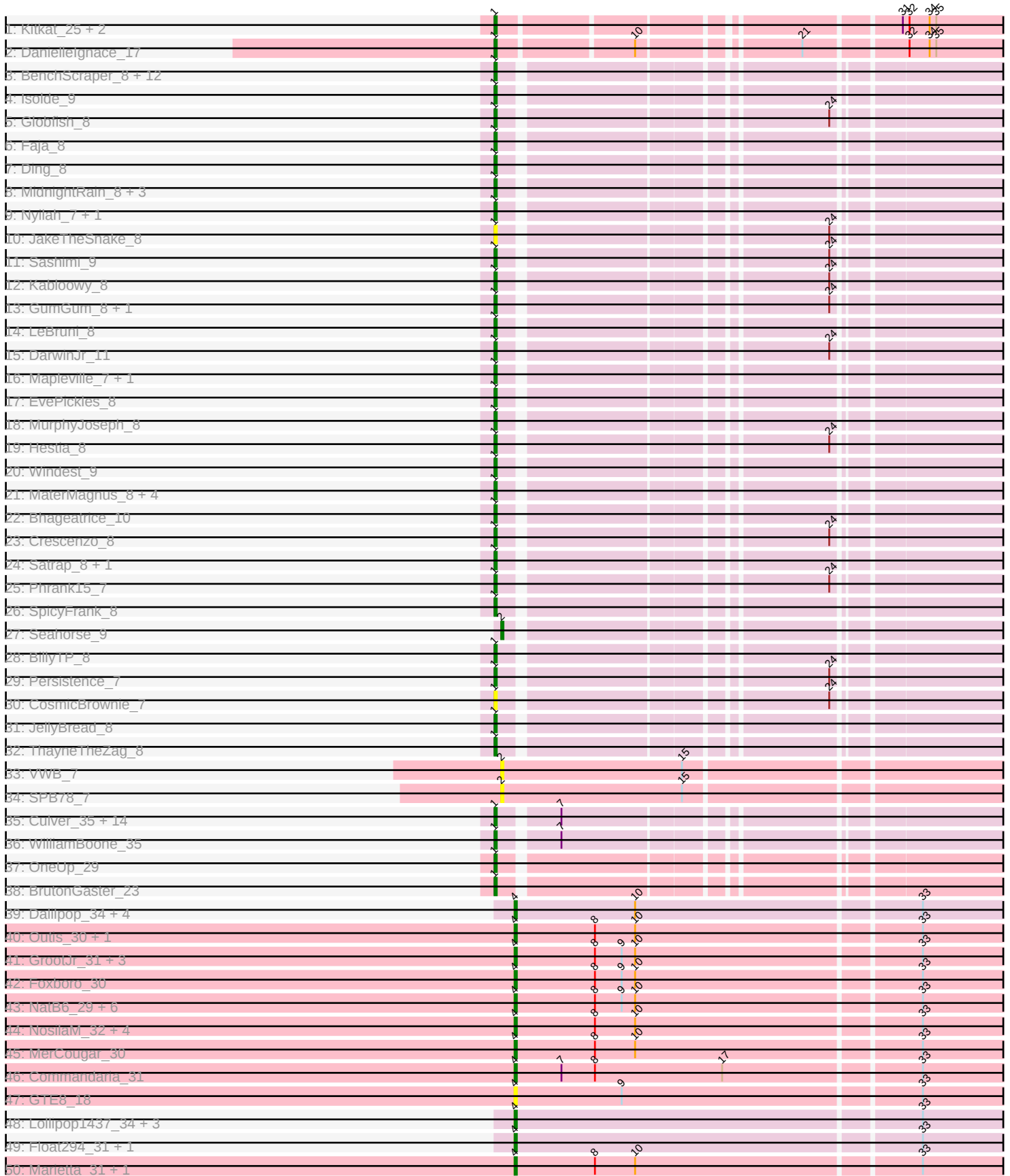
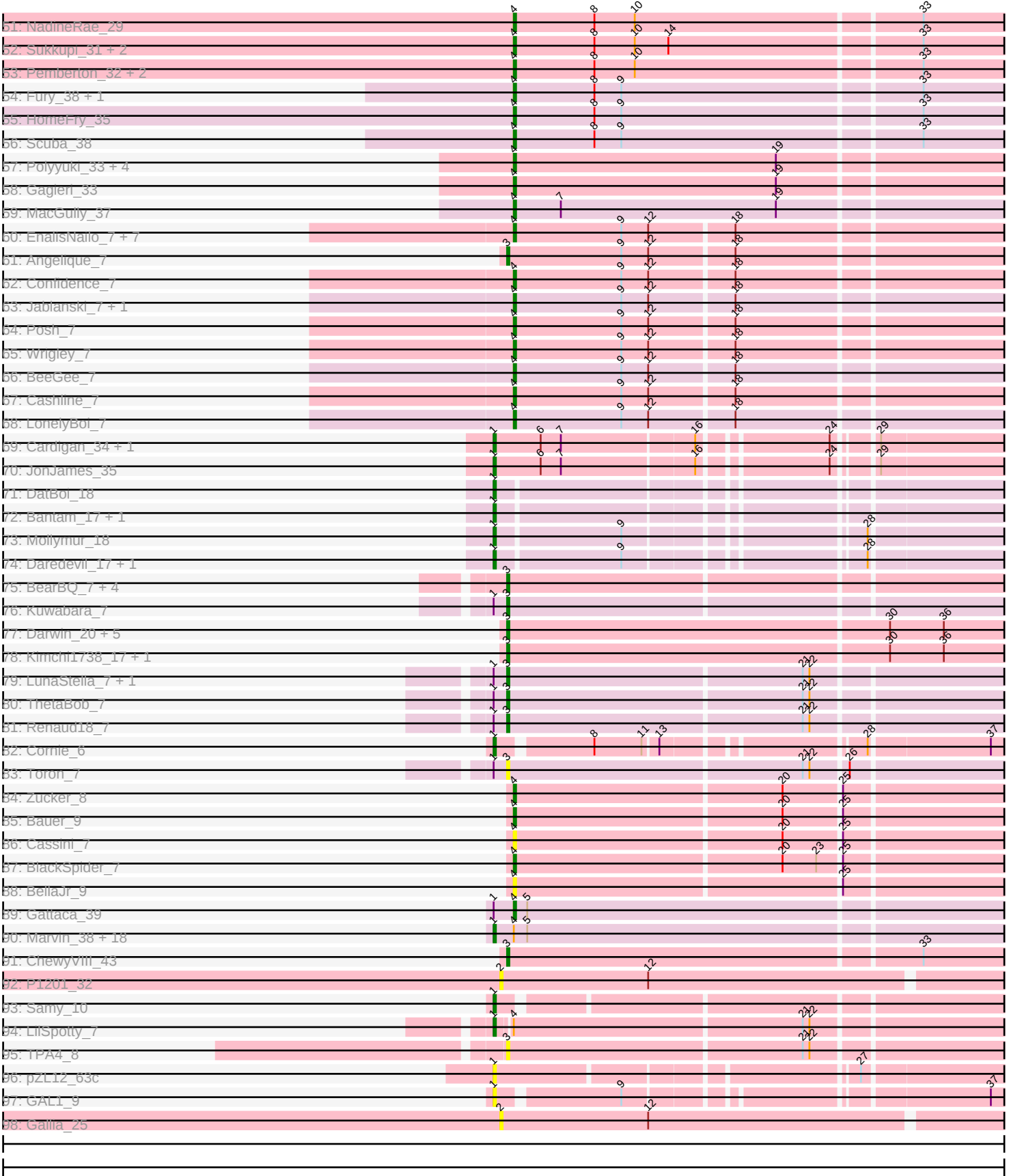


Zoomed Pham 330488



Zoomed Pham 330488



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 330488 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 330488 has 209 members, 24 are drafts.

Phages represented in each track:

- Track 1 : Kitkat_25, KellEzio_24, BeatusComedenti_24
- Track 2 : DanielleIgnace_17
- Track 3 : BenchScraper_8, Auxilium_8, BasketStar_8, Sporco_8, YoungHarleezy_8, CookieBear_8, MUWow_7, Raphaella_8, AdaS_8, Richie_8, Vopal_9, Lasker_8, NewKitty_9
- Track 4 : Isolde_9
- Track 5 : Globfish_8
- Track 6 : Faja_8
- Track 7 : Ding_8
- Track 8 : MidnightRain_8, BlueShadow_8, RadFad_8, Hillester_8
- Track 9 : Nyilah_7, Tiff81_9
- Track 10 : JakeTheSnake_8
- Track 11 : Sashimi_9
- Track 12 : Kabloowy_8
- Track 13 : GumGum_8, Anekin_7
- Track 14 : LeBruni_8
- Track 15 : DarwinJr_11
- Track 16 : Mapleville_7, Lawnathon_8
- Track 17 : EvePickles_8
- Track 18 : MurphyJoseph_8
- Track 19 : Hestia_8
- Track 20 : Windest_9
- Track 21 : MaterMagnus_8, SonDevVon_7, Gorpy_8, Sakai_8, Aikyam_8
- Track 22 : Bhageatrice_10
- Track 23 : Crescenzo_8
- Track 24 : Satrap_8, Shukran_8
- Track 25 : Phrank15_7
- Track 26 : SpicyFrank_8
- Track 27 : Seahorse_9
- Track 28 : BillyTP_8
- Track 29 : Persistence_7
- Track 30 : CosmicBrownie_7
- Track 31 : JellyBread_8

- Track 32 : ThayneTheZag_8
- Track 33 : VWB_7
- Track 34 : SPB78_7
- Track 35 : Culver_35, Miskis_33, Geeche_34, Dusty_34, Lozinak_35, ClubL_35, Abscondus_34, Norvs_36, Cucurbita_37, Engineer_36, Bachita_37, Aphelion_35, Toniann_35, PhinkBoden_35, Smoothie_36
- Track 36 : WilliamBoone_35
- Track 37 : OneUp_29
- Track 38 : BrutonGaster_23
- Track 39 : Dalilpop_34, GRU1_19, Flapper_33, Turuncu_33, GTE5_20
- Track 40 : Outis_30, StarStruck_30
- Track 41 : GrootJr_31, Wheezy_29, Arti_29, NovumRegina_29
- Track 42 : Foxboro_30
- Track 43 : NatB6_29, Kurt_29, KidneyBean_29, Jifall16_28, Phomeo_28, Emianna_29, Tracker_29
- Track 44 : NosilaM_32, Bonum_32, Buggaboo_30, Kabluna_32, SuperSulley_30
- Track 45 : MerCougar_30
- Track 46 : Commandaria_31
- Track 47 : GTE8_18
- Track 48 : Lollipop1437_34, Patio_32, Ennea_35, RedRaider_36
- Track 49 : Float294_31, Skysand_31
- Track 50 : Marietta_31, HubbaBubba_27
- Track 51 : NadineRae_29
- Track 52 : Sukkupi_31, BiPauneto_32, Yndexa_31
- Track 53 : Pemberton_32, WhoseManz_31, IDyn_30
- Track 54 : Fury_38, Pleakley_38
- Track 55 : HomeFry_35
- Track 56 : Scuba_38
- Track 57 : Polyyuki_33, Apiary_33, Maselop_33, CoffeeBean_33, Braxoaddie_33
- Track 58 : Gagieri_33
- Track 59 : MacGully_37
- Track 60 : EnalisNailo_7, Lilas_7, Floral_7, BritBrat_7, Marteenaa_7, Bradissa_7, EMSquaredA_7, Pollux_7
- Track 61 : Angelique_7
- Track 62 : Confidence_7
- Track 63 : Jablanski_7, Pytheas_7
- Track 64 : Posh_7
- Track 65 : Wrigley_7
- Track 66 : BeeGee_7
- Track 67 : Cashline_7
- Track 68 : LonelyBoi_7
- Track 69 : Cardigan_34, Yvonnetastic_33
- Track 70 : JonJames_35
- Track 71 : DatBoi_18
- Track 72 : Bantam_17, SpeedDemon_180
- Track 73 : Mollymur_18
- Track 74 : Daredevil_17, Towmatter_16
- Track 75 : BearBQ_7, MortyNRick_7, Crater_7, Apricot_7, Birdsong_7
- Track 76 : Kuwabara_7
- Track 77 : Darwin_20, PeteyPab_16, Zion_17, Cruella_17, C3PO_17, PotatoChip_17
- Track 78 : Kimchi1738_17, Stickynote_19
- Track 79 : LunaStella_7, TChen_7

- Track 80 : ThetaBob_7
- Track 81 : Renaud18_7
- Track 82 : Cornie_6
- Track 83 : Toron_7
- Track 84 : Zucker_8
- Track 85 : Bauer_9
- Track 86 : Cassini_7
- Track 87 : BlackSpider_7
- Track 88 : BellaJr_9
- Track 89 : Gattaca_39
- Track 90 : Marvin_38, Corazon_38, Beelzebub_44, GoongGoong_39, Clarkson_41, Pringar_40, Tesla_39, VasuNzinga_40, Blackbeetle_40, RedRaider77_40, FeliMaine_42, Lilbit_39, JoieB_41, Poise_40, Huphlepuuff_42, Raela_40, MosMoris_38, Caprice_39, LittleLaf_40
- Track 91 : ChewyVIII_43
- Track 92 : P1201_32
- Track 93 : Samy_10
- Track 94 : LilSpotty_7
- Track 95 : TPA4_8
- Track 96 : pZL12_63c
- Track 97 : GAL1_9
- Track 98 : Gallia_25

