, 20135), (72, 20174),

Gene: DoctorDiddles_21 Start: 11635, Stop: 12506, Start Num: 18

Candidate Starts for DoctorDiddles_21:

(Start: 10 @11563 has 26 MA's), (Start: 18 @11635 has 86 MA's), (28, 11779), (37, 11872), (41, 11896), (42, 11908), (45, 11932), (50, 11950), (53, 11974), (66, 12133), (75, 12286), (77, 12307), (78, 12352), (79, 12373), (80, 12388), (83, 12499),

Gene: Donovan_16 Start: 9933, Stop: 10851, Start Num: 7

Candidate Starts for Donovan_16:

(Start: 7 @9933 has 44 MA's), (16, 10053), (32, 10269), (38, 10311), (48, 10371), (60, 10485), (72, 10617), (74, 10683),

Gene: Dove_31 Start: 18709, Stop: 19492, Start Num: 11

Candidate Starts for Dove_31:

(Start: 11 @18709 has 7 MA's), (Start: 17 @18760 has 24 MA's), (29, 18892), (36, 18979), (48, 19063), (60, 19177), (64, 19240), (67, 19267), (72, 19306),

Gene: Duke13_30 Start: 18963, Stop: 19758, Start Num: 10

Candidate Starts for Duke13_30:

(Start: 10 @18963 has 26 MA's), (Start: 17 @19026 has 24 MA's), (29, 19158), (36, 19245), (48, 19329), (60, 19443), (64, 19506), (67, 19533), (72, 19572),

Gene: Dusk_20 Start: 12057, Stop: 13000, Start Num: 10

Candidate Starts for Dusk_20:

(Start: 10 @12057 has 26 MA's), (Start: 18 @12129 has 86 MA's), (28, 12273), (37, 12366), (41, 12390), (42, 12402), (45, 12426), (50, 12444), (53, 12468), (66, 12627), (75, 12780), (77, 12801), (78, 12846), (79, 12867), (80, 12882), (83, 12993),

Gene: Dynamo_16 Start: 9860, Stop: 10859, Start Num: 2

Candidate Starts for Dynamo_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Easy2Say_22 Start: 13206, Stop: 14080, Start Num: 18

Candidate Starts for Easy2Say_22:

(Start: 10 @13134 has 26 MA's), (Start: 18 @13206 has 86 MA's), (28, 13350), (37, 13443), (41, 13467), (42, 13479), (45, 13503), (50, 13521), (53, 13545), (66, 13704), (75, 13857), (77, 13878), (78, 13923), (79, 13944), (80, 13959), (83, 14070),

Gene: Ejimix_34 Start: 20202, Stop: 20934, Start Num: 17

Candidate Starts for Ejimix_34:

(Start: 10 @20139 has 26 MA's), (Start: 17 @20202 has 24 MA's), (29, 20334), (36, 20421), (48, 20505), (60, 20619), (64, 20682), (67, 20709), (72, 20748),

Gene: Elite2014_20 Start: 11683, Stop: 12554, Start Num: 18

Candidate Starts for Elite2014_20:

(Start: 10 @11611 has 26 MA's), (Start: 18 @11683 has 86 MA's), (28, 11827), (37, 11920), (41, 11944), (42, 11956), (45, 11980), (50, 11998), (53, 12022), (66, 12181), (75, 12334), (77, 12355), (78, 12400), (79, 12421), (80, 12436), (83, 12547),

Gene: Emmina_21 Start: 11788, Stop: 12662, Start Num: 18

Candidate Starts for Emmina_21:

(Start: 10 @11716 has 26 MA's), (Start: 18 @11788 has 86 MA's), (28, 11932), (37, 12025), (41, 12049), (42, 12061), (45, 12085), (50, 12103), (53, 12127), (66, 12286), (75, 12439), (77, 12460), (78, 12505), (79, 12526), (80, 12541), (83, 12652),

Gene: EricMillard_33 Start: 19738, Stop: 20470, Start Num: 17

Candidate Starts for EricMillard_33:

(Start: 10 @19675 has 26 MA's), (Start: 17 @19738 has 24 MA's), (29, 19870), (36, 19957), (48, 20041), (60, 20155), (64, 20218), (67, 20245), (72, 20284),

Gene: Etoile_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Etoile_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: FairyPath_21 Start: 12667, Stop: 13538, Start Num: 18

Candidate Starts for FairyPath_21:

(Start: 10 @12595 has 26 MA's), (Start: 18 @12667 has 86 MA's), (28, 12811), (37, 12904), (41, 12928), (42, 12940), (45, 12964), (50, 12982), (53, 13006), (66, 13165), (75, 13318), (77, 13339), (78, 13384), (79, 13405), (80, 13420), (83, 13531),

Gene: Filch_22 Start: 12228, Stop: 13099, Start Num: 18

Candidate Starts for Filch_22:

(Start: 10 @12156 has 26 MA's), (Start: 18 @12228 has 86 MA's), (28, 12372), (37, 12465), (41, 12489), (42, 12501), (45, 12525), (50, 12543), (53, 12567), (66, 12726), (75, 12879), (77, 12900), (78, 12945), (79, 12966), (80, 12981), (83, 13092),

Gene: FireRed_20 Start: 11979, Stop: 12853, Start Num: 18

Candidate Starts for FireRed_20:

(Start: 10 @11907 has 26 MA's), (Start: 18 @11979 has 86 MA's), (28, 12123), (37, 12216), (41, 12240), (42, 12252), (45, 12276), (50, 12294), (53, 12318), (66, 12477), (75, 12630), (77, 12651), (78, 12696), (79, 12717), (80, 12732), (83, 12843),

Gene: FirstPlacePfu_16 Start: 9860, Stop: 10859, Start Num: 2

Candidate Starts for FirstPlacePfu_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Fishburne_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Fishburne_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Flypotenuse_19 Start: 12086, Stop: 12957, Start Num: 18

Candidate Starts for Flypotenuse_19:

(Start: 10 @12014 has 26 MA's), (Start: 18 @12086 has 86 MA's), (28, 12230), (37, 12323), (41, 12347), (42, 12359), (45, 12383), (50, 12401), (53, 12425), (66, 12584), (75, 12737), (77, 12758), (78, 12803), (79, 12824), (80, 12839), (83, 12950),

Gene: Gage_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for Gage_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Gator_19 Start: 12013, Stop: 12956, Start Num: 10

Candidate Starts for Gator_19:

(Start: 10 @12013 has 26 MA's), (Start: 18 @12085 has 86 MA's), (28, 12229), (37, 12322), (41, 12346), (42, 12358), (45, 12382), (50, 12400), (53, 12424), (66, 12583), (75, 12736), (77, 12757), (78, 12802), (79, 12823), (80, 12838), (83, 12949),

Gene: Gavriela_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for Gavriela_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Gemini_23 Start: 12463, Stop: 13337, Start Num: 18