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

The start number called the most often in the published annotations is 1, it was called in 94 of the 185 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abscondus_34, AdaS_8, Aikyam_8, Anekin_7, Aphelion_35, Auxilium_8, Bachita_37, Bantam_17, BasketStar_8, BeatusComedenti_24, Beelzebub_44, BenchScraper_8, Bhageatrice_10, BillyTP_8, Blackbeetle_40, BlueShadow_8, BrutonGaster_23, Caprice_39, Cardigan_34, Clarkson_41, ClubL_35, CookieBear_8, Corazon_38, Cornie_6, CosmicBrownie_7, Crescenzo_8, Cucurbita_37, Culver_35, DanielleIgnace_17, Daredevil_17, DarwinJr_11, DatBoi_18, Ding_8, Dusty_34, Engineer_36, EvePickles_8, Faja_8, FeliMaine_42, GAL1_9, Geeche_34, Globfish_8, GoongGoong_39, Gorpy_8, GumGum_8, Hestia_8, Hillester_8, Huphlepuuff_42, Isolde_9, JakeTheSnake_8, JellyBread_8, JoieB_41, JonJames_35, Kabloowy_8, KellEzio_24, Kitkat_25, Lasker_8, Lawnathon_8, LeBruni_8, LilSpotty_7, Lilbit_39, LittleLaf_40, Lozinak_35, MUWow_7, Mapleville_7, Marvin_38, MaterMagnus_8, MidnightRain_8, Miskis_33, Mollymur_18, MosMoris_38, MurphyJoseph_8, NewKitty_9, Norvs_36, Nyilah_7, OneUp_29, Persistence_7, PhinkBoden_35, Phrank15_7, Poise_40, Pringar_40, RadFad_8, Raela_40, Raphaella_8, RedRaider77_40, Richie_8, Sakai_8, Samy_10, Sashimi_9, Satrap_8, Shukran_8, Smoothie_36, SonDevVon_7, SpeedDemon_180, SpicyFrank_8, Sporco_8, Tesla_39, ThayneTheZag_8, Tiff81_9, Toniann_35, Towmatter_16, VasuNzinga_40, Vopal_9, WilliamBoone_35, Windest_9, YoungHarleezy_8, Yvonnetastic_33, pZL12_63c,

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

• Gattaca_39, Kuwabara_7, LunaStella_7, Renaud18_7, TChen_7, ThetaBob_7, Toron_7,

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

• Angelique_7, Apiary_33, Apricot_7, Arti_29, Bauer_9, BearBQ_7, BeeGee_7, BellaJr_9, BiPauneto_32, Birdsong_7, BlackSpider_7, Bonum_32, Bradissa_7, Braxoaddie_33, BritBrat_7, Buggaboo_30, C3PO_17, Cashline_7, Cassini_7, ChewyVIII_43, CoffeeBean_33, Commandaria_31, Confidence_7, Crater_7, Cruella_17, Dalilpop_34, Darwin_20, EMsquaredA_7, Emianna_29, EnalisNailo_7, Ennea_35, Flapper_33, Float294_31, Floral_7, Foxboro_30, Fury_38, GRU1_19, GTE5_20, GTE8_18, Gagieri_33, Gallia_25, GrootJr_31, HomeFry_35, HubbaBubba_27, IDyn_30, Jablanski_7, Jifall16_28, Kabluna_32, KidneyBean_29, Kimchi1738_17, Kurt_29, Lilas_7, Lollipop1437_34, LonelyBoi_7, MacGully_37, Marietta_31, Marteenaa_7, Maselop_33, MerCougar_30, MortyNRick_7, NadineRae_29, NatB6_29, NosilaM_32, NovumRegina_29, Outis_30, P1201_32, Patio_32, Pemberton_32, PeteyPab_16, Phomeo_28, Pleakley_38, Pollux_7, Polyyuki_33, Posh_7, PotatoChip_17, Pytheas_7, RedRaider_36, SPB78_7, Scuba_38, Seahorse_9, Skysand_31, StarStruck_30, Stickynote_19, Sukkupi_31, SuperSulley_30, TPA4_8, Tracker_29, Turuncu_33, VWB_7, Wheezy_29, WhoseManz_31, Wrigley_7, Yndexa_31, Zion_17, Zucker_8,

Summary by start number:

Start 1:

- Found in 114 of 209 (54.5%) of genes in pham
- Manual Annotations of this start: 94 of 185
- Called 93.9% of time when present
- Phage (with cluster) where this start called: Abscondus_34 (CQ1), AdaS_8 (AY), Aikyam_8 (AY), Anekin_7 (AY), Aphelion_35 (CQ1), Auxilium_8 (AY), Bachita_37 (CQ1), Bantam_17 (DL), BasketStar_8 (AY), BeatusComedenti_24 (AT), Beelzebub_44 (S), BenchScraper_8 (AY), Bhageatrice_10 (AY), BillyTP_8 (AY), Blackbeetle_40 (S), BlueShadow_8 (AY), BrutonGaster_23 (CQ2), Caprice_39 (S), Cardigan_34 (DD), Clarkson_41 (S), ClubL_35 (CQ1), CookieBear_8 (AY), Corazon_38 (S), Cornie_6 (F5), CosmicBrownie_7 (AY), Crescenzo_8 (AY), Cucurbita_37 (CQ1), Culver_35 (CQ1), DanielleIgnace_17 (AT), Daredevil_17 (DL), DarwinJr_11 (AY), DatBoi_18 (DL), Ding_8 (AY), Dusty_34 (CQ1), Engineer_36 (CQ1), EvePickles_8 (AY), Faja_8 (AY), FeliMaine_42 (S), GAL1_9 (singleton), Geeche_34 (CQ1), Globfish_8 (AY), GoongGoong_39 (S), Gorpy_8 (AY), GumGum_8 (AY), Hestia_8 (AY), Hillester_8 (AY), Huphlepuuff_42 (S), Isolde_9 (AY), JakeTheSnake_8 (AY), JellyBread_8 (AY), JoieB_41 (S), JonJames_35 (DD), Kabloowy_8 (AY), KellEzio_24 (AT), Kitkat_25 (AT), Lasker_8 (AY), Lawnathon_8 (AY), LeBruni_8 (AY), LilSpotty_7 (singleton), Lilbit_39 (S), LittleLaf_40 (S), Lozinak_35 (CQ1), MUWow_7 (AY), Mapleville_7 (AY), Marvin_38 (S), MaterMagnus_8 (AY), MidnightRain_8 (AY), Miskis_33 (CQ1), Mollymur_18 (DL), MosMoris_38 (S), MurphyJoseph_8 (AY), NewKitty_9 (AY), Norvs_36 (CQ1), Nyilah_7 (AY), OneUp_29 (CQ2), Persistence_7 (AY), PhinkBoden_35 (CQ1), Phrank15_7 (AY), Poise_40 (S), Pringar_40 (S), RadFad_8 (AY), Raela_40 (S), Raphaella_8 (AY), RedRaider77_40 (S), Richie_8 (AY), Sakai_8 (AY), Samy_10 (singleton), Sashimi_9 (AY), Satrap_8 (AY), Shukran_8 (AY), Smoothie_36 (CQ1), SonDevVon_7 (AY), SpeedDemon_180 (DL), SpicyFrank_8 (AY), Sporco_8 (AY), Tesla_39 (S), ThayneTheZag_8 (AY), Tiff81_9 (AY), Toniann_35 (CQ1), Towmatter_16 (DL), VasuNzinga_40 (S), Vopal_9 (AY), WilliamBoone_35 (CQ1), Windest_9 (AY), YoungHarleezy_8 (AY), Yvonnetastic_33 (DD), pZL12_63c

(singleton),

Start 2:

- Found in 5 of 209 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 185
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gallia_25 (singleton), P1201_32 (singleton), SPB78_7 (BA), Seahorse_9 (AY), VWB_7 (BA),

Start 3:

- Found in 22 of 209 (10.5%) of genes in pham
- Manual Annotations of this start: 20 of 185
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angelique_7 (CY1), Apricot_7 (DN3), BearBQ_7 (DN), Birdsong_7 (DN), C3PO_17 (EN), ChewyVIII_43 (singleton), Crater_7 (DN3), Cruella_17 (EN), Darwin_20 (EN), Kimchi1738_17 (EN), Kuwabara_7 (DN4), LunaStella_7 (F4), MortyNRick_7 (DN), PeteyPab_16 (EN), PotatoChip_17 (EN), Renaud18_7 (F4), Stickynote_19 (EN), TChen_7 (F4), TPA4_8 (singleton), ThetaBob_7 (F4), Toron_7 (F6), Zion_17 (EN),

Start 4:

- Found in 95 of 209 (45.5%) of genes in pham
- Manual Annotations of this start: 70 of 185
- Called 78.9% of time when present
- Phage (with cluster) where this start called: Apiary_33 (CR6), Arti_29 (CR2), Bauer_9 (FN), BeeGee_7 (CY5), BellaJr_9 (FN), BiPauneto_32 (CR4), BlackSpider_7 (FN), Bonum_32 (CR2), Bradissa_7 (CY1), Braxoaddie_33 (CR6), BritBrat_7 (CY2), Buggaboo_30 (CR2), Cashline_7 (CY6), Cassini_7 (FN), CoffeeBean_33 (CR6), Commandaria_31 (CR2), Confidence_7 (CY1), Dalilpop_34 (CR1), EMsquaredA_7 (CY1), Emianna_29 (CR2), EnalisNailo_7 (CY1), Ennea_35 (CR3), Flapper_33 (CR1), Float294_31 (CR3), Floral_7 (CY1), Foxboro_30 (CR2), Fury_38 (CR5), GRU1_19 (CR1), GTE5_20 (CR1), GTE8_18 (CR2), Gagieri_33 (CR6), Gattaca_39 (S), GrootJr_31 (CR2), HomeFry_35 (CR5), HubbaBubba_27 (CR4), IDyn_30 (CR4), Jablanski_7 (CY3), Jifall16_28 (CR2), Kabluna_32 (CR2), KidneyBean_29 (CR2), Kurt_29 (CR2), Lilas_7 (CY1), Lollipop1437_34 (CR3), LonelyBoi_7 (CY7), MacGully_37 (CR7), Marietta_31 (CR4), Marteen_7 (CY1), Maselop_33 (CR6), MerCougar_30 (CR2), NadineRae_29 (CR4), NatB6_29 (CR2), NosilaM_32 (CR2), NovumRegina_29 (CR2), Outis_30 (CR2), Patio_32 (CR3), Pemberton_32 (CR4), Phomeo_28 (CR2), Pleakley_38 (CR5), Pollux_7 (CY1), Polyyuki_33 (CR6), Posh_7 (CY4), Pytheas_7 (CY3), RedRaider_36 (CR3), Scuba_38 (CR5), Skysand_31 (CR3), StarStruck_30 (CR2), Sukkupi_31 (CR4), SuperSulley_30 (CR2), Tracker_29 (CR2), Turuncu_33 (CR1), Wheezy_29 (CR2), WhoseManz_31 (CR4), Wrigley_7 (CY4), Yndexa_31 (CR4), Zucker_8 (FN),

Summary by clusters:

There are 31 clusters represented in this pham: DN, DL, BA, DD, singleton, CR7, FN, DN4, DN3, CQ2, CQ1, CY3, CY2, CY1, EN, CY7, CY6, CY5, CY4, S, AT, AY, CR6, F5, CR2, CR3, CR1, F4, CR4, F6, CR5,

Info for manual annotations of cluster AT:

- Start number 1 was manually annotated 4 times for cluster AT.

Info for manual annotations of cluster AY:

- Start number 1 was manually annotated 42 times for cluster AY.
- Start number 2 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 1 was manually annotated 15 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 1 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR1:

- Start number 4 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 4 was manually annotated 21 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 4 was manually annotated 6 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 4 was manually annotated 9 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 4 was manually annotated 4 times for cluster CR5.

Info for manual annotations of cluster CR6:

- Start number 4 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 4 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster CY1:

- Start number 3 was manually annotated 1 time for cluster CY1.
- Start number 4 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 4 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 4 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

- Start number 4 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:

- Start number 4 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:

- Start number 4 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 4 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster DD:

- Start number 1 was manually annotated 3 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 1 was manually annotated 6 times for cluster DL.

Info for manual annotations of cluster DN:

- Start number 3 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN3:

- Start number 3 was manually annotated 2 times for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 3 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster EN:

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

Info for manual annotations of cluster F4:

- Start number 3 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster F5:

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

Info for manual annotations of cluster FN:

- Start number 4 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster S:

- Start number 1 was manually annotated 19 times for cluster S.
- Start number 4 was manually annotated 1 time for cluster S.