Candidate Starts for Gemini_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Glaske_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for Glaske_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Glexan_19 Start: 12014, Stop: 12957, Start Num: 10

Candidate Starts for Glexan_19:

(Start: 10 @12014 has 26 MA's), (Start: 18 @12086 has 86 MA's), (28, 12230), (37, 12323), (41, 12347), (42, 12359), (45, 12383), (50, 12401), (53, 12425), (66, 12584), (75, 12737), (77, 12758), (78, 12803), (79, 12824), (80, 12839), (83, 12950),

Gene: GoldenSpark_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for GoldenSpark_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78,

13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Goldilocks_22 Start: 11880, Stop: 12751, Start Num: 18

Candidate Starts for Goldilocks_22:

(Start: 10 @11808 has 26 MA's), (Start: 18 @11880 has 86 MA's), (28, 12024), (37, 12117), (41, 12141), (42, 12153), (45, 12177), (50, 12195), (53, 12219), (66, 12378), (75, 12531), (77, 12552), (78, 12597), (79, 12618), (80, 12633), (83, 12744),

Gene: GooberAzure_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for GooberAzure_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: GreaseLightnin_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for GreaseLightnin_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: HUHilltop_16 Start: 9860, Stop: 10859, Start Num: 2

Candidate Starts for HUHilltop_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Halley_33 Start: 19388, Stop: 20183, Start Num: 10

Candidate Starts for Halley_33:

(Start: 10 @19388 has 26 MA's), (Start: 17 @19451 has 24 MA's), (29, 19583), (36, 19670), (48, 19754), (60, 19868), (64, 19931), (67, 19958), (72, 19997),

Gene: HanKaySha_22 Start: 12218, Stop: 13089, Start Num: 18

Candidate Starts for HanKaySha_22:

(Start: 10 @12146 has 26 MA's), (Start: 18 @12218 has 86 MA's), (28, 12362), (37, 12455), (41, 12479), (42, 12491), (45, 12515), (50, 12533), (53, 12557), (66, 12716), (75, 12869), (77, 12890), (78, 12935), (79, 12956), (80, 12971), (83, 13082),

Gene: Hannaconda_28 Start: 16092, Stop: 16824, Start Num: 17

Candidate Starts for Hannaconda_28:

(Start: 17 @16092 has 24 MA's), (29, 16224), (36, 16311), (48, 16395), (60, 16509), (64, 16572), (67, 16599), (72, 16638),

Gene: Harella_19 Start: 12086, Stop: 12960, Start Num: 18

Candidate Starts for Harella_19:

(Start: 10 @12014 has 26 MA's), (Start: 18 @12086 has 86 MA's), (28, 12230), (37, 12323), (41, 12347), (42, 12359), (45, 12383), (50, 12401), (53, 12425), (66, 12584), (75, 12737), (77, 12758), (78, 12803), (79, 12824), (80, 12839), (83, 12950),

Gene: Henry_20 Start: 12469, Stop: 13340, Start Num: 18

Candidate Starts for Henry_20:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Hidrated_33 Start: 20897, Stop: 21629, Start Num: 17

Candidate Starts for Hidrated_33:

(Start: 10 @20834 has 26 MA's), (Start: 17 @20897 has 24 MA's), (29, 21029), (36, 21116), (48, 21200), (60, 21314), (64, 21377), (67, 21404), (72, 21443),

Gene: Highbury_22 Start: 12137, Stop: 13008, Start Num: 18

Candidate Starts for Highbury_22:

(Start: 10 @12065 has 26 MA's), (Start: 18 @12137 has 86 MA's), (28, 12281), (37, 12374), (41, 12398), (42, 12410), (45, 12434), (50, 12452), (53, 12476), (66, 12635), (75, 12788), (77, 12809), (78, 12854), (79, 12875), (80, 12890), (83, 13001),

Gene: HokkenD_28 Start: 19021, Stop: 19753, Start Num: 17

Candidate Starts for HokkenD_28:

(Start: 10 @18958 has 26 MA's), (Start: 17 @19021 has 24 MA's), (29, 19153), (36, 19240), (48, 19324), (60, 19438), (64, 19501), (67, 19528), (72, 19567),

Gene: Holt_22 Start: 11753, Stop: 12624, Start Num: 18

Candidate Starts for Holt_22:

(Start: 10 @11681 has 26 MA's), (Start: 18 @11753 has 86 MA's), (28, 11897), (37, 11990), (41, 12014), (42, 12026), (45, 12050), (50, 12068), (53, 12092), (66, 12251), (75, 12404), (77, 12425), (78, 12470), (79, 12491), (80, 12506), (83, 12617),

Gene: Hoonter_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for Hoonter_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Hopey_22 Start: 12156, Stop: 13102, Start Num: 10

Candidate Starts for Hopey_22:

(Start: 10 @12156 has 26 MA's), (Start: 18 @12228 has 86 MA's), (28, 12372), (37, 12465), (41, 12489), (42, 12501), (45, 12525), (50, 12543), (53, 12567), (66, 12726), (75, 12879), (77, 12900), (78, 12945), (79, 12966), (80, 12981), (83, 13092),

Gene: Hughesyang_32 Start: 19582, Stop: 20365, Start Num: 11

Candidate Starts for Hughesyang_32:

(Start: 11 @19582 has 7 MA's), (Start: 17 @19633 has 24 MA's), (29, 19765), (36, 19852), (48, 19936), (60, 20050), (64, 20113), (67, 20140), (72, 20179),

Gene: IHOP_20 Start: 12057, Stop: 13003, Start Num: 10

Candidate Starts for IHOP_20:

(Start: 10 @12057 has 26 MA's), (Start: 18 @12129 has 86 MA's), (28, 12273), (37, 12366), (41, 12390), (42, 12402), (45, 12426), (50, 12444), (53, 12468), (66, 12627), (75, 12780), (77, 12801), (78, 12846), (79, 12867), (80, 12882), (83, 12993),

Gene: Icee_20 Start: 12129, Stop: 13000, Start Num: 18

Candidate Starts for Icee_20:

(Start: 10 @12057 has 26 MA's), (Start: 18 @12129 has 86 MA's), (28, 12273), (37, 12366), (41, 12390), (42, 12402), (45, 12426), (50, 12444), (53, 12468), (66, 12627), (75, 12780), (77, 12801), (78, 12846), (79, 12867), (80, 12882), (83, 12993),

Gene: Inca_20 Start: 11149, Stop: 12020, Start Num: 18

Candidate Starts for Inca_20:

(Start: 10 @11077 has 26 MA's), (Start: 18 @11149 has 86 MA's), (28, 11293), (37, 11386), (41, 11410), (42, 11422), (45, 11446), (50, 11464), (53, 11488), (66, 11647), (75, 11800), (77, 11821), (78, 11866), (79, 11887), (80, 11902), (83, 12013),

Gene: JeTaime_23 Start: 13268, Stop: 14139, Start Num: 18

Candidate Starts for JeTaime_23:

(Start: 10 @13196 has 26 MA's), (Start: 18 @13268 has 86 MA's), (28, 13412), (37, 13505), (41, 13529), (42, 13541), (45, 13565), (50, 13583), (53, 13607), (66, 13766), (75, 13919), (77, 13940), (78, 13985), (79, 14006), (80, 14021), (83, 14132),

Gene: Jebeks_16 Start: 9926, Stop: 10844, Start Num: 7

Candidate Starts for Jebeks_16:

(Start: 2 @9845 has 3 MA's), (3, 9848), (Start: 7 @9926 has 44 MA's), (32, 10262), (38, 10304), (48, 10364), (60, 10478), (72, 10610), (74, 10676),

Gene: JuicyJay_34 Start: 20222, Stop: 21017, Start Num: 10

Candidate Starts for JuicyJay_34:

(Start: 10 @20222 has 26 MA's), (Start: 17 @20285 has 24 MA's), (29, 20417), (36, 20504), (48, 20588), (60, 20702), (64, 20765), (67, 20792), (72, 20831),

Gene: Jung_16 Start: 9987, Stop: 10905, Start Num: 7

Candidate Starts for Jung_16:

(4, 9894), (Start: 7 @9987 has 44 MA's), (32, 10323), (38, 10365), (48, 10425), (60, 10539), (72, 10671), (74, 10737),

Gene: Juniormint_16 Start: 9961, Stop: 10879, Start Num: 7

Candidate Starts for Juniormint_16:

(Start: 2 @9880 has 3 MA's), (3, 9883), (Start: 7 @9961 has 44 MA's), (32, 10297), (38, 10339), (48, 10399), (60, 10513), (72, 10645), (74, 10711),

Gene: Kalah2_34 Start: 19990, Stop: 20785, Start Num: 10

Candidate Starts for Kalah2_34:

(Start: 10 @19990 has 26 MA's), (Start: 17 @20053 has 24 MA's), (29, 20185), (36, 20272), (48, 20356), (60, 20470), (64, 20533), (67, 20560), (72, 20599),

Gene: Kanye_23 Start: 13384, Stop: 14327, Start Num: 10

Candidate Starts for Kanye_23:

(Start: 10 @13384 has 26 MA's), (Start: 18 @13456 has 86 MA's), (28, 13600), (37, 13693), (41, 13717), (42, 13729), (45, 13753), (50, 13771), (53, 13795), (66, 13954), (75, 14107), (77, 14128), (78, 14173), (79, 14194), (80, 14209), (83, 14320),

Gene: Kari_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Kari_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: KashFlow_25 Start: 15658, Stop: 16390, Start Num: 17

Candidate Starts for KashFlow_25:

(Start: 17 @15658 has 24 MA's), (48, 15961), (51, 15979), (60, 16075), (64, 16138), (67, 16165), (72, 16204),

Gene: KilKor_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for KilKor_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Kimchi_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for Kimchi_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Klein_33 Start: 19031, Stop: 19763, Start Num: 17

Candidate Starts for Klein_33:

(Start: 10 @18968 has 26 MA's), (Start: 17 @19031 has 24 MA's), (29, 19163), (36, 19250), (48, 19334), (60, 19448), (64, 19511), (67, 19538), (72, 19577),

Gene: Ksquared_15 Start: 9957, Stop: 10875, Start Num: 7

Candidate Starts for Ksquared_15:

(Start: 2 @9876 has 3 MA's), (3, 9879), (Start: 7 @9957 has 44 MA's), (32, 10293), (38, 10335), (48, 10395), (60, 10509), (72, 10641), (74, 10707),

Gene: Langerak_16 Start: 9925, Stop: 10843, Start Num: 7

Candidate Starts for Langerak_16:

(Start: 2 @9844 has 3 MA's), (3, 9847), (Start: 7 @9925 has 44 MA's), (32, 10261), (38, 10303), (48, 10363), (60, 10477), (72, 10609), (74, 10675),

Gene: Lilizi_23 Start: 12175, Stop: 13046, Start Num: 18

Candidate Starts for Lilizi_23:

(Start: 10 @12103 has 26 MA's), (Start: 18 @12175 has 86 MA's), (28, 12319), (37, 12412), (41, 12436), (42, 12448), (45, 12472), (50, 12490), (53, 12514), (66, 12673), (75, 12826), (77, 12847), (78, 12892), (79, 12913), (80, 12928), (83, 13039),

Gene: Lilpickle_20 Start: 11683, Stop: 12554, Start Num: 18

Candidate Starts for Lilpickle_20:

(Start: 10 @11611 has 26 MA's), (Start: 18 @11683 has 86 MA's), (28, 11827), (37, 11920), (41, 11944), (42, 11956), (45, 11980), (50, 11998), (53, 12022), (66, 12181), (75, 12334), (77, 12355), (78, 12400), (79, 12421), (80, 12436), (83, 12547),

Gene: LittleE_30 Start: 18797, Stop: 19529, Start Num: 17

Candidate Starts for LittleE_30:

(Start: 17 @18797 has 24 MA's), (29, 18929), (36, 19016), (48, 19100), (60, 19214), (64, 19277), (67, 19304), (72, 19343),

Gene: Lucky2013_31 Start: 17489, Stop: 18272, Start Num: 11

Candidate Starts for Lucky2013_31:

(Start: 11 @17489 has 7 MA's), (Start: 17 @17540 has 24 MA's), (29, 17672), (36, 17759), (48, 17843), (60, 17957), (64, 18020), (67, 18047), (72, 18086),

Gene: MISSy_20 Start: 11979, Stop: 12850, Start Num: 18

Candidate Starts for MISSy_20:

(Start: 10 @11907 has 26 MA's), (Start: 18 @11979 has 86 MA's), (28, 12123), (37, 12216), (41, 12240), (42, 12252), (45, 12276), (50, 12294), (53, 12318), (66, 12477), (75, 12630), (77, 12651), (78, 12696), (79, 12717), (80, 12732), (83, 12843),

Gene: MPhalcon_20 Start: 11979, Stop: 12850, Start Num: 18

Candidate Starts for MPhalcon_20:

(Start: 10 @11907 has 26 MA's), (Start: 18 @11979 has 86 MA's), (28, 12123), (37, 12216), (41, 12240), (42, 12252), (45, 12276), (50, 12294), (53, 12318), (66, 12477), (75, 12630), (77, 12651), (78, 12696), (79, 12717), (80, 12732), (83, 12843),

Gene: MadamMonkfish_21 Start: 11894, Stop: 12765, Start Num: 18

Candidate Starts for MadamMonkfish_21:

(Start: 10 @11822 has 26 MA's), (Start: 18 @11894 has 86 MA's), (28, 12038), (37, 12131), (41, 12155), (42, 12167), (45, 12191), (50, 12209), (53, 12233), (66, 12392), (75, 12545), (77, 12566), (78, 12611), (79, 12632), (80, 12647), (83, 12758),