Gene Information:

Gene: Abscondus_34 Start: 14077, Stop: 15108, Start Num: 1

Candidate Starts for Abscondus_34:

(Start: 1 @14077 has 94 MA's), (7, 14101), (42, 14311), (44, 14320), (68, 14464), (73, 14497), (74, 14503), (103, 14689), (121, 14761), (124, 14776), (135, 14833), (143, 14851), (159, 14935), (169, 14998), (181, 15085),

Gene: AdaS_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for AdaS_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: Aikyam_8 Start: 5888, Stop: 6928, Start Num: 1

Candidate Starts for Aikyam_8:

(Start: 1 @5888 has 94 MA's), (41, 6116), (46, 6140), (67, 6269), (80, 6374), (84, 6389), (99, 6482), (102, 6500), (106, 6512), (110, 6530), (121, 6572), (125, 6596), (162, 6782), (169, 6821), (174, 6863),

(176, 6878),

Gene: Anekin_7 Start: 6040, Stop: 7080, Start Num: 1

Candidate Starts for Anekin_7:

(Start: 1 @6040 has 94 MA's), (24, 6172), (41, 6268), (44, 6283), (46, 6292), (67, 6421), (80, 6526), (84, 6541), (99, 6634), (106, 6664), (110, 6682), (160, 6919), (162, 6934), (169, 6973), (174, 7015), (176, 7030),

Gene: Angelique_7 Start: 5696, Stop: 6739, Start Num: 3

Candidate Starts for Angelique_7:

(Start: 3 @5696 has 20 MA's), (9, 5747), (12, 5759), (18, 5795), (48, 5969), (52, 5993), (86, 6203), (95, 6254), (101, 6293), (106, 6317), (130, 6431), (132, 6434), (145, 6494), (161, 6581), (166, 6623), (172, 6662),

Gene: Aphelion_35 Start: 14324, Stop: 15352, Start Num: 1

Candidate Starts for Aphelion_35:

(Start: 1 @14324 has 94 MA's), (7, 14348), (42, 14558), (44, 14567), (68, 14711), (73, 14744), (74, 14750), (103, 14936), (121, 15008), (124, 15023), (135, 15080), (143, 15098), (159, 15182), (169, 15245), (181, 15332),

Gene: Apiary_33 Start: 20020, Stop: 21072, Start Num: 4

Candidate Starts for Apiary_33:

(Start: 4 @20020 has 70 MA's), (19, 20137), (39, 20254), (52, 20317), (60, 20362), (77, 20470), (82, 20506), (99, 20605), (111, 20662), (124, 20713), (140, 20800), (172, 20995), (176, 21022), (177, 21028), (184, 21064),

Gene: Apricot_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for Apricot_7:

(Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (97, 5804), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (173, 6185), (177, 6212), (181, 6236),

Gene: Arti_29 Start: 18056, Stop: 19126, Start Num: 4

Candidate Starts for Arti_29:

(Start: 4 @18056 has 70 MA's), (8, 18092), (9, 18104), (10, 18110), (33, 18233), (39, 18290), (60, 18398), (99, 18641), (110, 18689), (120, 18740), (136, 18821), (144, 18860), (150, 18908), (157, 18938), (172, 19049), (176, 19076), (183, 19112), (184, 19118),

Gene: Auxilium_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for Auxilium_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: Bachita_37 Start: 14757, Stop: 15785, Start Num: 1

Candidate Starts for Bachita_37:

(Start: 1 @14757 has 94 MA's), (7, 14781), (42, 14991), (44, 15000), (68, 15144), (73, 15177), (74, 15183), (103, 15369), (121, 15441), (124, 15456), (135, 15513), (143, 15531), (159, 15615), (169, 15678), (181, 15765),

Gene: Bantam_17 Start: 11610, Stop: 12665, Start Num: 1

Candidate Starts for Bantam_17:

(Start: 1 @11610 has 94 MA's), (53, 11907), (65, 11982), (73, 12033), (78, 12081), (99, 12207), (121, 12300), (123, 12312), (124, 12315), (129, 12339), (138, 12387), (142, 12402), (143, 12408), (163,

12522), (164, 12528), (169, 12555),

Gene: BasketStar_8 Start: 5941, Stop: 6981, Start Num: 1

Candidate Starts for BasketStar_8:

(Start: 1 @5941 has 94 MA's), (41, 6169), (46, 6193), (57, 6265), (67, 6322), (80, 6427), (84, 6442), (93, 6493), (94, 6499), (96, 6505), (106, 6565), (110, 6583), (125, 6649), (143, 6727), (162, 6835), (169, 6874), (174, 6916), (176, 6931),

Gene: Bauer_9 Start: 6314, Stop: 7333, Start Num: 4

Candidate Starts for Bauer_9:

(Start: 4 @6314 has 70 MA's), (20, 6431), (25, 6455), (42, 6557), (55, 6629), (63, 6665), (69, 6710), (75, 6749), (88, 6824), (103, 6920), (143, 7070), (149, 7118), (155, 7136), (165, 7199), (168, 7220), (177, 7289),

Gene: BearBQ_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for BearBQ_7:

(Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (97, 5804), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (173, 6185), (177, 6212), (181, 6236),

Gene: BeatusComedenti_24 Start: 12882, Stop: 13964, Start Num: 1

Candidate Starts for BeatusComedenti_24:

(Start: 1 @12882 has 94 MA's), (31, 13041), (32, 13044), (34, 13053), (35, 13056), (54, 13203), (67, 13269), (74, 13329), (78, 13377), (79, 13380), (105, 13548), (125, 13635), (133, 13677), (135, 13683), (142, 13713), (175, 13905), (178, 13920),

Gene: BeeGee_7 Start: 5700, Stop: 6740, Start Num: 4

Candidate Starts for BeeGee_7:

(Start: 4 @5700 has 70 MA's), (9, 5748), (12, 5760), (18, 5796), (48, 5970), (52, 5994), (69, 6099), (85, 6195), (86, 6204), (95, 6255), (101, 6294), (106, 6318), (130, 6432), (132, 6435), (141, 6468), (145, 6495), (161, 6582), (172, 6663),

Gene: Beelzebub_44 Start: 16546, Stop: 17616, Start Num: 1

Candidate Starts for Beelzebub_44:

(Start: 1 @16546 has 94 MA's), (Start: 4 @16555 has 70 MA's), (5, 16561), (40, 16792), (47, 16822), (55, 16873), (56, 16876), (64, 16915), (99, 17158), (121, 17248), (124, 17263), (132, 17305), (143, 17347), (146, 17371), (149, 17395), (152, 17404), (167, 17491), (177, 17560), (181, 17584),

Gene: BellaJr_9 Start: 6377, Stop: 7396, Start Num: 4

Candidate Starts for BellaJr_9:

(Start: 4 @6377 has 70 MA's), (25, 6518), (42, 6620), (55, 6692), (69, 6773), (75, 6812), (80, 6854), (88, 6887), (101, 6968), (124, 7061), (149, 7181), (177, 7352), (182, 7379),

Gene: BenchScraper_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for BenchScraper_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: Bhageatrice_10 Start: 7097, Stop: 8137, Start Num: 1

Candidate Starts for Bhageatrice_10:

(Start: 1 @7097 has 94 MA's), (41, 7325), (46, 7349), (67, 7478), (80, 7583), (84, 7598), (94, 7655), (99, 7691), (106, 7721), (121, 7781), (125, 7805), (169, 8030), (174, 8072), (176, 8087),

Gene: BiPauneto_32 Start: 17934, Stop: 19001, Start Num: 4

Candidate Starts for BiPauneto_32:

(Start: 4 @17934 has 70 MA's), (8, 17970), (10, 17988), (14, 18003), (33, 18111), (39, 18168), (118, 18603), (120, 18618), (136, 18699), (139, 18720), (150, 18786), (172, 18924), (176, 18951),

Gene: BillyTP_8 Start: 5896, Stop: 6936, Start Num: 1

Candidate Starts for BillyTP_8:

(Start: 1 @5896 has 94 MA's), (41, 6124), (46, 6148), (57, 6220), (67, 6277), (80, 6382), (84, 6397), (93, 6448), (94, 6454), (96, 6460), (106, 6520), (110, 6538), (125, 6604), (162, 6790), (169, 6829), (174, 6871), (176, 6886),

Gene: Birdsong_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for Birdsong_7:

(Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (97, 5804), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (173, 6185), (177, 6212), (181, 6236),

Gene: BlackSpider_7 Start: 5373, Stop: 6392, Start Num: 4

Candidate Starts for BlackSpider_7:

(Start: 4 @5373 has 70 MA's), (20, 5490), (23, 5505), (25, 5514), (42, 5616), (55, 5688), (63, 5724), (75, 5808), (85, 5865), (88, 5883), (103, 5979), (143, 6129), (149, 6177), (165, 6258), (168, 6279), (177, 6348),

Gene: Blackbeetle_40 Start: 15565, Stop: 16635, Start Num: 1

Candidate Starts for Blackbeetle_40:

(Start: 1 @15565 has 94 MA's), (Start: 4 @15574 has 70 MA's), (5, 15580), (40, 15811), (47, 15841), (55, 15892), (56, 15895), (64, 15934), (99, 16177), (121, 16267), (124, 16282), (132, 16324), (143, 16366), (146, 16390), (149, 16414), (152, 16423), (167, 16510), (177, 16579), (181, 16603),

Gene: BlueShadow_8 Start: 5887, Stop: 6927, Start Num: 1

Candidate Starts for BlueShadow_8:

(Start: 1 @5887 has 94 MA's), (41, 6115), (57, 6211), (67, 6268), (78, 6355), (80, 6373), (84, 6388), (99, 6481), (106, 6511), (110, 6529), (162, 6781), (169, 6820), (174, 6862), (176, 6877),

Gene: Bonum_32 Start: 18390, Stop: 19460, Start Num: 4

Candidate Starts for Bonum_32:

(Start: 4 @18390 has 70 MA's), (8, 18426), (10, 18444), (33, 18567), (60, 18732), (90, 18918), (92, 18930), (102, 18993), (109, 19020), (116, 19050), (119, 19071), (120, 19074), (136, 19155), (139, 19176), (150, 19242), (157, 19272), (172, 19383), (176, 19410), (181, 19440), (184, 19452),

Gene: Bradissa_7 Start: 5704, Stop: 6744, Start Num: 4

Candidate Starts for Bradissa_7:

(Start: 4 @5704 has 70 MA's), (9, 5752), (12, 5764), (18, 5800), (48, 5974), (52, 5998), (86, 6208), (95, 6259), (101, 6298), (106, 6322), (124, 6397), (130, 6436), (132, 6439), (141, 6472), (145, 6499), (161, 6586), (166, 6628), (172, 6667), (178, 6703),

Gene: Braxoaddie_33 Start: 20009, Stop: 21061, Start Num: 4

Candidate Starts for Braxoaddie_33:

(Start: 4 @20009 has 70 MA's), (19, 20126), (39, 20243), (52, 20306), (60, 20351), (77, 20459), (82, 20495), (99, 20594), (111, 20651), (124, 20702), (140, 20789), (172, 20984), (176, 21011), (177, 21017), (184, 21053),

Gene: BritBrat_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for BritBrat_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: BrutonGaster_23 Start: 11028, Stop: 12071, Start Num: 1

Candidate Starts for BrutonGaster_23:

(Start: 1 @11028 has 94 MA's), (42, 11262), (44, 11271), (68, 11415), (73, 11448), (80, 11511), (99, 11619), (103, 11640), (121, 11712), (130, 11766), (143, 11802), (163, 11916), (170, 11952),

Gene: Buggaboo_30 Start: 18875, Stop: 19945, Start Num: 4

Candidate Starts for Buggaboo_30:

(Start: 4 @18875 has 70 MA's), (8, 18911), (10, 18929), (33, 19052), (60, 19217), (90, 19403), (92, 19415), (102, 19478), (109, 19505), (116, 19535), (119, 19556), (120, 19559), (136, 19640), (139, 19661), (150, 19727), (157, 19757), (172, 19868), (176, 19895), (181, 19925), (184, 19937),

Gene: C3PO_17 Start: 12594, Stop: 13658, Start Num: 3

Candidate Starts for C3PO_17:

(Start: 3 @12594 has 20 MA's), (30, 12762), (36, 12786), (43, 12849), (52, 12897), (100, 13191), (101, 13194), (109, 13233), (124, 13290), (141, 13386), (149, 13443), (157, 13476), (176, 13608), (178, 13617), (184, 13650),

Gene: Caprice_39 Start: 15635, Stop: 16705, Start Num: 1

Candidate Starts for Caprice_39:

(Start: 1 @15635 has 94 MA's), (Start: 4 @15644 has 70 MA's), (5, 15650), (40, 15881), (47, 15911), (55, 15962), (56, 15965), (64, 16004), (99, 16247), (121, 16337), (124, 16352), (132, 16394), (143, 16436), (146, 16460), (149, 16484), (152, 16493), (167, 16580), (177, 16649), (181, 16673),

Gene: Cardigan_34 Start: 16281, Stop: 17330, Start Num: 1

Candidate Starts for Cardigan_34:

(Start: 1 @16281 has 94 MA's), (6, 16302), (7, 16311), (16, 16368), (24, 16419), (29, 16434), (99, 16878), (101, 16884), (115, 16944), (123, 16983), (159, 17145), (186, 17313),

Gene: Cashline_7 Start: 5553, Stop: 6593, Start Num: 4

Candidate Starts for Cashline_7:

(Start: 4 @5553 has 70 MA's), (9, 5601), (12, 5613), (18, 5649), (44, 5805), (48, 5823), (52, 5847), (86, 6057), (95, 6108), (101, 6147), (102, 6159), (106, 6171), (124, 6246), (130, 6285), (132, 6288), (141, 6321), (145, 6348), (161, 6435), (166, 6477), (172, 6516), (173, 6522),

Gene: Cassini_7 Start: 5347, Stop: 6366, Start Num: 4

Candidate Starts for Cassini_7:

(Start: 4 @5347 has 70 MA's), (20, 5464), (25, 5488), (42, 5590), (55, 5662), (63, 5698), (69, 5743), (74, 5767), (88, 5857), (103, 5953), (143, 6103), (146, 6127), (149, 6151), (165, 6232), (168, 6253), (177, 6322),

Gene: ChewyVIII_43 Start: 25603, Stop: 26664, Start Num: 3

Candidate Starts for ChewyVIII_43:

(Start: 3 @25603 has 20 MA's), (33, 25783), (39, 25840), (81, 26089), (92, 26146), (111, 26248), (146, 26422), (159, 26488), (167, 26548), (170, 26557), (171, 26584), (172, 26587), (184, 26656),

Gene: Clarkson_41 Start: 16247, Stop: 17317, Start Num: 1

Candidate Starts for Clarkson_41:

(Start: 1 @16247 has 94 MA's), (Start: 4 @16256 has 70 MA's), (5, 16262), (40, 16493), (47, 16523), (55, 16574), (56, 16577), (64, 16616), (99, 16859), (121, 16949), (124, 16964), (132, 17006), (143,

17048), (146, 17072), (149, 17096), (152, 17105), (167, 17192), (177, 17261), (181, 17285),

Gene: ClubL_35 Start: 14258, Stop: 15286, Start Num: 1

Candidate Starts for ClubL_35:

(Start: 1 @14258 has 94 MA's), (7, 14282), (42, 14492), (44, 14501), (68, 14645), (73, 14678), (74, 14684), (103, 14870), (121, 14942), (124, 14957), (135, 15014), (143, 15032), (159, 15116), (169, 15179), (181, 15266),

Gene: CoffeeBean_33 Start: 19964, Stop: 21016, Start Num: 4

Candidate Starts for CoffeeBean_33:

(Start: 4 @19964 has 70 MA's), (19, 20081), (39, 20198), (52, 20261), (60, 20306), (77, 20414), (82, 20450), (99, 20549), (111, 20606), (124, 20657), (140, 20744), (172, 20939), (176, 20966), (177, 20972), (184, 21008),