Gene: Majeke_16 Start: 9932, Stop: 10850, Start Num: 7

Candidate Starts for Majeke_16:

(Start: 7 @9932 has 44 MA's), (16, 10052), (32, 10268), (38, 10310), (48, 10370), (60, 10484), (72, 10616), (74, 10682),

Gene: Malithi_16 Start: 9986, Stop: 10904, Start Num: 7

Candidate Starts for Malithi_16:

(Start: 7 @9986 has 44 MA's), (16, 10106), (32, 10322), (38, 10364), (48, 10424), (60, 10538), (72, 10670), (74, 10736),

Gene: Mangethe_16 Start: 9932, Stop: 10850, Start Num: 7

Candidate Starts for Mangethe_16:

(Start: 7 @9932 has 44 MA's), (16, 10052), (32, 10268), (38, 10310), (48, 10370), (60, 10484), (72, 10616), (74, 10682),

Gene: Marshmallow_21 Start: 12469, Stop: 13340, Start Num: 18

Candidate Starts for Marshmallow_21:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Maxxinista_22 Start: 11871, Stop: 12814, Start Num: 10

Candidate Starts for Maxxinista_22:

(Start: 10 @11871 has 26 MA's), (Start: 18 @11943 has 86 MA's), (28, 12087), (37, 12180), (41, 12204), (42, 12216), (45, 12240), (50, 12258), (53, 12282), (66, 12441), (75, 12594), (77, 12615), (78, 12660), (79, 12681), (80, 12696), (83, 12807),

Gene: Megiddo_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for Megiddo_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: MiaZeal_30 Start: 17180, Stop: 17963, Start Num: 11

Candidate Starts for MiaZeal_30:

(8, 17138), (Start: 11 @17180 has 7 MA's), (Start: 17 @17231 has 24 MA's), (29, 17363), (36, 17450), (48, 17534), (60, 17648), (64, 17711), (67, 17738), (72, 17777),

Gene: Minerva_33 Start: 19453, Stop: 20248, Start Num: 10

Candidate Starts for Minerva_33:

(Start: 10 @19453 has 26 MA's), (Start: 17 @19516 has 24 MA's), (29, 19648), (36, 19735), (48, 19819), (60, 19933), (64, 19996), (67, 20023), (72, 20062),

Gene: Miniwave_21 Start: 12667, Stop: 13538, Start Num: 18

Candidate Starts for Miniwave_21:

(Start: 10 @12595 has 26 MA's), (Start: 18 @12667 has 86 MA's), (28, 12811), (37, 12904), (41, 12928), (42, 12940), (45, 12964), (50, 12982), (53, 13006), (66, 13165), (75, 13318), (77, 13339), (78, 13384), (79, 13405), (80, 13420), (83, 13531),

Gene: Misfit_21 Start: 12560, Stop: 13431, Start Num: 18

Candidate Starts for Misfit_21:

(Start: 10 @12488 has 26 MA's), (Start: 18 @12560 has 86 MA's), (28, 12704), (37, 12797), (41, 12821), (42, 12833), (45, 12857), (50, 12875), (53, 12899), (66, 13058), (75, 13211), (77, 13232), (78, 13277), (79, 13298), (80, 13313), (83, 13424),

Gene: Moldemort_22 Start: 12218, Stop: 13089, Start Num: 18

Candidate Starts for Moldemort_22:

(Start: 10 @12146 has 26 MA's), (Start: 18 @12218 has 86 MA's), (28, 12362), (37, 12455), (41, 12479), (42, 12491), (45, 12515), (50, 12533), (53, 12557), (66, 12716), (75, 12869), (77, 12890), (78, 12935), (79, 12956), (80, 12971), (83, 13082),

Gene: MollyToe_21 Start: 12641, Stop: 13512, Start Num: 18

Candidate Starts for MollyToe_21:

(Start: 10 @12569 has 26 MA's), (Start: 18 @12641 has 86 MA's), (28, 12785), (37, 12878), (41, 12902), (42, 12914), (45, 12938), (50, 12956), (53, 12980), (66, 13139), (75, 13292), (77, 13313), (78, 13358), (79, 13379), (80, 13394), (83, 13505),

Gene: MooMoo_13 Start: 8071, Stop: 8992, Start Num: 12

Candidate Starts for MooMoo_13:

(5, 7981), (Start: 12 @8071 has 1 MA's), (20, 8158), (25, 8218), (27, 8233), (30, 8266), (35, 8326), (43, 8392), (44, 8395), (60, 8518), (62, 8530), (64, 8581), (65, 8584), (68, 8617), (70, 8647), (71, 8650), (73, 8680), (81, 8878),

Gene: Murica_19 Start: 11935, Stop: 12809, Start Num: 18

Candidate Starts for Murica_19:

(Start: 10 @11863 has 26 MA's), (Start: 18 @11935 has 86 MA's), (28, 12079), (37, 12172), (41, 12196), (42, 12208), (45, 12232), (50, 12250), (53, 12274), (66, 12433), (75, 12586), (77, 12607), (78, 12652), (79, 12673), (80, 12688), (83, 12799),

Gene: Myrale_21 Start: 12268, Stop: 13211, Start Num: 10

Candidate Starts for Myrale_21:

(Start: 10 @12268 has 26 MA's), (Start: 18 @12340 has 86 MA's), (28, 12484), (37, 12577), (41, 12601), (42, 12613), (45, 12637), (50, 12655), (53, 12679), (66, 12838), (75, 12991), (77, 13012), (78, 13057), (79, 13078), (80, 13093), (83, 13204),

Gene: Nazo_15 Start: 9666, Stop: 10584, Start Num: 7

Candidate Starts for Nazo_15:

(Start: 7 @9666 has 44 MA's), (31, 9963), (48, 10104), (60, 10218), (72, 10350), (74, 10416),

Gene: Necropolis_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Necropolis_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: NelitzaMV_21 Start: 12539, Stop: 13410, Start Num: 18

Candidate Starts for NelitzaMV_21:

(Start: 10 @12467 has 26 MA's), (Start: 18 @12539 has 86 MA's), (28, 12683), (37, 12776), (41, 12800), (42, 12812), (45, 12836), (50, 12854), (53, 12878), (66, 13037), (75, 13190), (77, 13211), (78, 13256), (79, 13277), (80, 13292), (83, 13403),

Gene: NihilNomen_32 Start: 19513, Stop: 20245, Start Num: 17

Candidate Starts for NihilNomen_32:

(Start: 10 @19450 has 26 MA's), (Start: 17 @19513 has 24 MA's), (29, 19645), (36, 19732), (48, 19816), (60, 19930), (64, 19993), (67, 20020), (72, 20059),