Gene: Commandaria_31 Start: 19386, Stop: 20456, Start Num: 4

Candidate Starts for Commandaria_31:

(Start: 4 @19386 has 70 MA's), (7, 19407), (8, 19422), (17, 19479), (33, 19563), (39, 19620), (49, 19662), (60, 19728), (110, 20019), (118, 20055), (120, 20070), (136, 20151), (150, 20238), (157, 20268), (165, 20319), (172, 20379), (176, 20406), (183, 20442), (184, 20448),

Gene: Confidence_7 Start: 5700, Stop: 6740, Start Num: 4

Candidate Starts for Confidence_7:

(Start: 4 @5700 has 70 MA's), (9, 5748), (12, 5760), (18, 5796), (48, 5970), (52, 5994), (69, 6099), (85, 6195), (86, 6204), (95, 6255), (101, 6294), (106, 6318), (130, 6432), (132, 6435), (141, 6468), (145, 6495), (161, 6582), (166, 6624), (172, 6663),

Gene: CookieBear_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for CookieBear_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: Corazon_38 Start: 16200, Stop: 17270, Start Num: 1

Candidate Starts for Corazon_38:

(Start: 1 @16200 has 94 MA's), (Start: 4 @16209 has 70 MA's), (5, 16215), (40, 16446), (47, 16476), (55, 16527), (56, 16530), (64, 16569), (99, 16812), (121, 16902), (124, 16917), (132, 16959), (143, 17001), (146, 17025), (149, 17049), (152, 17058), (167, 17145), (177, 17214), (181, 17238),

Gene: Cornie_6 Start: 4881, Stop: 5933, Start Num: 1

Candidate Starts for Cornie_6:

(Start: 1 @4881 has 94 MA's), (8, 4920), (11, 4941), (13, 4947), (28, 5025), (37, 5076), (58, 5208), (65, 5250), (75, 5322), (89, 5406), (99, 5475), (102, 5493), (113, 5535), (121, 5565), (145, 5685), (156, 5736), (163, 5781), (170, 5817), (176, 5871),

Gene: CosmicBrownie_7 Start: 6018, Stop: 7058, Start Num: 1

Candidate Starts for CosmicBrownie_7:

(Start: 1 @6018 has 94 MA's), (24, 6150), (41, 6246), (46, 6270), (67, 6399), (78, 6486), (84, 6519), (96, 6582), (106, 6642), (110, 6660), (160, 6897), (162, 6912), (169, 6951), (176, 7008),

Gene: Crater_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for Crater_7:

(Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (97, 5804), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (173, 6185), (177, 6212), (181, 6236),

Gene: Crescenzo_8 Start: 5968, Stop: 7008, Start Num: 1

Candidate Starts for Crescenzo_8:

(Start: 1 @5968 has 94 MA's), (24, 6100), (41, 6196), (44, 6211), (46, 6220), (67, 6349), (80, 6454), (84, 6469), (96, 6532), (106, 6592), (110, 6610), (160, 6847), (162, 6862), (169, 6901), (174, 6943), (176, 6958),

Gene: Cruella_17 Start: 12594, Stop: 13658, Start Num: 3

Candidate Starts for Cruella_17:

(Start: 3 @12594 has 20 MA's), (30, 12762), (36, 12786), (43, 12849), (52, 12897), (100, 13191), (101, 13194), (109, 13233), (124, 13290), (141, 13386), (149, 13443), (157, 13476), (176, 13608), (178, 13617), (184, 13650),

Gene: Cucurbita_37 Start: 15616, Stop: 16644, Start Num: 1

Candidate Starts for Cucurbita_37:

(Start: 1 @15616 has 94 MA's), (7, 15640), (42, 15850), (44, 15859), (68, 16003), (73, 16036), (74, 16042), (103, 16228), (121, 16300), (124, 16315), (135, 16372), (143, 16390), (159, 16474), (169, 16537), (181, 16624),

Gene: Culver_35 Start: 14077, Stop: 15108, Start Num: 1

Candidate Starts for Culver_35:

(Start: 1 @14077 has 94 MA's), (7, 14101), (42, 14311), (44, 14320), (68, 14464), (73, 14497), (74, 14503), (103, 14689), (121, 14761), (124, 14776), (135, 14833), (143, 14851), (159, 14935), (169, 14998), (181, 15085),

Gene: Dalilpop_34 Start: 20415, Stop: 21476, Start Num: 4

Candidate Starts for Dalilpop_34:

(Start: 4 @20415 has 70 MA's), (10, 20469), (33, 20592), (39, 20649), (49, 20691), (77, 20865), (112, 21063), (172, 21399), (176, 21426), (177, 21432), (184, 21468),

Gene: DanielleIgnace_17 Start: 12091, Stop: 13170, Start Num: 1

Candidate Starts for DanielleIgnace_17:

(Start: 1 @12091 has 94 MA's), (10, 12148), (21, 12211), (32, 12253), (34, 12262), (35, 12265), (40, 12319), (58, 12424), (61, 12445), (67, 12478), (72, 12520), (74, 12538), (100, 12733), (125, 12844), (135, 12892), (153, 12985), (168, 13060), (178, 13129), (180, 13144),

Gene: Daredevil_17 Start: 10493, Stop: 11542, Start Num: 1

Candidate Starts for Daredevil_17:

(Start: 1 @10493 has 94 MA's), (9, 10547), (28, 10640), (53, 10790), (73, 10916), (78, 10964), (93, 11048), (99, 11090), (101, 11096), (102, 11108), (124, 11198), (129, 11222), (130, 11237), (137, 11264), (140, 11273), (147, 11312), (154, 11345), (162, 11393), (164, 11405), (169, 11432), (184, 11534),

Gene: Darwin_20 Start: 13339, Stop: 14403, Start Num: 3

Candidate Starts for Darwin_20:

(Start: 3 @13339 has 20 MA's), (30, 13507), (36, 13531), (43, 13594), (52, 13642), (100, 13936), (101, 13939), (109, 13978), (124, 14035), (141, 14131), (149, 14188), (157, 14221), (176, 14353), (178, 14362), (184, 14395),

Gene: DarwinJr_11 Start: 7271, Stop: 8311, Start Num: 1

Candidate Starts for DarwinJr_11:

(Start: 1 @7271 has 94 MA's), (24, 7403), (41, 7499), (44, 7514), (46, 7523), (67, 7652), (80, 7757), (84, 7772), (99, 7865), (106, 7895), (160, 8150), (162, 8165), (169, 8204), (174, 8246), (176, 8261),

Gene: DatBoi_18 Start: 12446, Stop: 13501, Start Num: 1

Candidate Starts for DatBoi_18:

(Start: 1 @12446 has 94 MA's), (53, 12743), (65, 12818), (73, 12869), (78, 12917), (99, 13043), (121, 13136), (123, 13148), (124, 13151), (129, 13175), (138, 13223), (142, 13238), (144, 13247), (163, 13358), (164, 13364), (169, 13391),

Gene: Ding_8 Start: 5913, Stop: 6953, Start Num: 1

Candidate Starts for Ding_8:

(Start: 1 @5913 has 94 MA's), (41, 6141), (46, 6165), (67, 6294), (80, 6399), (84, 6414), (99, 6507), (100, 6510), (106, 6537), (121, 6597), (125, 6621), (137, 6678), (160, 6792), (169, 6846), (174, 6888), (176, 6903), (177, 6909),

Gene: Dusty_34 Start: 14077, Stop: 15108, Start Num: 1

Candidate Starts for Dusty_34:

(Start: 1 @14077 has 94 MA's), (7, 14101), (42, 14311), (44, 14320), (68, 14464), (73, 14497), (74, 14503), (103, 14689), (121, 14761), (124, 14776), (135, 14833), (143, 14851), (159, 14935), (169, 14998), (181, 15085),

Gene: EMSquaredA_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for EMSquaredA_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Emianna_29 Start: 19095, Stop: 20165, Start Num: 4

Candidate Starts for Emianna_29:

(Start: 4 @19095 has 70 MA's), (8, 19131), (9, 19143), (10, 19149), (33, 19272), (39, 19329), (60, 19437), (84, 19590), (99, 19680), (110, 19728), (120, 19779), (136, 19860), (144, 19899), (150, 19947), (157, 19977), (172, 20088), (176, 20115), (183, 20151), (184, 20157),

Gene: EnalisNailo_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for EnalisNailo_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Engineer_36 Start: 14272, Stop: 15300, Start Num: 1

Candidate Starts for Engineer_36:

(Start: 1 @14272 has 94 MA's), (7, 14296), (42, 14506), (44, 14515), (68, 14659), (73, 14692), (74, 14698), (103, 14884), (121, 14956), (124, 14971), (135, 15028), (143, 15046), (159, 15130), (169, 15193), (181, 15280),

Gene: Ennea_35 Start: 19712, Stop: 20773, Start Num: 4

Candidate Starts for Ennea_35:

(Start: 4 @19712 has 70 MA's), (33, 19889), (39, 19946), (60, 20054), (77, 20162), (112, 20360), (172, 20696), (176, 20723), (184, 20765),

Gene: EvePickles_8 Start: 5944, Stop: 6984, Start Num: 1

Candidate Starts for EvePickles_8:

(Start: 1 @5944 has 94 MA's), (41, 6172), (46, 6196), (57, 6268), (67, 6325), (80, 6430), (84, 6445), (94, 6502), (96, 6508), (100, 6541), (106, 6568), (110, 6586), (125, 6652), (162, 6838), (169, 6877), (176, 6934),

Gene: Faja_8 Start: 5888, Stop: 6928, Start Num: 1

Candidate Starts for Faja_8:

(Start: 1 @5888 has 94 MA's), (41, 6116), (46, 6140), (67, 6269), (80, 6374), (84, 6389), (99, 6482), (102, 6500), (106, 6512), (110, 6530), (121, 6572), (125, 6596), (162, 6782), (169, 6821), (174, 6863), (176, 6878), (177, 6884),

Gene: FeliMaine_42 Start: 16248, Stop: 17318, Start Num: 1

Candidate Starts for FeliMaine_42:

(Start: 1 @16248 has 94 MA's), (Start: 4 @16257 has 70 MA's), (5, 16263), (40, 16494), (47, 16524), (55, 16575), (56, 16578), (64, 16617), (99, 16860), (121, 16950), (124, 16965), (132, 17007), (143, 17049), (146, 17073), (149, 17097), (152, 17106), (167, 17193), (177, 17262), (181, 17286),

Gene: Flapper_33 Start: 19496, Stop: 20557, Start Num: 4

Candidate Starts for Flapper_33:

(Start: 4 @19496 has 70 MA's), (10, 19550), (33, 19673), (39, 19730), (49, 19772), (77, 19946), (112, 20144), (172, 20480), (176, 20507), (177, 20513), (184, 20549),

Gene: Float294_31 Start: 19154, Stop: 20215, Start Num: 4

Candidate Starts for Float294_31:

(Start: 4 @19154 has 70 MA's), (33, 19331), (39, 19388), (60, 19496), (77, 19604), (112, 19802), (136, 19913), (172, 20138), (176, 20165), (184, 20207),

Gene: Floral_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for Floral_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Foxboro_30 Start: 19601, Stop: 20671, Start Num: 4

Candidate Starts for Foxboro_30:

(Start: 4 @19601 has 70 MA's), (8, 19637), (9, 19649), (10, 19655), (33, 19778), (39, 19835), (60, 19943), (84, 20096), (99, 20186), (110, 20234), (120, 20285), (136, 20366), (144, 20405), (150, 20453), (157, 20483), (172, 20594), (176, 20621), (178, 20630), (183, 20657), (184, 20663),

Gene: Fury_38 Start: 18776, Stop: 19837, Start Num: 4

Candidate Starts for Fury_38:

(Start: 4 @18776 has 70 MA's), (8, 18812), (9, 18824), (33, 18953), (110, 19409), (131, 19514), (167, 19721), (172, 19760), (176, 19787), (184, 19829),

Gene: GAL1_9 Start: 6815, Stop: 7852, Start Num: 1

Candidate Starts for GAL1_9:

(Start: 1 @6815 has 94 MA's), (9, 6866), (37, 7010), (56, 7136), (64, 7175), (65, 7184), (67, 7196), (78, 7280), (101, 7415), (113, 7469), (137, 7577), (153, 7655), (156, 7667), (176, 7802), (182, 7835), (184, 7844),

Gene: GRU1_19 Start: 11381, Stop: 12442, Start Num: 4

Candidate Starts for GRU1_19:

(Start: 4 @11381 has 70 MA's), (10, 11435), (33, 11558), (39, 11615), (49, 11657), (77, 11831), (112, 12029), (172, 12365), (176, 12392), (177, 12398), (184, 12434),

Gene: GTE5_20 Start: 12384, Stop: 13445, Start Num: 4

Candidate Starts for GTE5_20:

(Start: 4 @12384 has 70 MA's), (10, 12438), (33, 12561), (39, 12618), (49, 12660), (77, 12834), (112, 13032), (172, 13368), (176, 13395), (177, 13401), (184, 13437),

Gene: GTE8_18 Start: 12360, Stop: 13430, Start Num: 4

Candidate Starts for GTE8_18:

(Start: 4 @12360 has 70 MA's), (9, 12408), (33, 12537), (39, 12594), (60, 12702), (99, 12945), (110, 12993), (120, 13044), (136, 13125), (144, 13164), (150, 13212), (157, 13242), (172, 13353), (176, 13380), (183, 13416), (184, 13422),

Gene: Gagieri_33 Start: 19811, Stop: 20863, Start Num: 4

Candidate Starts for Gagieri_33:

(Start: 4 @19811 has 70 MA's), (19, 19928), (60, 20153), (77, 20261), (99, 20396), (172, 20786), (176, 20813), (181, 20843), (183, 20849), (184, 20855),

Gene: Gallia_25 Start: 16350, Stop: 17435, Start Num: 2

Candidate Starts for Gallia_25:

(Start: 2 @16350 has 1 MA's), (12, 16416), (44, 16611), (70, 16758), (101, 16950), (110, 16992), (124, 17055), (143, 17163), (151, 17220), (176, 17385), (184, 17427),