Gene: Nimrod_21 Start: 12643, Stop: 13586, Start Num: 10

Candidate Starts for Nimrod_21:

(Start: 10 @12643 has 26 MA's), (Start: 18 @12715 has 86 MA's), (28, 12859), (37, 12952), (41, 12976), (42, 12988), (45, 13012), (50, 13030), (53, 13054), (66, 13213), (75, 13366), (77, 13387), (78, 13432), (79, 13453), (80, 13468), (83, 13579),

Gene: NoSleep_22 Start: 12215, Stop: 13086, Start Num: 18

Candidate Starts for NoSleep_22:

(Start: 10 @12143 has 26 MA's), (Start: 18 @12215 has 86 MA's), (28, 12359), (37, 12452), (41, 12476), (42, 12488), (45, 12512), (50, 12530), (53, 12554), (66, 12713), (75, 12866), (77, 12887), (78, 12932), (79, 12953), (80, 12968), (83, 13079),

Gene: NonchalantPear_21 Start: 12168, Stop: 13039, Start Num: 18

Candidate Starts for NonchalantPear_21:

(Start: 10 @12096 has 26 MA's), (Start: 18 @12168 has 86 MA's), (28, 12312), (37, 12405), (41, 12429), (42, 12441), (45, 12465), (50, 12483), (53, 12507), (66, 12666), (75, 12819), (77, 12840), (78, 12885), (79, 12906), (80, 12921), (83, 13032),

Gene: Optimus_31 Start: 19091, Stop: 19823, Start Num: 17

Candidate Starts for Optimus_31:

(Start: 10 @19028 has 26 MA's), (Start: 17 @19091 has 24 MA's), (29, 19223), (36, 19310), (48, 19394), (60, 19508), (64, 19571), (67, 19598), (72, 19637),

Gene: OrionPax_22 Start: 12218, Stop: 13089, Start Num: 18

Candidate Starts for OrionPax_22:

(Start: 10 @12146 has 26 MA's), (Start: 18 @12218 has 86 MA's), (28, 12362), (37, 12455), (41, 12479), (42, 12491), (45, 12515), (50, 12533), (53, 12557), (66, 12716), (75, 12869), (77, 12890), (78, 12935), (79, 12956), (80, 12971), (83, 13082),

Gene: Palpatine_20 Start: 11974, Stop: 12848, Start Num: 18

Candidate Starts for Palpatine_20:

(Start: 10 @11902 has 26 MA's), (Start: 18 @11974 has 86 MA's), (28, 12118), (37, 12211), (41, 12235), (42, 12247), (45, 12271), (50, 12289), (53, 12313), (66, 12472), (75, 12625), (77, 12646), (78, 12691), (79, 12712), (80, 12727), (83, 12838),

Gene: Paperbeatsrock_23 Start: 13450, Stop: 14321, Start Num: 18

Candidate Starts for Paperbeatsrock_23:

(Start: 10 @13378 has 26 MA's), (Start: 18 @13450 has 86 MA's), (28, 13594), (37, 13687), (41, 13711), (42, 13723), (45, 13747), (50, 13765), (53, 13789), (66, 13948), (75, 14101), (77, 14122), (78, 14167), (79, 14188), (80, 14203), (83, 14314),

Gene: Phaja_20 Start: 12057, Stop: 13003, Start Num: 10

Candidate Starts for Phaja_20:

(Start: 10 @12057 has 26 MA's), (Start: 18 @12129 has 86 MA's), (28, 12273), (37, 12366), (41, 12390), (42, 12402), (45, 12426), (50, 12444), (53, 12468), (66, 12627), (75, 12780), (77, 12801), (78, 12846), (79, 12867), (80, 12882), (83, 12993),

Gene: Phalm_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for Phalm_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Pharsalus_22 Start: 13178, Stop: 14121, Start Num: 10

Candidate Starts for Pharsalus_22:

(Start: 10 @13178 has 26 MA's), (Start: 18 @13250 has 86 MA's), (28, 13394), (37, 13487), (41, 13511), (42, 13523), (45, 13547), (50, 13565), (53, 13589), (66, 13748), (75, 13901), (77, 13922), (78, 13967), (79, 13988), (80, 14003), (83, 14114),

Gene: Phayonce_15 Start: 9613, Stop: 10519, Start Num: 6

Candidate Starts for Phayonce_15:

(4, 9529), (Start: 6 @9613 has 2 MA's), (15, 9718), (19, 9754), (32, 9937), (38, 9979), (48, 10039), (52, 10072), (60, 10153), (72, 10285), (74, 10351), (82, 10516),

Gene: Phegasus_16 Start: 9932, Stop: 10850, Start Num: 7

Candidate Starts for Phegasus_16:

(Start: 7 @9932 has 44 MA's), (16, 10052), (32, 10268), (38, 10310), (48, 10370), (60, 10484), (72, 10616), (74, 10682),

Gene: Phineas_16 Start: 9929, Stop: 10847, Start Num: 7

Candidate Starts for Phineas_16:

(Start: 2 @9848 has 3 MA's), (3, 9851), (Start: 7 @9929 has 44 MA's), (32, 10265), (38, 10307), (48, 10367), (60, 10481), (72, 10613), (74, 10679),

Gene: Phoebus_33 Start: 19738, Stop: 20470, Start Num: 17

Candidate Starts for Phoebus_33:

(Start: 10 @19675 has 26 MA's), (Start: 17 @19738 has 24 MA's), (29, 19870), (36, 19957), (48, 20041), (60, 20155), (64, 20218), (67, 20245), (72, 20284),

Gene: Policronamos_20 Start: 11979, Stop: 12853, Start Num: 18

Candidate Starts for Policronamos_20:

(Start: 10 @11907 has 26 MA's), (Start: 18 @11979 has 86 MA's), (28, 12123), (37, 12216), (41, 12240), (42, 12252), (45, 12276), (50, 12294), (53, 12318), (66, 12477), (75, 12630), (77, 12651), (78, 12696), (79, 12717), (80, 12732), (83, 12843),

Gene: Porcelain_30 Start: 17231, Stop: 17963, Start Num: 17

Candidate Starts for Porcelain_30:

(8, 17138), (Start: 11 @17180 has 7 MA's), (Start: 17 @17231 has 24 MA's), (29, 17363), (36, 17450), (48, 17534), (60, 17648), (64, 17711), (67, 17738), (72, 17777),

Gene: Purky_15 Start: 9624, Stop: 10536, Start Num: 7

Candidate Starts for Purky_15:

(4, 9543), (Start: 7 @9624 has 44 MA's), (19, 9768), (38, 9996), (48, 10056), (60, 10170), (72, 10302), (82, 10533),

Gene: Pygmy_15 Start: 9664, Stop: 10582, Start Num: 7

Candidate Starts for Pygmy_15:

(Start: 7 @9664 has 44 MA's), (32, 10000), (38, 10042), (48, 10102), (60, 10216), (72, 10348), (74, 10414),

Gene: Quallification_22 Start: 12676, Stop: 13547, Start Num: 18

Candidate Starts for Quallification_22:

(Start: 10 @12604 has 26 MA's), (Start: 18 @12676 has 86 MA's), (28, 12820), (37, 12913), (41, 12937), (42, 12949), (45, 12973), (50, 12991), (53, 13015), (66, 13174), (75, 13327), (77, 13348), (78, 13393), (79, 13414), (80, 13429), (83, 13540),

Gene: QueenHazel_15 Start: 9782, Stop: 10775, Start Num: 13

Candidate Starts for QueenHazel_15:

(Start: 6 @9695 has 2 MA's), (Start: 13 @9782 has 6 MA's), (20, 9866), (26, 9929), (27, 9941), (28, 9947), (35, 10034), (42, 10085), (44, 10103), (55, 10169), (56, 10193), (59, 10223), (60, 10226), (64, 10289), (65, 10292), (70, 10355), (71, 10358), (84, 10772),

Gene: Redno2_32 Start: 19159, Stop: 19954, Start Num: 10

Candidate Starts for Redno2_32:

(Start: 10 @19159 has 26 MA's), (Start: 17 @19222 has 24 MA's), (29, 19354), (36, 19441), (48, 19525), (60, 19639), (64, 19702), (67, 19729), (72, 19768),

Gene: Rimmer_20 Start: 12036, Stop: 12907, Start Num: 18

Candidate Starts for Rimmer_20:

(Start: 10 @11964 has 26 MA's), (Start: 18 @12036 has 86 MA's), (28, 12180), (37, 12273), (41, 12297), (42, 12309), (45, 12333), (50, 12351), (53, 12375), (66, 12534), (75, 12687), (77, 12708), (78, 12753), (79, 12774), (80, 12789), (83, 12900),

Gene: Saints25_22 Start: 12137, Stop: 13008, Start Num: 18

Candidate Starts for Saints25_22:

(Start: 10 @12065 has 26 MA's), (Start: 18 @12137 has 86 MA's), (28, 12281), (37, 12374), (41, 12398), (42, 12410), (45, 12434), (50, 12452), (53, 12476), (66, 12635), (75, 12788), (77, 12809), (78, 12854), (79, 12875), (80, 12890), (83, 13001),

Gene: Sassay_20 Start: 11977, Stop: 12848, Start Num: 18

Candidate Starts for Sassay_20:

(Start: 10 @11905 has 26 MA's), (Start: 18 @11977 has 86 MA's), (28, 12121), (37, 12214), (41, 12238), (42, 12250), (45, 12274), (50, 12292), (53, 12316), (66, 12475), (75, 12628), (77, 12649), (78, 12694), (79, 12715), (80, 12730), (83, 12841),

Gene: Sbash_14 Start: 9346, Stop: 10261, Start Num: 13

Candidate Starts for Sbash_14:

(Start: 13 @9346 has 6 MA's), (20, 9430), (26, 9493), (27, 9505), (30, 9538), (35, 9598), (44, 9667), (47, 9679), (49, 9682), (53, 9718), (54, 9727), (59, 9787), (60, 9790), (64, 9853), (65, 9856), (69, 9898), (70, 9919), (71, 9922),

Gene: Schatzie_31 Start: 18762, Stop: 19494, Start Num: 17

Candidate Starts for Schatzie_31:

(Start: 11 @18711 has 7 MA's), (Start: 17 @18762 has 24 MA's), (29, 18894), (36, 18981), (48, 19065), (60, 19179), (64, 19242), (67, 19269), (72, 19308),

Gene: ShamWow_21 Start: 12470, Stop: 13341, Start Num: 18

Candidate Starts for ShamWow_21:

(Start: 10 @12398 has 26 MA's), (Start: 18 @12470 has 86 MA's), (28, 12614), (37, 12707), (41, 12731), (42, 12743), (45, 12767), (50, 12785), (53, 12809), (66, 12968), (75, 13121), (77, 13142), (78,

13187), (79, 13208), (80, 13223), (83, 13334),

Gene: ShereKhan_23 Start: 13456, Stop: 14327, Start Num: 18

Candidate Starts for ShereKhan_23:

(Start: 10 @13384 has 26 MA's), (Start: 18 @13456 has 86 MA's), (28, 13600), (37, 13693), (41, 13717), (42, 13729), (45, 13753), (50, 13771), (53, 13795), (66, 13954), (75, 14107), (77, 14128), (78, 14173), (79, 14194), (80, 14209), (83, 14320),

Gene: Shipwreck_15 Start: 9642, Stop: 10560, Start Num: 7

Candidate Starts for Shipwreck_15:

(Start: 7 @9642 has 44 MA's), (32, 9978), (38, 10020), (48, 10080), (60, 10194), (72, 10326), (74, 10392),

Gene: Simpliphy_22 Start: 12218, Stop: 13089, Start Num: 18

Candidate Starts for Simpliphy_22:

(Start: 10 @12146 has 26 MA's), (Start: 18 @12218 has 86 MA's), (28, 12362), (37, 12455), (41, 12479), (42, 12491), (45, 12515), (50, 12533), (53, 12557), (66, 12716), (75, 12869), (77, 12890), (78, 12935), (79, 12956), (80, 12971), (83, 13082),

Gene: Sonah_16 Start: 9934, Stop: 10852, Start Num: 7

Candidate Starts for Sonah_16:

(Start: 7 @9934 has 44 MA's), (16, 10054), (32, 10270), (38, 10312), (48, 10372), (60, 10486), (72, 10618), (74, 10684),

Gene: SophKB_21 Start: 12397, Stop: 13340, Start Num: 10

Candidate Starts for SophKB_21:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Sotrice96_21 Start: 12425, Stop: 13296, Start Num: 18

Candidate Starts for Sotrice96_21:

(Start: 10 @12353 has 26 MA's), (Start: 18 @12425 has 86 MA's), (28, 12569), (37, 12662), (41, 12686), (42, 12698), (45, 12722), (50, 12740), (53, 12764), (66, 12923), (75, 13076), (77, 13097), (78, 13142), (79, 13163), (80, 13178), (83, 13289),

Gene: Squint_30 Start: 17358, Stop: 18090, Start Num: 17

Candidate Starts for Squint_30:

(Start: 11 @17307 has 7 MA's), (Start: 17 @17358 has 24 MA's), (29, 17490), (36, 17577), (48, 17661), (60, 17775), (64, 17838), (67, 17865), (72, 17904),

Gene: Stank_23 Start: 12463, Stop: 13337, Start Num: 18

Candidate Starts for Stank_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Stark_22 Start: 12231, Stop: 13102, Start Num: 18

Candidate Starts for Stark_22:

(Start: 10 @12159 has 26 MA's), (Start: 18 @12231 has 86 MA's), (28, 12375), (37, 12468), (41, 12492), (42, 12504), (45, 12528), (50, 12546), (53, 12570), (66, 12729), (75, 12882), (77, 12903), (78, 12948), (79, 12969), (80, 12984), (83, 13095),

Gene: StellaBean_21 Start: 12397, Stop: 13340, Start Num: 10

Candidate Starts for StellaBean_21:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: StevieRay_16 Start: 9932, Stop: 10850, Start Num: 7

Candidate Starts for StevieRay_16:

(Start: 2 @9851 has 3 MA's), (3, 9854), (Start: 7 @9932 has 44 MA's), (32, 10268), (38, 10310), (48, 10370), (60, 10484), (72, 10616), (74, 10682),

Gene: StolenFromERC_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for StolenFromERC_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: StressBall_16 Start: 9949, Stop: 10867, Start Num: 7

Candidate Starts for StressBall_16:

(Start: 7 @9949 has 44 MA's), (16, 10069), (32, 10285), (38, 10327), (48, 10387), (60, 10501), (72, 10633), (74, 10699),

Gene: Stuck_14 Start: 9364, Stop: 10279, Start Num: 13

Candidate Starts for Stuck_14:

(Start: 13 @9364 has 6 MA's), (20, 9448), (25, 9508), (26, 9511), (27, 9523), (30, 9556), (44, 9685), (49, 9700), (54, 9745), (59, 9805), (60, 9808), (64, 9871), (65, 9874), (69, 9916), (70, 9937), (71, 9940),

Gene: Superphikiman_31 Start: 17413, Stop: 18145, Start Num: 17

Candidate Starts for Superphikiman_31:

(8, 17320), (Start: 11 @17362 has 7 MA's), (Start: 17 @17413 has 24 MA's), (29, 17545), (36, 17632), (48, 17716), (60, 17830), (64, 17893), (67, 17920), (72, 17959),

Gene: TBrady12_23 Start: 12460, Stop: 13331, Start Num: 18

Candidate Starts for TBrady12_23:

(Start: 10 @12388 has 26 MA's), (Start: 18 @12460 has 86 MA's), (28, 12604), (37, 12697), (41, 12721), (42, 12733), (45, 12757), (50, 12775), (53, 12799), (61, 12877), (66, 12958), (75, 13111), (77, 13132), (78, 13177), (79, 13198), (80, 13213), (83, 13324),

Gene: Tarkin_23 Start: 13459, Stop: 14330, Start Num: 18

Candidate Starts for Tarkin_23:

(Start: 10 @13387 has 26 MA's), (Start: 18 @13459 has 86 MA's), (28, 13603), (37, 13696), (41, 13720), (42, 13732), (45, 13756), (50, 13774), (53, 13798), (66, 13957), (75, 14110), (77, 14131), (78, 14176), (79, 14197), (80, 14212), (83, 14323),

Gene: TeamEdward_21 Start: 12641, Stop: 13512, Start Num: 18

Candidate Starts for TeamEdward_21:

(Start: 10 @12569 has 26 MA's), (Start: 18 @12641 has 86 MA's), (28, 12785), (37, 12878), (41, 12902), (42, 12914), (45, 12938), (50, 12956), (53, 12980), (66, 13139), (75, 13292), (77, 13313), (78, 13358), (79, 13379), (80, 13394), (83, 13505),

Gene: TeardropMSU_20 Start: 12377, Stop: 13248, Start Num: 18

Candidate Starts for TeardropMSU_20:

(Start: 10 @12305 has 26 MA's), (Start: 18 @12377 has 86 MA's), (28, 12521), (37, 12614), (41, 12638), (42, 12650), (45, 12674), (50, 12692), (53, 12716), (66, 12875), (75, 13028), (77, 13049), (78, 13094), (79, 13115), (80, 13130), (83, 13241),

Gene: Teaspoon_21 Start: 11841, Stop: 12787, Start Num: 10

Candidate Starts for Teaspoon_21:

(Start: 10 @11841 has 26 MA's), (Start: 18 @11913 has 86 MA's), (28, 12057), (37, 12150), (41, 12174), (42, 12186), (45, 12210), (50, 12228), (53, 12252), (66, 12411), (75, 12564), (77, 12585), (78, 12630), (79, 12651), (80, 12666), (83, 12777),

Gene: Techage_16 Start: 9935, Stop: 10853, Start Num: 7

Candidate Starts for Techage_16:

(Start: 7 @9935 has 44 MA's), (16, 10055), (32, 10271), (38, 10313), (48, 10373), (60, 10487), (72, 10619), (74, 10685),

Gene: Terminus_21 Start: 12560, Stop: 13431, Start Num: 18

Candidate Starts for Terminus_21:

(Start: 10 @12488 has 26 MA's), (Start: 18 @12560 has 86 MA's), (28, 12704), (37, 12797), (41, 12821), (42, 12833), (45, 12857), (50, 12875), (53, 12899), (66, 13058), (75, 13211), (77, 13232), (78, 13277), (79, 13298), (80, 13313), (83, 13424),

Gene: Thespis_16 Start: 9944, Stop: 10862, Start Num: 7

Candidate Starts for Thespis_16:

(Start: 2 @9863 has 3 MA's), (3, 9866), (Start: 7 @9944 has 44 MA's), (32, 10280), (38, 10322), (48, 10382), (60, 10496), (72, 10628), (74, 10694),

Gene: Thibault_29 Start: 19022, Stop: 19754, Start Num: 17

Candidate Starts for Thibault_29:

(Start: 10 @18959 has 26 MA's), (Start: 17 @19022 has 24 MA's), (29, 19154), (36, 19241), (48, 19325), (60, 19439), (64, 19502), (67, 19529), (72, 19568),

Gene: Thimble_21 Start: 11426, Stop: 12297, Start Num: 18

Candidate Starts for Thimble_21:

(Start: 10 @11354 has 26 MA's), (Start: 18 @11426 has 86 MA's), (28, 11570), (37, 11663), (41, 11687), (42, 11699), (45, 11723), (50, 11741), (53, 11765), (66, 11924), (75, 12077), (77, 12098), (78, 12143), (79, 12164), (80, 12179), (83, 12290),

Gene: ThreeRngTarjay_32 Start: 19588, Stop: 20320, Start Num: 17

Candidate Starts for ThreeRngTarjay_32:

(Start: 10 @19525 has 26 MA's), (Start: 17 @19588 has 24 MA's), (29, 19720), (36, 19807), (48, 19891), (60, 20005), (64, 20068), (67, 20095), (72, 20134),

Gene: Thresher_22 Start: 13221, Stop: 14092, Start Num: 18

Candidate Starts for Thresher_22:

(Start: 10 @13149 has 26 MA's), (Start: 18 @13221 has 86 MA's), (28, 13365), (37, 13458), (41, 13482), (42, 13494), (45, 13518), (50, 13536), (53, 13560), (66, 13719), (75, 13872), (77, 13893), (78, 13938), (79, 13959), (80, 13974), (83, 14085),