Gene: Gattaca_39 Start: 15436, Stop: 16497, Start Num: 4

Candidate Starts for Gattaca_39:

(Start: 1 @15427 has 94 MA's), (Start: 4 @15436 has 70 MA's), (5, 15442), (40, 15673), (47, 15703), (55, 15754), (56, 15757), (64, 15796), (99, 16039), (121, 16129), (124, 16144), (132, 16186), (143, 16228), (146, 16252), (149, 16276), (152, 16285), (167, 16372), (177, 16441), (181, 16465),

Gene: Geeche_34 Start: 14146, Stop: 15174, Start Num: 1

Candidate Starts for Geeche_34:

(Start: 1 @14146 has 94 MA's), (7, 14170), (42, 14380), (44, 14389), (68, 14533), (73, 14566), (74, 14572), (103, 14758), (121, 14830), (124, 14845), (135, 14902), (143, 14920), (159, 15004), (169, 15067), (181, 15154),

Gene: Globfish_8 Start: 5947, Stop: 6987, Start Num: 1

Candidate Starts for Globfish_8:

(Start: 1 @5947 has 94 MA's), (24, 6079), (41, 6175), (46, 6199), (57, 6271), (67, 6328), (84, 6448), (94, 6505), (96, 6511), (100, 6544), (102, 6559), (106, 6571), (110, 6589), (121, 6631), (125, 6655), (132, 6691), (160, 6826), (162, 6841), (167, 6874), (174, 6922), (176, 6937),

Gene: GoongGoong_39 Start: 15467, Stop: 16537, Start Num: 1

Candidate Starts for GoongGoong_39:

(Start: 1 @15467 has 94 MA's), (Start: 4 @15476 has 70 MA's), (5, 15482), (40, 15713), (47, 15743), (55, 15794), (56, 15797), (64, 15836), (99, 16079), (121, 16169), (124, 16184), (132, 16226), (143, 16268), (146, 16292), (149, 16316), (152, 16325), (167, 16412), (177, 16481), (181, 16505),

Gene: Gorpy_8 Start: 5896, Stop: 6936, Start Num: 1

Candidate Starts for Gorpy_8:

(Start: 1 @5896 has 94 MA's), (41, 6124), (46, 6148), (67, 6277), (80, 6382), (84, 6397), (99, 6490), (102, 6508), (106, 6520), (110, 6538), (121, 6580), (125, 6604), (162, 6790), (169, 6829), (174, 6871), (176, 6886),

Gene: GrootJr_31 Start: 18451, Stop: 19521, Start Num: 4

Candidate Starts for GrootJr_31:

(Start: 4 @18451 has 70 MA's), (8, 18487), (9, 18499), (10, 18505), (33, 18628), (39, 18685), (60, 18793), (99, 19036), (110, 19084), (120, 19135), (136, 19216), (144, 19255), (150, 19303), (157,

19333), (172, 19444), (176, 19471), (183, 19507), (184, 19513),

Gene: GumGum_8 Start: 5972, Stop: 7012, Start Num: 1

Candidate Starts for GumGum_8:

(Start: 1 @5972 has 94 MA's), (24, 6104), (41, 6200), (44, 6215), (46, 6224), (67, 6353), (80, 6458), (84, 6473), (99, 6566), (106, 6596), (110, 6614), (160, 6851), (162, 6866), (169, 6905), (174, 6947), (176, 6962),

Gene: Hestia_8 Start: 6036, Stop: 7076, Start Num: 1

Candidate Starts for Hestia_8:

(Start: 1 @6036 has 94 MA's), (24, 6168), (41, 6264), (44, 6279), (46, 6288), (65, 6405), (67, 6417), (78, 6504), (80, 6522), (84, 6537), (96, 6600), (106, 6660), (110, 6678), (160, 6915), (162, 6930), (169, 6969), (174, 7011), (176, 7026),

Gene: Hillester_8 Start: 5887, Stop: 6927, Start Num: 1

Candidate Starts for Hillester_8:

(Start: 1 @5887 has 94 MA's), (41, 6115), (57, 6211), (67, 6268), (78, 6355), (80, 6373), (84, 6388), (99, 6481), (106, 6511), (110, 6529), (162, 6781), (169, 6820), (174, 6862), (176, 6877),

Gene: HomeFry_35 Start: 17448, Stop: 18509, Start Num: 4

Candidate Starts for HomeFry_35:

(Start: 4 @17448 has 70 MA's), (8, 17484), (9, 17496), (33, 17625), (60, 17790), (110, 18081), (131, 18186), (172, 18432), (176, 18459), (184, 18501),

Gene: HubbaBubba_27 Start: 14952, Stop: 16019, Start Num: 4

Candidate Starts for HubbaBubba_27:

(Start: 4 @14952 has 70 MA's), (8, 14988), (10, 15006), (33, 15129), (39, 15186), (118, 15621), (120, 15636), (139, 15738), (150, 15804), (172, 15942), (176, 15969),

Gene: Huphlepuuff_42 Start: 16052, Stop: 17122, Start Num: 1

Candidate Starts for Huphlepuuff_42:

(Start: 1 @16052 has 94 MA's), (Start: 4 @16061 has 70 MA's), (5, 16067), (40, 16298), (47, 16328), (55, 16379), (56, 16382), (64, 16421), (99, 16664), (121, 16754), (124, 16769), (132, 16811), (143, 16853), (146, 16877), (149, 16901), (152, 16910), (167, 16997), (177, 17066), (181, 17090),

Gene: IDyn_30 Start: 16348, Stop: 17415, Start Num: 4

Candidate Starts for IDyn_30:

(Start: 4 @16348 has 70 MA's), (8, 16384), (10, 16402), (33, 16525), (39, 16582), (118, 17017), (120, 17032), (136, 17113), (139, 17134), (150, 17200), (172, 17338), (176, 17365),

Gene: Isolde_9 Start: 5959, Stop: 6999, Start Num: 1

Candidate Starts for Isolde_9:

(Start: 1 @5959 has 94 MA's), (41, 6187), (44, 6202), (46, 6211), (67, 6340), (100, 6556), (106, 6583), (110, 6601), (121, 6643), (160, 6838), (162, 6853), (169, 6892), (174, 6934), (176, 6949),

Gene: Jablanski_7 Start: 5553, Stop: 6593, Start Num: 4

Candidate Starts for Jablanski_7:

(Start: 4 @5553 has 70 MA's), (9, 5601), (12, 5613), (18, 5649), (48, 5823), (52, 5847), (86, 6057), (95, 6108), (101, 6147), (106, 6171), (124, 6246), (130, 6285), (132, 6288), (141, 6321), (145, 6348), (161, 6435), (166, 6477), (172, 6516),

Gene: JakeTheSnake_8 Start: 5927, Stop: 6967, Start Num: 1

Candidate Starts for JakeTheSnake_8:

(Start: 1 @5927 has 94 MA's), (24, 6059), (41, 6155), (46, 6179), (67, 6308), (80, 6413), (84, 6428), (106, 6551), (110, 6569), (121, 6611), (160, 6806), (162, 6821), (169, 6860), (174, 6902), (176, 6917),

Gene: JellyBread_8 Start: 5895, Stop: 6935, Start Num: 1

Candidate Starts for JellyBread_8:

(Start: 1 @5895 has 94 MA's), (41, 6123), (46, 6147), (51, 6174), (57, 6219), (67, 6276), (80, 6381), (84, 6396), (93, 6447), (94, 6453), (96, 6459), (106, 6519), (110, 6537), (125, 6603), (143, 6681), (162, 6789), (169, 6828), (174, 6870), (176, 6885),

Gene: Jifall16_28 Start: 18731, Stop: 19801, Start Num: 4

Candidate Starts for Jifall16_28:

(Start: 4 @18731 has 70 MA's), (8, 18767), (9, 18779), (10, 18785), (33, 18908), (39, 18965), (60, 19073), (84, 19226), (99, 19316), (110, 19364), (120, 19415), (136, 19496), (144, 19535), (150, 19583), (157, 19613), (172, 19724), (176, 19751), (183, 19787), (184, 19793),

Gene: JoieB_41 Start: 16271, Stop: 17341, Start Num: 1

Candidate Starts for JoieB_41:

(Start: 1 @16271 has 94 MA's), (Start: 4 @16280 has 70 MA's), (5, 16286), (40, 16517), (47, 16547), (55, 16598), (56, 16601), (64, 16640), (99, 16883), (121, 16973), (124, 16988), (132, 17030), (143, 17072), (146, 17096), (149, 17120), (152, 17129), (167, 17216), (177, 17285), (181, 17309),

Gene: JonJames_35 Start: 18496, Stop: 19545, Start Num: 1

Candidate Starts for JonJames_35:

(Start: 1 @18496 has 94 MA's), (6, 18517), (7, 18526), (16, 18583), (24, 18634), (29, 18649), (75, 18943), (99, 19093), (101, 19099), (115, 19159), (123, 19198), (159, 19360), (186, 19528),

Gene: Kabloowy_8 Start: 5969, Stop: 7009, Start Num: 1

Candidate Starts for Kabloowy_8:

(Start: 1 @5969 has 94 MA's), (24, 6101), (41, 6197), (46, 6221), (67, 6350), (80, 6455), (106, 6593), (110, 6611), (121, 6653), (160, 6848), (162, 6863), (169, 6902), (174, 6944), (176, 6959),

Gene: Kabluna_32 Start: 17790, Stop: 18860, Start Num: 4

Candidate Starts for Kabluna_32:

(Start: 4 @17790 has 70 MA's), (8, 17826), (10, 17844), (33, 17967), (60, 18132), (90, 18318), (92, 18330), (102, 18393), (109, 18420), (116, 18450), (119, 18471), (120, 18474), (136, 18555), (139, 18576), (150, 18642), (157, 18672), (172, 18783), (176, 18810), (181, 18840), (184, 18852),

Gene: KellEzio_24 Start: 12884, Stop: 13966, Start Num: 1

Candidate Starts for KellEzio_24:

(Start: 1 @12884 has 94 MA's), (31, 13043), (32, 13046), (34, 13055), (35, 13058), (54, 13205), (67, 13271), (74, 13331), (78, 13379), (79, 13382), (105, 13550), (125, 13637), (133, 13679), (135, 13685), (142, 13715), (175, 13907), (178, 13922),

Gene: KidneyBean_29 Start: 18843, Stop: 19913, Start Num: 4

Candidate Starts for KidneyBean_29:

(Start: 4 @18843 has 70 MA's), (8, 18879), (9, 18891), (10, 18897), (33, 19020), (39, 19077), (60, 19185), (84, 19338), (99, 19428), (110, 19476), (120, 19527), (136, 19608), (144, 19647), (150, 19695), (157, 19725), (172, 19836), (176, 19863), (183, 19899), (184, 19905),

Gene: Kimchi1738_17 Start: 12192, Stop: 13256, Start Num: 3

Candidate Starts for Kimchi1738_17:

(Start: 3 @12192 has 20 MA's), (30, 12360), (36, 12384), (43, 12447), (52, 12495), (100, 12789), (101, 12792), (124, 12888), (141, 12984), (149, 13041), (157, 13074), (176, 13206), (177, 13212), (178,

13215), (184, 13248),

Gene: Kitkat_25 Start: 13002, Stop: 14084, Start Num: 1

Candidate Starts for Kitkat_25:

(Start: 1 @13002 has 94 MA's), (31, 13161), (32, 13164), (34, 13173), (35, 13176), (54, 13323), (67, 13389), (74, 13449), (78, 13497), (79, 13500), (105, 13668), (125, 13755), (133, 13797), (135, 13803), (142, 13833), (175, 14025), (178, 14040),

Gene: Kurt_29 Start: 19110, Stop: 20180, Start Num: 4

Candidate Starts for Kurt_29:

(Start: 4 @19110 has 70 MA's), (8, 19146), (9, 19158), (10, 19164), (33, 19287), (39, 19344), (60, 19452), (84, 19605), (99, 19695), (110, 19743), (120, 19794), (136, 19875), (144, 19914), (150, 19962), (157, 19992), (172, 20103), (176, 20130), (183, 20166), (184, 20172),

Gene: Kuwabara_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for Kuwabara_7:

(Start: 1 @5219 has 94 MA's), (Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (161, 6098), (173, 6185), (177, 6212), (181, 6236),

Gene: Lasker_8 Start: 5895, Stop: 6935, Start Num: 1

Candidate Starts for Lasker_8:

(Start: 1 @5895 has 94 MA's), (41, 6123), (46, 6147), (57, 6219), (67, 6276), (80, 6381), (84, 6396), (93, 6447), (94, 6453), (96, 6459), (106, 6519), (110, 6537), (125, 6603), (143, 6681), (162, 6789), (169, 6828), (174, 6870), (176, 6885),

Gene: Lawnathon_8 Start: 5971, Stop: 7011, Start Num: 1

Candidate Starts for Lawnathon_8:

(Start: 1 @5971 has 94 MA's), (41, 6199), (46, 6223), (57, 6295), (67, 6352), (80, 6457), (106, 6595), (110, 6613), (121, 6655), (125, 6679), (160, 6850), (162, 6865), (169, 6904), (174, 6946), (176, 6961),

Gene: LeBruni_8 Start: 5942, Stop: 6982, Start Num: 1

Candidate Starts for LeBruni_8:

(Start: 1 @5942 has 94 MA's), (41, 6170), (46, 6194), (67, 6323), (78, 6410), (80, 6428), (106, 6566), (110, 6584), (121, 6626), (160, 6821), (162, 6836), (169, 6875), (174, 6917), (176, 6932),

Gene: LilSpotty_7 Start: 4918, Stop: 5958, Start Num: 1

Candidate Starts for LilSpotty_7:

(Start: 1 @4918 has 94 MA's), (Start: 4 @4924 has 70 MA's), (21, 5050), (22, 5053), (42, 5167), (63, 5278), (64, 5281), (68, 5308), (77, 5374), (100, 5521), (101, 5524), (102, 5536), (105, 5545), (108, 5557), (115, 5578), (117, 5587), (121, 5608), (130, 5662), (132, 5665), (145, 5713), (147, 5722), (158, 5776), (168, 5845), (173, 5884), (176, 5905), (181, 5935), (184, 5947),

Gene: Lilas_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for Lilas_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Lilbit_39 Start: 16248, Stop: 17318, Start Num: 1

Candidate Starts for Lilbit_39:

(Start: 1 @16248 has 94 MA's), (Start: 4 @16257 has 70 MA's), (5, 16263), (40, 16494), (47, 16524), (55, 16575), (56, 16578), (64, 16617), (99, 16860), (121, 16950), (124, 16965), (132, 17007), (143,

17049), (146, 17073), (149, 17097), (152, 17106), (167, 17193), (177, 17262), (181, 17286),

Gene: LittleLaf_40 Start: 15977, Stop: 17047, Start Num: 1

Candidate Starts for LittleLaf_40:

(Start: 1 @15977 has 94 MA's), (Start: 4 @15986 has 70 MA's), (5, 15992), (40, 16223), (47, 16253), (55, 16304), (56, 16307), (64, 16346), (99, 16589), (121, 16679), (124, 16694), (132, 16736), (143, 16778), (146, 16802), (149, 16826), (152, 16835), (167, 16922), (177, 16991), (181, 17015),

Gene: Lollipop1437_34 Start: 19700, Stop: 20761, Start Num: 4

Candidate Starts for Lollipop1437_34:

(Start: 4 @19700 has 70 MA's), (33, 19877), (39, 19934), (60, 20042), (77, 20150), (112, 20348), (172, 20684), (176, 20711), (184, 20753),

Gene: LonelyBoi_7 Start: 5553, Stop: 6593, Start Num: 4

Candidate Starts for LonelyBoi_7:

(Start: 4 @5553 has 70 MA's), (9, 5601), (12, 5613), (18, 5649), (48, 5823), (52, 5847), (86, 6057), (95, 6108), (101, 6147), (106, 6171), (130, 6285), (132, 6288), (141, 6321), (145, 6348), (161, 6435), (166, 6477), (172, 6516),

Gene: Lozinak_35 Start: 14327, Stop: 15355, Start Num: 1

Candidate Starts for Lozinak_35:

(Start: 1 @14327 has 94 MA's), (7, 14351), (42, 14561), (44, 14570), (68, 14714), (73, 14747), (74, 14753), (103, 14939), (121, 15011), (124, 15026), (135, 15083), (143, 15101), (159, 15185), (169, 15248), (181, 15335),

Gene: LunaStella_7 Start: 5476, Stop: 6522, Start Num: 3

Candidate Starts for LunaStella_7:

(Start: 1 @5470 has 94 MA's), (Start: 3 @5476 has 20 MA's), (21, 5605), (22, 5608), (40, 5713), (45, 5737), (57, 5800), (63, 5833), (66, 5848), (73, 5896), (75, 5917), (77, 5929), (80, 5959), (93, 6022), (100, 6070), (114, 6124), (121, 6157), (122, 6163), (123, 6169), (124, 6172), (125, 6181), (145, 6262), (164, 6370), (170, 6400), (181, 6484), (182, 6487),

Gene: MUWow_7 Start: 5974, Stop: 7014, Start Num: 1

Candidate Starts for MUWow_7:

(Start: 1 @5974 has 94 MA's), (41, 6202), (46, 6226), (57, 6298), (67, 6355), (80, 6460), (84, 6475), (93, 6526), (94, 6532), (96, 6538), (106, 6598), (110, 6616), (125, 6682), (143, 6760), (162, 6868), (169, 6907), (174, 6949), (176, 6964),

Gene: MacGully_37 Start: 19988, Stop: 21046, Start Num: 4

Candidate Starts for MacGully_37:

(Start: 4 @19988 has 70 MA's), (7, 20009), (19, 20105), (39, 20222), (49, 20264), (52, 20285), (60, 20330), (77, 20438), (93, 20531), (99, 20573), (111, 20630), (124, 20681), (136, 20744), (172, 20969), (176, 20996), (184, 21038),

Gene: Mapleville_7 Start: 6041, Stop: 7081, Start Num: 1

Candidate Starts for Mapleville_7:

(Start: 1 @6041 has 94 MA's), (41, 6269), (46, 6293), (57, 6365), (67, 6422), (80, 6527), (106, 6665), (110, 6683), (121, 6725), (125, 6749), (160, 6920), (162, 6935), (169, 6974), (174, 7016), (176, 7031),

Gene: Marietta_31 Start: 16268, Stop: 17335, Start Num: 4

Candidate Starts for Marietta_31:

(Start: 4 @16268 has 70 MA's), (8, 16304), (10, 16322), (33, 16445), (39, 16502), (118, 16937), (120, 16952), (139, 17054), (150, 17120), (172, 17258), (176, 17285),

Gene: Marteena_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for Marteena_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Marvin_38 Start: 16247, Stop: 17317, Start Num: 1

Candidate Starts for Marvin_38:

(Start: 1 @16247 has 94 MA's), (Start: 4 @16256 has 70 MA's), (5, 16262), (40, 16493), (47, 16523), (55, 16574), (56, 16577), (64, 16616), (99, 16859), (121, 16949), (124, 16964), (132, 17006), (143, 17048), (146, 17072), (149, 17096), (152, 17105), (167, 17192), (177, 17261), (181, 17285),

Gene: Maselop_33 Start: 20040, Stop: 21092, Start Num: 4

Candidate Starts for Maselop_33:

(Start: 4 @20040 has 70 MA's), (19, 20157), (39, 20274), (52, 20337), (60, 20382), (77, 20490), (82, 20526), (99, 20625), (111, 20682), (124, 20733), (140, 20820), (172, 21015), (176, 21042), (177, 21048), (184, 21084),

Gene: MaterMagnus_8 Start: 5888, Stop: 6928, Start Num: 1

Candidate Starts for MaterMagnus_8:

(Start: 1 @5888 has 94 MA's), (41, 6116), (46, 6140), (67, 6269), (80, 6374), (84, 6389), (99, 6482), (102, 6500), (106, 6512), (110, 6530), (121, 6572), (125, 6596), (162, 6782), (169, 6821), (174, 6863), (176, 6878),

Gene: MerCougar_30 Start: 18996, Stop: 20063, Start Num: 4

Candidate Starts for MerCougar_30:

(Start: 4 @18996 has 70 MA's), (8, 19032), (10, 19050), (33, 19173), (60, 19338), (92, 19536), (102, 19599), (110, 19629), (118, 19665), (120, 19680), (136, 19761), (150, 19848), (157, 19878), (172, 19986), (176, 20013), (181, 20043), (183, 20049), (184, 20055),

Gene: MidnightRain_8 Start: 5887, Stop: 6927, Start Num: 1

Candidate Starts for MidnightRain_8:

(Start: 1 @5887 has 94 MA's), (41, 6115), (57, 6211), (67, 6268), (78, 6355), (80, 6373), (84, 6388), (99, 6481), (106, 6511), (110, 6529), (162, 6781), (169, 6820), (174, 6862), (176, 6877),

Gene: Miskis_33 Start: 14102, Stop: 15130, Start Num: 1

Candidate Starts for Miskis_33:

(Start: 1 @14102 has 94 MA's), (7, 14126), (42, 14336), (44, 14345), (68, 14489), (73, 14522), (74, 14528), (103, 14714), (121, 14786), (124, 14801), (135, 14858), (143, 14876), (159, 14960), (169, 15023), (181, 15110),

Gene: Mollymur_18 Start: 12528, Stop: 13580, Start Num: 1

Candidate Starts for Mollymur_18:

(Start: 1 @12528 has 94 MA's), (9, 12582), (28, 12675), (44, 12774), (53, 12825), (73, 12951), (76, 12984), (81, 13020), (83, 13029), (87, 13044), (93, 13083), (99, 13125), (123, 13230), (124, 13233), (129, 13257), (136, 13293), (137, 13299), (148, 13356), (154, 13380), (162, 13428), (164, 13440), (169, 13467),

Gene: MortyNRick_7 Start: 5225, Stop: 6259, Start Num: 3

Candidate Starts for MortyNRick_7:

(Start: 3 @5225 has 20 MA's), (83, 5720), (93, 5774), (97, 5804), (99, 5819), (100, 5822), (105, 5846), (106, 5849), (121, 5909), (123, 5921), (132, 5966), (145, 6014), (173, 6185), (177, 6212), (181, 6236),

Gene: MosMoris_38 Start: 15427, Stop: 16497, Start Num: 1

Candidate Starts for MosMoris_38:

(Start: 1 @15427 has 94 MA's), (Start: 4 @15436 has 70 MA's), (5, 15442), (40, 15673), (47, 15703), (55, 15754), (56, 15757), (64, 15796), (99, 16039), (121, 16129), (124, 16144), (132, 16186), (143, 16228), (146, 16252), (149, 16276), (152, 16285), (167, 16372), (177, 16441), (181, 16465),

Gene: MurphyJoseph_8 Start: 5898, Stop: 6938, Start Num: 1

Candidate Starts for MurphyJoseph_8:

(Start: 1 @5898 has 94 MA's), (41, 6126), (46, 6150), (67, 6279), (80, 6384), (100, 6495), (106, 6522), (110, 6540), (132, 6642), (160, 6777), (162, 6792), (169, 6831), (174, 6873), (176, 6888),

Gene: NadineRae_29 Start: 15514, Stop: 16581, Start Num: 4

Candidate Starts for NadineRae_29:

(Start: 4 @15514 has 70 MA's), (8, 15550), (10, 15568), (33, 15691), (39, 15748), (118, 16183), (120, 16198), (139, 16300), (143, 16315), (150, 16366), (172, 16504), (176, 16531),

Gene: NatB6_29 Start: 18119, Stop: 19189, Start Num: 4

Candidate Starts for NatB6_29:

(Start: 4 @18119 has 70 MA's), (8, 18155), (9, 18167), (10, 18173), (33, 18296), (39, 18353), (60, 18461), (84, 18614), (99, 18704), (110, 18752), (120, 18803), (136, 18884), (144, 18923), (150, 18971), (157, 19001), (172, 19112), (176, 19139), (183, 19175), (184, 19181),

Gene: NewKitty_9 Start: 6117, Stop: 7157, Start Num: 1

Candidate Starts for NewKitty_9:

(Start: 1 @6117 has 94 MA's), (41, 6345), (46, 6369), (57, 6441), (67, 6498), (80, 6603), (84, 6618), (93, 6669), (94, 6675), (96, 6681), (106, 6741), (110, 6759), (125, 6825), (143, 6903), (162, 7011), (169, 7050), (174, 7092), (176, 7107),

Gene: Norvs_36 Start: 14329, Stop: 15357, Start Num: 1

Candidate Starts for Norvs_36:

(Start: 1 @14329 has 94 MA's), (7, 14353), (42, 14563), (44, 14572), (68, 14716), (73, 14749), (74, 14755), (103, 14941), (121, 15013), (124, 15028), (135, 15085), (143, 15103), (159, 15187), (169, 15250), (181, 15337),

Gene: NosilaM_32 Start: 18687, Stop: 19757, Start Num: 4

Candidate Starts for NosilaM_32:

(Start: 4 @18687 has 70 MA's), (8, 18723), (10, 18741), (33, 18864), (60, 19029), (90, 19215), (92, 19227), (102, 19290), (109, 19317), (116, 19347), (119, 19368), (120, 19371), (136, 19452), (139, 19473), (150, 19539), (157, 19569), (172, 19680), (176, 19707), (181, 19737), (184, 19749),

Gene: NovumRegina_29 Start: 18450, Stop: 19520, Start Num: 4

Candidate Starts for NovumRegina_29:

(Start: 4 @18450 has 70 MA's), (8, 18486), (9, 18498), (10, 18504), (33, 18627), (39, 18684), (60, 18792), (99, 19035), (110, 19083), (120, 19134), (136, 19215), (144, 19254), (150, 19302), (157, 19332), (172, 19443), (176, 19470), (183, 19506), (184, 19512),

Gene: Nyilah_7 Start: 5971, Stop: 7011, Start Num: 1

Candidate Starts for Nyilah_7:

(Start: 1 @5971 has 94 MA's), (41, 6199), (46, 6223), (67, 6352), (80, 6457), (94, 6529), (99, 6565), (106, 6595), (110, 6613), (121, 6655), (125, 6679), (126, 6682), (130, 6709), (162, 6865), (169, 6904), (174, 6946), (176, 6961),

Gene: OneUp_29 Start: 12114, Stop: 13157, Start Num: 1

Candidate Starts for OneUp_29:

(Start: 1 @12114 has 94 MA's), (42, 12348), (44, 12357), (68, 12501), (73, 12534), (99, 12705), (103, 12726), (121, 12798), (130, 12852), (143, 12888), (163, 13002), (167, 13029), (170, 13038),

Gene: Outis_30 Start: 18690, Stop: 19757, Start Num: 4

Candidate Starts for Outis_30:

(Start: 4 @18690 has 70 MA's), (8, 18726), (10, 18744), (33, 18867), (60, 19032), (92, 19230), (102, 19293), (109, 19320), (110, 19323), (118, 19359), (120, 19374), (136, 19455), (150, 19542), (157, 19572), (172, 19680), (176, 19707), (181, 19737), (183, 19743), (184, 19749),

Gene: P1201_32 Start: 19535, Stop: 20620, Start Num: 2

Candidate Starts for P1201_32:

(Start: 2 @19535 has 1 MA's), (12, 19601), (70, 19943), (101, 20135), (110, 20177), (143, 20348), (151, 20405), (176, 20570), (184, 20612),

Gene: Patio_32 Start: 18936, Stop: 19997, Start Num: 4

Candidate Starts for Patio_32:

(Start: 4 @18936 has 70 MA's), (33, 19113), (39, 19170), (60, 19278), (77, 19386), (112, 19584), (172, 19920), (176, 19947), (184, 19989),

Gene: Pemberton_32 Start: 16251, Stop: 17318, Start Num: 4

Candidate Starts for Pemberton_32:

(Start: 4 @16251 has 70 MA's), (8, 16287), (10, 16305), (33, 16428), (39, 16485), (118, 16920), (120, 16935), (136, 17016), (139, 17037), (150, 17103), (172, 17241), (176, 17268),

Gene: Persistence_7 Start: 5995, Stop: 7035, Start Num: 1

Candidate Starts for Persistence_7:

(Start: 1 @5995 has 94 MA's), (24, 6127), (41, 6223), (46, 6247), (67, 6376), (80, 6481), (84, 6496), (106, 6619), (110, 6637), (121, 6679), (156, 6850), (160, 6874), (162, 6889), (169, 6928), (174, 6970), (176, 6985),

Gene: PeteyPab_16 Start: 12559, Stop: 13623, Start Num: 3

Candidate Starts for PeteyPab_16:

(Start: 3 @12559 has 20 MA's), (30, 12727), (36, 12751), (43, 12814), (52, 12862), (100, 13156), (101, 13159), (109, 13198), (124, 13255), (141, 13351), (149, 13408), (157, 13441), (176, 13573), (178, 13582), (184, 13615),

Gene: PhinkBoden_35 Start: 14710, Stop: 15738, Start Num: 1

Candidate Starts for PhinkBoden_35:

(Start: 1 @14710 has 94 MA's), (7, 14734), (42, 14944), (44, 14953), (68, 15097), (73, 15130), (74, 15136), (103, 15322), (121, 15394), (124, 15409), (135, 15466), (143, 15484), (159, 15568), (169, 15631), (181, 15718),

Gene: Phomeo_28 Start: 18745, Stop: 19815, Start Num: 4

Candidate Starts for Phomeo_28:

(Start: 4 @18745 has 70 MA's), (8, 18781), (9, 18793), (10, 18799), (33, 18922), (39, 18979), (60, 19087), (84, 19240), (99, 19330), (110, 19378), (120, 19429), (136, 19510), (144, 19549), (150, 19597), (157, 19627), (172, 19738), (176, 19765), (183, 19801), (184, 19807),

Gene: Phrank15_7 Start: 6041, Stop: 7081, Start Num: 1

Candidate Starts for Phrank15_7:

(Start: 1 @6041 has 94 MA's), (24, 6173), (41, 6269), (44, 6284), (46, 6293), (65, 6410), (67, 6422), (80, 6527), (84, 6542), (96, 6605), (106, 6665), (110, 6683), (121, 6725), (124, 6740), (160, 6920), (174, 7016), (176, 7031),

Gene: Pleakley_38 Start: 18777, Stop: 19838, Start Num: 4

Candidate Starts for Pleakley_38:

(Start: 4 @18777 has 70 MA's), (8, 18813), (9, 18825), (33, 18954), (110, 19410), (131, 19515), (167, 19722), (172, 19761), (176, 19788), (184, 19830),

Gene: Poise_40 Start: 15565, Stop: 16635, Start Num: 1

Candidate Starts for Poise_40:

(Start: 1 @15565 has 94 MA's), (Start: 4 @15574 has 70 MA's), (5, 15580), (40, 15811), (47, 15841), (55, 15892), (56, 15895), (64, 15934), (99, 16177), (121, 16267), (124, 16282), (132, 16324), (143, 16366), (146, 16390), (149, 16414), (152, 16423), (167, 16510), (177, 16579), (181, 16603),

Gene: Pollux_7 Start: 5706, Stop: 6746, Start Num: 4

Candidate Starts for Pollux_7:

(Start: 4 @5706 has 70 MA's), (9, 5754), (12, 5766), (18, 5802), (48, 5976), (52, 6000), (86, 6210), (95, 6261), (101, 6300), (106, 6324), (124, 6399), (130, 6438), (132, 6441), (141, 6474), (145, 6501), (161, 6588), (166, 6630), (172, 6669), (178, 6705),

Gene: Polyyuki_33 Start: 20032, Stop: 21084, Start Num: 4

Candidate Starts for Polyyuki_33:

(Start: 4 @20032 has 70 MA's), (19, 20149), (39, 20266), (52, 20329), (60, 20374), (77, 20482), (82, 20518), (99, 20617), (111, 20674), (124, 20725), (140, 20812), (172, 21007), (176, 21034), (177, 21040), (184, 21076),

Gene: Posh_7 Start: 5700, Stop: 6740, Start Num: 4

Candidate Starts for Posh_7:

(Start: 4 @5700 has 70 MA's), (9, 5748), (12, 5760), (18, 5796), (48, 5970), (52, 5994), (69, 6099), (86, 6204), (95, 6255), (101, 6294), (106, 6318), (130, 6432), (132, 6435), (141, 6468), (145, 6495), (161, 6582), (166, 6624), (172, 6663),

Gene: PotatoChip_17 Start: 12561, Stop: 13625, Start Num: 3

Candidate Starts for PotatoChip_17:

(Start: 3 @12561 has 20 MA's), (30, 12729), (36, 12753), (43, 12816), (52, 12864), (100, 13158), (101, 13161), (109, 13200), (124, 13257), (141, 13353), (149, 13410), (157, 13443), (176, 13575), (178, 13584), (184, 13617),

Gene: Pringar_40 Start: 15877, Stop: 16947, Start Num: 1

Candidate Starts for Pringar_40:

(Start: 1 @15877 has 94 MA's), (Start: 4 @15886 has 70 MA's), (5, 15892), (40, 16123), (47, 16153), (55, 16204), (56, 16207), (64, 16246), (99, 16489), (121, 16579), (124, 16594), (132, 16636), (143, 16678), (146, 16702), (149, 16726), (152, 16735), (167, 16822), (177, 16891), (181, 16915),

Gene: Pytheas_7 Start: 5553, Stop: 6593, Start Num: 4

Candidate Starts for Pytheas_7:

(Start: 4 @5553 has 70 MA's), (9, 5601), (12, 5613), (18, 5649), (48, 5823), (52, 5847), (86, 6057), (95, 6108), (101, 6147), (106, 6171), (124, 6246), (130, 6285), (132, 6288), (141, 6321), (145, 6348), (161, 6435), (166, 6477), (172, 6516),

Gene: RadFad_8 Start: 5887, Stop: 6927, Start Num: 1

Candidate Starts for RadFad_8:

(Start: 1 @5887 has 94 MA's), (41, 6115), (57, 6211), (67, 6268), (78, 6355), (80, 6373), (84, 6388), (99, 6481), (106, 6511), (110, 6529), (162, 6781), (169, 6820), (174, 6862), (176, 6877),

Gene: Raela_40 Start: 16120, Stop: 17190, Start Num: 1

Candidate Starts for Raela_40:

(Start: 1 @16120 has 94 MA's), (Start: 4 @16129 has 70 MA's), (5, 16135), (40, 16366), (47, 16396), (55, 16447), (56, 16450), (64, 16489), (99, 16732), (121, 16822), (124, 16837), (132, 16879), (143, 16921), (146, 16945), (149, 16969), (152, 16978), (167, 17065), (177, 17134), (181, 17158),

Gene: Raphaella_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for Raphaella_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: RedRaider_36 Start: 20940, Stop: 22001, Start Num: 4

Candidate Starts for RedRaider_36:

(Start: 4 @20940 has 70 MA's), (33, 21117), (39, 21174), (60, 21282), (77, 21390), (112, 21588), (172, 21924), (176, 21951), (184, 21993),

Gene: RedRaider77_40 Start: 16021, Stop: 17091, Start Num: 1

Candidate Starts for RedRaider77_40:

(Start: 1 @16021 has 94 MA's), (Start: 4 @16030 has 70 MA's), (5, 16036), (40, 16267), (47, 16297), (55, 16348), (56, 16351), (64, 16390), (99, 16633), (121, 16723), (124, 16738), (132, 16780), (143, 16822), (146, 16846), (149, 16870), (152, 16879), (167, 16966), (177, 17035), (181, 17059),

Gene: Renaud18_7 Start: 5356, Stop: 6402, Start Num: 3

Candidate Starts for Renaud18_7:

(Start: 1 @5350 has 94 MA's), (Start: 3 @5356 has 20 MA's), (21, 5485), (22, 5488), (40, 5593), (57, 5680), (63, 5713), (66, 5728), (73, 5776), (75, 5797), (77, 5809), (80, 5839), (93, 5902), (100, 5950), (114, 6004), (121, 6037), (122, 6043), (123, 6049), (124, 6052), (125, 6061), (145, 6142), (170, 6280), (173, 6313), (181, 6364), (182, 6367),

Gene: Richie_8 Start: 5902, Stop: 6942, Start Num: 1

Candidate Starts for Richie_8:

(Start: 1 @5902 has 94 MA's), (41, 6130), (46, 6154), (57, 6226), (67, 6283), (80, 6388), (84, 6403), (93, 6454), (94, 6460), (96, 6466), (106, 6526), (110, 6544), (125, 6610), (143, 6688), (162, 6796), (169, 6835), (174, 6877), (176, 6892),

Gene: SPB78_7 Start: 5580, Stop: 6626, Start Num: 2

Candidate Starts for SPB78_7:

(Start: 2 @5580 has 1 MA's), (15, 5661), (39, 5817), (40, 5820), (75, 6015), (83, 6069), (91, 6117), (93, 6123), (101, 6171), (102, 6183), (106, 6195), (124, 6276), (125, 6285), (167, 6510),

Gene: Sakai_8 Start: 5896, Stop: 6936, Start Num: 1

Candidate Starts for Sakai_8:

(Start: 1 @5896 has 94 MA's), (41, 6124), (46, 6148), (67, 6277), (80, 6382), (84, 6397), (99, 6490), (102, 6508), (106, 6520), (110, 6538), (121, 6580), (125, 6604), (162, 6790), (169, 6829), (174, 6871), (176, 6886),

Gene: Samy_10 Start: 6935, Stop: 7969, Start Num: 1

Candidate Starts for Samy_10:

(Start: 1 @6935 has 94 MA's), (39, 7166), (47, 7199), (52, 7229), (59, 7271), (62, 7286), (77, 7388), (101, 7541), (102, 7553), (136, 7700), (156, 7796), (157, 7802), (172, 7889), (184, 7958),

Gene: Sashimi_9 Start: 6060, Stop: 7100, Start Num: 1

Candidate Starts for Sashimi_9:

(Start: 1 @6060 has 94 MA's), (24, 6192), (41, 6288), (46, 6312), (57, 6384), (67, 6441), (80, 6546), (106, 6684), (110, 6702), (160, 6939), (162, 6954), (169, 6993), (174, 7035), (176, 7050),

Gene: Satrap_8 Start: 5898, Stop: 6938, Start Num: 1

Candidate Starts for Satrap_8:

(Start: 1 @5898 has 94 MA's), (41, 6126), (46, 6150), (57, 6222), (65, 6267), (67, 6279), (80, 6384), (84, 6399), (93, 6450), (94, 6456), (96, 6462), (100, 6495), (106, 6522), (110, 6540), (121, 6582), (160, 6777), (162, 6792), (169, 6831), (174, 6873), (176, 6888),

Gene: Scuba_38 Start: 18870, Stop: 19931, Start Num: 4

Candidate Starts for Scuba_38:

(Start: 4 @18870 has 70 MA's), (8, 18906), (9, 18918), (33, 19047), (110, 19503), (131, 19608), (143, 19665), (167, 19815), (172, 19854), (176, 19881), (184, 19923),

Gene: Seahorse_9 Start: 6170, Stop: 7207, Start Num: 2

Candidate Starts for Seahorse_9:

(Start: 2 @6170 has 1 MA's), (41, 6395), (46, 6419), (67, 6548), (75, 6611), (80, 6653), (84, 6668), (93, 6719), (99, 6761), (102, 6779), (125, 6875), (162, 7061), (169, 7100), (174, 7142), (176, 7157),

Gene: Shukran_8 Start: 5898, Stop: 6938, Start Num: 1

Candidate Starts for Shukran_8:

(Start: 1 @5898 has 94 MA's), (41, 6126), (46, 6150), (57, 6222), (65, 6267), (67, 6279), (80, 6384), (84, 6399), (93, 6450), (94, 6456), (96, 6462), (100, 6495), (106, 6522), (110, 6540), (121, 6582), (160, 6777), (162, 6792), (169, 6831), (174, 6873), (176, 6888),

Gene: Skysand_31 Start: 19156, Stop: 20217, Start Num: 4

Candidate Starts for Skysand_31:

(Start: 4 @19156 has 70 MA's), (33, 19333), (39, 19390), (60, 19498), (77, 19606), (112, 19804), (136, 19915), (172, 20140), (176, 20167), (184, 20209),

Gene: Smoothie_36 Start: 14327, Stop: 15355, Start Num: 1

Candidate Starts for Smoothie_36:

(Start: 1 @14327 has 94 MA's), (7, 14351), (42, 14561), (44, 14570), (68, 14714), (73, 14747), (74, 14753), (103, 14939), (121, 15011), (124, 15026), (135, 15083), (143, 15101), (159, 15185), (169, 15248), (181, 15335),

Gene: SonDevVon_7 Start: 5889, Stop: 6929, Start Num: 1

Candidate Starts for SonDevVon_7:

(Start: 1 @5889 has 94 MA's), (41, 6117), (46, 6141), (67, 6270), (80, 6375), (84, 6390), (99, 6483), (102, 6501), (106, 6513), (110, 6531), (121, 6573), (125, 6597), (162, 6783), (169, 6822), (174, 6864), (176, 6879),

Gene: SpeedDemon_180 Start: 11915, Stop: 12970, Start Num: 1

Candidate Starts for SpeedDemon_180:

(Start: 1 @11915 has 94 MA's), (53, 12212), (65, 12287), (73, 12338), (78, 12386), (99, 12512), (121, 12605), (123, 12617), (124, 12620), (129, 12644), (138, 12692), (142, 12707), (143, 12713), (163, 12827), (164, 12833), (169, 12860),

Gene: SpicyFrank_8 Start: 5950, Stop: 6990, Start Num: 1

Candidate Starts for SpicyFrank_8:

(Start: 1 @5950 has 94 MA's), (41, 6178), (46, 6202), (57, 6274), (67, 6331), (80, 6436), (84, 6451), (93, 6502), (94, 6508), (96, 6514), (106, 6574), (162, 6844), (169, 6883), (174, 6925), (176, 6940),

Gene: Sporco_8 Start: 5947, Stop: 6987, Start Num: 1

Candidate Starts for Sporco_8:

(Start: 1 @5947 has 94 MA's), (41, 6175), (46, 6199), (57, 6271), (67, 6328), (80, 6433), (84, 6448), (93, 6499), (94, 6505), (96, 6511), (106, 6571), (110, 6589), (125, 6655), (143, 6733), (162, 6841), (169, 6880), (174, 6922), (176, 6937),

Gene: StarStruck_30 Start: 18690, Stop: 19757, Start Num: 4

Candidate Starts for StarStruck_30:

(Start: 4 @18690 has 70 MA's), (8, 18726), (10, 18744), (33, 18867), (60, 19032), (92, 19230), (102, 19293), (109, 19320), (110, 19323), (118, 19359), (120, 19374), (136, 19455), (150, 19542), (157, 19572), (172, 19680), (176, 19707), (181, 19737), (183, 19743), (184, 19749),

Gene: Stickynote_19 Start: 13371, Stop: 14435, Start Num: 3

Candidate Starts for Stickynote_19:

(Start: 3 @13371 has 20 MA's), (30, 13539), (36, 13563), (43, 13626), (52, 13674), (100, 13968), (101, 13971), (124, 14067), (141, 14163), (149, 14220), (157, 14253), (176, 14385), (177, 14391), (178, 14394), (184, 14427),

Gene: Sukkupi_31 Start: 17825, Stop: 18892, Start Num: 4

Candidate Starts for Sukkupi_31:

(Start: 4 @17825 has 70 MA's), (8, 17861), (10, 17879), (14, 17894), (33, 18002), (39, 18059), (118, 18494), (120, 18509), (136, 18590), (139, 18611), (150, 18677), (172, 18815), (176, 18842),

Gene: SuperSulley_30 Start: 18875, Stop: 19945, Start Num: 4

Candidate Starts for SuperSulley_30:

(Start: 4 @18875 has 70 MA's), (8, 18911), (10, 18929), (33, 19052), (60, 19217), (90, 19403), (92, 19415), (102, 19478), (109, 19505), (116, 19535), (119, 19556), (120, 19559), (136, 19640), (139, 19661), (150, 19727), (157, 19757), (172, 19868), (176, 19895), (181, 19925), (184, 19937),

Gene: TChen_7 Start: 5476, Stop: 6522, Start Num: 3

Candidate Starts for TChen_7:

(Start: 1 @5470 has 94 MA's), (Start: 3 @5476 has 20 MA's), (21, 5605), (22, 5608), (40, 5713), (45, 5737), (57, 5800), (63, 5833), (66, 5848), (73, 5896), (75, 5917), (77, 5929), (80, 5959), (93, 6022), (100, 6070), (114, 6124), (121, 6157), (122, 6163), (123, 6169), (124, 6172), (125, 6181), (145, 6262), (164, 6370), (170, 6400), (181, 6484), (182, 6487),

Gene: TPA4_8 Start: 6373, Stop: 7398, Start Num: 3

Candidate Starts for TPA4_8:

(Start: 3 @6373 has 20 MA's), (21, 6502), (22, 6505), (57, 6697), (69, 6775), (98, 6952), (102, 6982), (104, 6988), (107, 6997), (121, 7054), (124, 7069), (145, 7159), (172, 7321), (173, 7327), (179, 7360), (181, 7378), (184, 7390),

Gene: Tesla_39 Start: 15870, Stop: 16940, Start Num: 1

Candidate Starts for Tesla_39:

(Start: 1 @15870 has 94 MA's), (Start: 4 @15879 has 70 MA's), (5, 15885), (40, 16116), (47, 16146), (55, 16197), (56, 16200), (64, 16239), (99, 16482), (121, 16572), (124, 16587), (132, 16629), (143, 16671), (146, 16695), (149, 16719), (152, 16728), (167, 16815), (177, 16884), (181, 16908),

Gene: ThayneTheZag_8 Start: 5924, Stop: 6964, Start Num: 1

Candidate Starts for ThayneTheZag_8:

(Start: 1 @5924 has 94 MA's), (41, 6152), (46, 6176), (57, 6248), (67, 6305), (80, 6410), (84, 6425), (94, 6482), (96, 6488), (100, 6521), (106, 6548), (110, 6566), (121, 6608), (132, 6668), (162, 6818), (167, 6851), (169, 6857), (176, 6914),

Gene: ThetaBob_7 Start: 5356, Stop: 6402, Start Num: 3

Candidate Starts for ThetaBob_7:

(Start: 1 @5350 has 94 MA's), (Start: 3 @5356 has 20 MA's), (21, 5485), (22, 5488), (40, 5593), (57, 5680), (63, 5713), (66, 5728), (73, 5776), (75, 5797), (77, 5809), (80, 5839), (93, 5902), (100, 5950), (114, 6004), (121, 6037), (122, 6043), (123, 6049), (124, 6052), (125, 6061), (145, 6142), (170, 6280), (173, 6313), (178, 6343), (181, 6364), (182, 6367),

Gene: Tiff81_9 Start: 6059, Stop: 7099, Start Num: 1

Candidate Starts for Tiff81_9:

(Start: 1 @6059 has 94 MA's), (41, 6287), (46, 6311), (67, 6440), (80, 6545), (94, 6617), (99, 6653), (106, 6683), (110, 6701), (121, 6743), (125, 6767), (126, 6770), (130, 6797), (162, 6953), (169, 6992), (174, 7034), (176, 7049),

Gene: Toniann_35 Start: 14272, Stop: 15300, Start Num: 1

Candidate Starts for Toniann_35:

(Start: 1 @14272 has 94 MA's), (7, 14296), (42, 14506), (44, 14515), (68, 14659), (73, 14692), (74, 14698), (103, 14884), (121, 14956), (124, 14971), (135, 15028), (143, 15046), (159, 15130), (169, 15193), (181, 15280),

Gene: Toron_7 Start: 5476, Stop: 6522, Start Num: 3

Candidate Starts for Toron_7:

(Start: 1 @5470 has 94 MA's), (Start: 3 @5476 has 20 MA's), (21, 5605), (22, 5608), (26, 5623), (40, 5713), (57, 5800), (63, 5833), (66, 5848), (73, 5896), (75, 5917), (77, 5929), (80, 5959), (93, 6022), (100, 6070), (114, 6124), (117, 6136), (121, 6157), (122, 6163), (123, 6169), (124, 6172), (125, 6181), (145, 6262), (161, 6346), (170, 6400), (173, 6433), (178, 6463), (181, 6484), (182, 6487), (185, 6499),

Gene: Towmatter_16 Start: 10315, Stop: 11364, Start Num: 1

Candidate Starts for Towmatter_16:

(Start: 1 @10315 has 94 MA's), (9, 10369), (28, 10462), (53, 10612), (73, 10738), (78, 10786), (93, 10870), (99, 10912), (101, 10918), (102, 10930), (124, 11020), (129, 11044), (130, 11059), (137, 11086), (140, 11095), (147, 11134), (154, 11167), (162, 11215), (164, 11227), (169, 11254), (184, 11356),

Gene: Tracker_29 Start: 17873, Stop: 18943, Start Num: 4

Candidate Starts for Tracker_29:

(Start: 4 @17873 has 70 MA's), (8, 17909), (9, 17921), (10, 17927), (33, 18050), (39, 18107), (60, 18215), (84, 18368), (99, 18458), (110, 18506), (120, 18557), (136, 18638), (144, 18677), (150, 18725), (157, 18755), (172, 18866), (176, 18893), (183, 18929), (184, 18935),

Gene: Turuncu_33 Start: 19189, Stop: 20250, Start Num: 4

Candidate Starts for Turuncu_33:

(Start: 4 @19189 has 70 MA's), (10, 19243), (33, 19366), (39, 19423), (49, 19465), (77, 19639), (112, 19837), (172, 20173), (176, 20200), (177, 20206), (184, 20242),

Gene: VWB_7 Start: 5635, Stop: 6681, Start Num: 2

Candidate Starts for VWB_7:

(Start: 2 @5635 has 1 MA's), (15, 5716), (39, 5872), (40, 5875), (71, 6043), (73, 6055), (81, 6115), (83, 6124), (86, 6136), (101, 6226), (103, 6241), (106, 6250), (110, 6268), (113, 6280), (120, 6313), (121, 6316), (128, 6352), (132, 6373), (140, 6403), (184, 6670),

Gene: VasuNzinga_40 Start: 15454, Stop: 16524, Start Num: 1

Candidate Starts for VasuNzinga_40:

(Start: 1 @15454 has 94 MA's), (Start: 4 @15463 has 70 MA's), (5, 15469), (40, 15700), (47, 15730), (55, 15781), (56, 15784), (64, 15823), (99, 16066), (121, 16156), (124, 16171), (132, 16213), (143, 16255), (146, 16279), (149, 16303), (152, 16312), (167, 16399), (177, 16468), (181, 16492),

Gene: Vopal_9 Start: 5959, Stop: 6999, Start Num: 1

Candidate Starts for Vopal_9:

(Start: 1 @5959 has 94 MA's), (41, 6187), (46, 6211), (57, 6283), (67, 6340), (80, 6445), (84, 6460), (93, 6511), (94, 6517), (96, 6523), (106, 6583), (110, 6601), (125, 6667), (143, 6745), (162, 6853), (169, 6892), (174, 6934), (176, 6949),

Gene: Wheezy_29 Start: 18076, Stop: 19146, Start Num: 4

Candidate Starts for Wheezy_29:

(Start: 4 @18076 has 70 MA's), (8, 18112), (9, 18124), (10, 18130), (33, 18253), (39, 18310), (60, 18418), (99, 18661), (110, 18709), (120, 18760), (136, 18841), (144, 18880), (150, 18928), (157, 18958), (172, 19069), (176, 19096), (183, 19132), (184, 19138),

Gene: WhoseManz_31 Start: 15879, Stop: 16946, Start Num: 4

Candidate Starts for WhoseManz_31:

(Start: 4 @15879 has 70 MA's), (8, 15915), (10, 15933), (33, 16056), (39, 16113), (118, 16548), (120, 16563), (136, 16644), (139, 16665), (150, 16731), (172, 16869), (176, 16896),

Gene: WilliamBoone_35 Start: 13661, Stop: 14689, Start Num: 1

Candidate Starts for WilliamBoone_35:

(Start: 1 @13661 has 94 MA's), (7, 13685), (42, 13895), (44, 13904), (68, 14048), (73, 14081), (74, 14087), (103, 14273), (121, 14345), (135, 14417), (143, 14435), (159, 14519), (169, 14582), (181, 14669),

Gene: Windest_9 Start: 5959, Stop: 6999, Start Num: 1

Candidate Starts for Windest_9:

(Start: 1 @5959 has 94 MA's), (41, 6187), (46, 6211), (57, 6283), (67, 6340), (78, 6427), (80, 6445), (84, 6460), (93, 6511), (94, 6517), (96, 6523), (106, 6583), (110, 6601), (125, 6667), (143, 6745), (162, 6853), (169, 6892), (174, 6934), (176, 6949),

Gene: Wrigley_7 Start: 5550, Stop: 6590, Start Num: 4

Candidate Starts for Wrigley_7:

(Start: 4 @5550 has 70 MA's), (9, 5598), (12, 5610), (18, 5646), (48, 5820), (52, 5844), (86, 6054), (95, 6105), (101, 6144), (124, 6243), (130, 6282), (132, 6285), (141, 6318), (145, 6345), (161, 6432), (166, 6474), (172, 6513),

Gene: Yndexa_31 Start: 17825, Stop: 18892, Start Num: 4

Candidate Starts for Yndexa_31:

(Start: 4 @17825 has 70 MA's), (8, 17861), (10, 17879), (14, 17894), (33, 18002), (39, 18059), (118, 18494), (120, 18509), (136, 18590), (139, 18611), (150, 18677), (172, 18815), (176, 18842),

Gene: YoungHarleezy_8 Start: 5900, Stop: 6940, Start Num: 1

Candidate Starts for YoungHarleezy_8:

(Start: 1 @5900 has 94 MA's), (41, 6128), (46, 6152), (57, 6224), (67, 6281), (80, 6386), (84, 6401), (93, 6452), (94, 6458), (96, 6464), (106, 6524), (110, 6542), (125, 6608), (143, 6686), (162, 6794), (169, 6833), (174, 6875), (176, 6890),

Gene: Yvonnetastic_33 Start: 16045, Stop: 17094, Start Num: 1

Candidate Starts for Yvonnetastic_33:

(Start: 1 @16045 has 94 MA's), (6, 16066), (7, 16075), (16, 16132), (24, 16183), (29, 16198), (99, 16642), (101, 16648), (115, 16708), (123, 16747), (159, 16909), (186, 17077),

Gene: Zion_17 Start: 12559, Stop: 13623, Start Num: 3

Candidate Starts for Zion_17:

(Start: 3 @12559 has 20 MA's), (30, 12727), (36, 12751), (43, 12814), (52, 12862), (100, 13156), (101, 13159), (109, 13198), (124, 13255), (141, 13351), (149, 13408), (157, 13441), (176, 13573), (178, 13582), (184, 13615),

Gene: Zucker_8 Start: 5626, Stop: 6645, Start Num: 4

Candidate Starts for Zucker_8:

(Start: 4 @5626 has 70 MA's), (20, 5743), (25, 5767), (38, 5842), (42, 5869), (51, 5914), (55, 5941), (75, 6061), (93, 6166), (100, 6214), (102, 6229), (117, 6274), (127, 6325), (143, 6382), (149, 6430), (168, 6532), (177, 6601),

Gene: pZL12_63c Start: 50504, Stop: 49452, Start Num: 1

Candidate Starts for pZL12_63c:

(Start: 1 @50504 has 94 MA's), (27, 50357), (39, 50276), (50, 50225), (120, 49820), (134, 49751), (146, 49691), (176, 49508),