Gene: ThulaThula_15 Start: 9619, Stop: 10525, Start Num: 6

Candidate Starts for ThulaThula_15:

(4, 9535), (Start: 6 @9619 has 2 MA's), (15, 9724), (19, 9760), (32, 9943), (38, 9985), (48, 10045), (52, 10078), (60, 10159), (72, 10291), (74, 10357), (82, 10522),

Gene: Tomaszewski_20 Start: 12070, Stop: 12941, Start Num: 18

Candidate Starts for Tomaszewski_20:

(Start: 10 @11998 has 26 MA's), (Start: 18 @12070 has 86 MA's), (28, 12214), (37, 12307), (41, 12331), (42, 12343), (45, 12367), (50, 12385), (53, 12409), (66, 12568), (75, 12721), (77, 12742), (78, 12787), (79, 12808), (80, 12823), (83, 12934),

Gene: Tortellini_15 Start: 9632, Stop: 10544, Start Num: 7

Candidate Starts for Tortellini_15:

(Start: 7 @9632 has 44 MA's), (19, 9776), (23, 9857), (32, 9962), (38, 10004), (48, 10064), (60, 10178), (72, 10310), (82, 10541),

Gene: Traaww1_18 Start: 12115, Stop: 12986, Start Num: 18

Candidate Starts for Traaww1_18:

(Start: 10 @12043 has 26 MA's), (Start: 18 @12115 has 86 MA's), (28, 12259), (37, 12352), (41, 12376), (42, 12388), (45, 12412), (50, 12430), (53, 12454), (66, 12613), (75, 12766), (77, 12787), (78, 12832), (79, 12853), (80, 12868), (83, 12979),

Gene: Tuco_21 Start: 12469, Stop: 13343, Start Num: 18

Candidate Starts for Tuco_21:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Venti_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Venti_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: Wanda_34 Start: 18968, Stop: 19763, Start Num: 10

Candidate Starts for Wanda_34:

(Start: 10 @18968 has 26 MA's), (Start: 17 @19031 has 24 MA's), (29, 19163), (36, 19250), (48, 19334), (60, 19448), (64, 19511), (67, 19538), (72, 19577),

Gene: Wiggin_23 Start: 12463, Stop: 13337, Start Num: 18

Candidate Starts for Wiggin_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Willez_20 Start: 11977, Stop: 12848, Start Num: 18

Candidate Starts for Willez_20:

(Start: 10 @11905 has 26 MA's), (Start: 18 @11977 has 86 MA's), (28, 12121), (37, 12214), (41, 12238), (42, 12250), (45, 12274), (50, 12292), (53, 12316), (66, 12475), (75, 12628), (77, 12649), (78, 12694), (79, 12715), (80, 12730), (83, 12841),

Gene: Willsammy_16 Start: 9947, Stop: 10865, Start Num: 7

Candidate Starts for Willsammy_16:

(Start: 2 @9866 has 3 MA's), (3, 9869), (Start: 7 @9947 has 44 MA's), (32, 10283), (38, 10325), (48, 10385), (60, 10499), (72, 10631), (74, 10697),

Gene: Xandras_23 Start: 12463, Stop: 13334, Start Num: 18

Candidate Starts for Xandras_23:

(Start: 10 @12391 has 26 MA's), (Start: 18 @12463 has 86 MA's), (28, 12607), (37, 12700), (41, 12724), (42, 12736), (45, 12760), (50, 12778), (53, 12802), (66, 12961), (75, 13114), (77, 13135), (78, 13180), (79, 13201), (80, 13216), (83, 13327),

Gene: Xavia_16 Start: 9945, Stop: 10863, Start Num: 7

Candidate Starts for Xavia_16:

(Start: 2 @9864 has 3 MA's), (3, 9867), (Start: 7 @9945 has 44 MA's), (32, 10281), (38, 10323), (48, 10383), (60, 10497), (72, 10629), (74, 10695),

Gene: Xula_14 Start: 9411, Stop: 10404, Start Num: 13

Candidate Starts for Xula_14:

(1, 9222), (Start: 13 @9411 has 6 MA's), (20, 9495), (26, 9558), (27, 9570), (28, 9576), (35, 9663), (42, 9714), (44, 9732), (56, 9822), (59, 9852), (60, 9855), (64, 9918), (65, 9921), (70, 9984), (71, 9987), (84, 10401),

Gene: YassJohnny_21 Start: 12469, Stop: 13343, Start Num: 18

Candidate Starts for YassJohnny_21:

(Start: 10 @12397 has 26 MA's), (Start: 18 @12469 has 86 MA's), (28, 12613), (37, 12706), (41, 12730), (42, 12742), (45, 12766), (50, 12784), (53, 12808), (66, 12967), (75, 13120), (77, 13141), (78, 13186), (79, 13207), (80, 13222), (83, 13333),

Gene: Yeet_31 Start: 18764, Stop: 19496, Start Num: 17

Candidate Starts for Yeet_31:

(Start: 10 @18701 has 26 MA's), (Start: 17 @18764 has 24 MA's), (29, 18896), (36, 18983), (48, 19067), (60, 19181), (64, 19244), (67, 19271), (72, 19310),

Gene: Youngblood_21 Start: 12641, Stop: 13512, Start Num: 18

Candidate Starts for Youngblood_21:

(Start: 10 @12569 has 26 MA's), (Start: 18 @12641 has 86 MA's), (28, 12785), (37, 12878), (41, 12902), (42, 12914), (45, 12938), (50, 12956), (53, 12980), (66, 13139), (75, 13292), (77, 13313), (78, 13358), (79, 13379), (80, 13394), (83, 13505),

Gene: Zelink_34 Start: 19616, Stop: 20348, Start Num: 17

Candidate Starts for Zelink_34:

(Start: 10 @19553 has 26 MA's), (Start: 17 @19616 has 24 MA's), (29, 19748), (36, 19835), (48, 19919), (60, 20033), (64, 20096), (67, 20123), (72, 20162),

Gene: Zilizebeth_16 Start: 9941, Stop: 10859, Start Num: 7

Candidate Starts for Zilizebeth_16:

(Start: 2 @9860 has 3 MA's), (3, 9863), (Start: 7 @9941 has 44 MA's), (32, 10277), (38, 10319), (48, 10379), (60, 10493), (72, 10625), (74, 10691),

Gene: xkcd_21 Start: 12129, Stop: 13003, Start Num: 18

Candidate Starts for xkcd_21:

(Start: 10 @12057 has 26 MA's), (Start: 18 @12129 has 86 MA's), (28, 12273), (37, 12366), (41, 12390), (42, 12402), (45, 12426), (50, 12444), (53, 12468), (66, 12627), (75, 12780), (77, 12801), (78, 12846), (79, 12867), (80, 12882), (83, 12993),