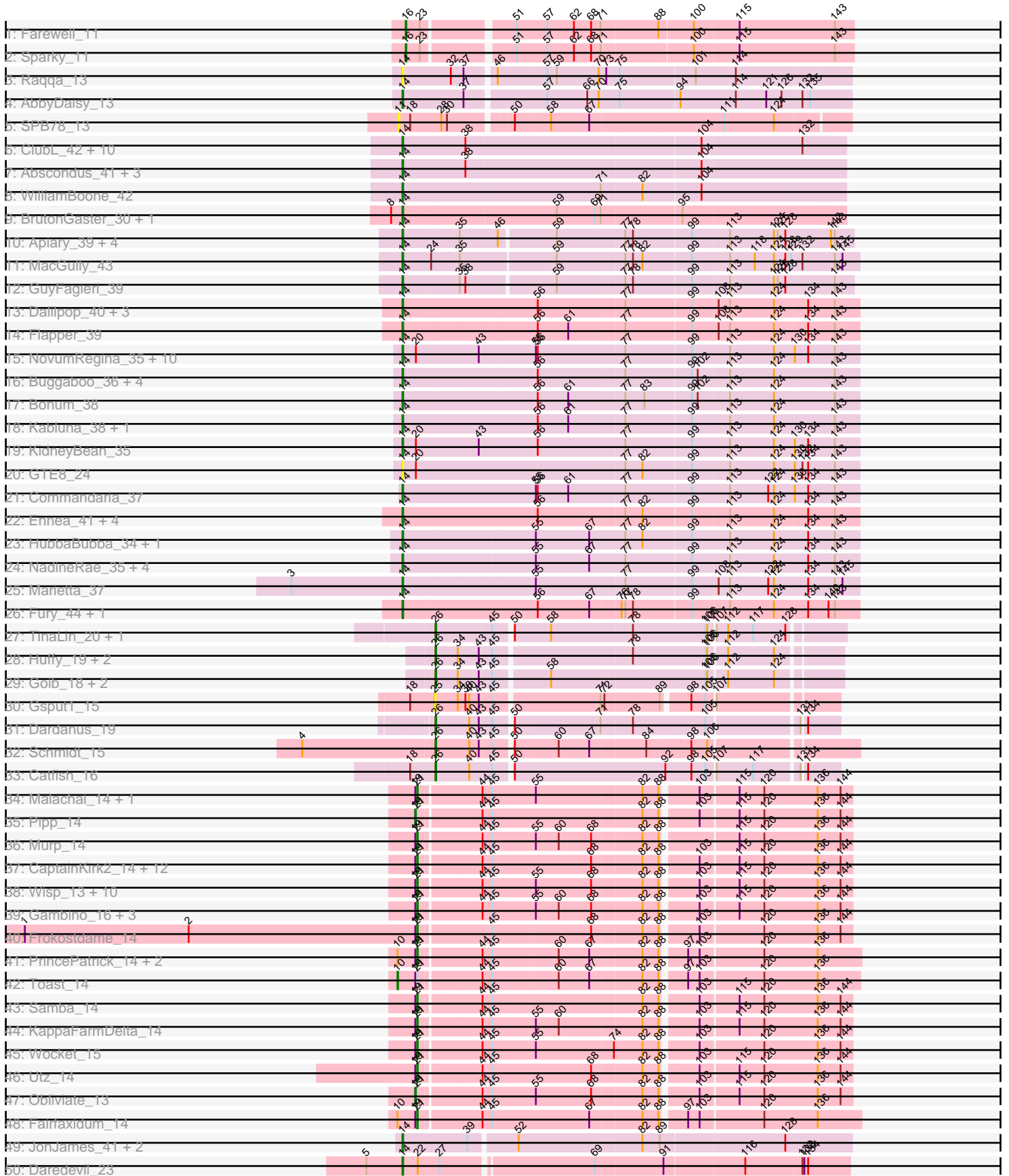
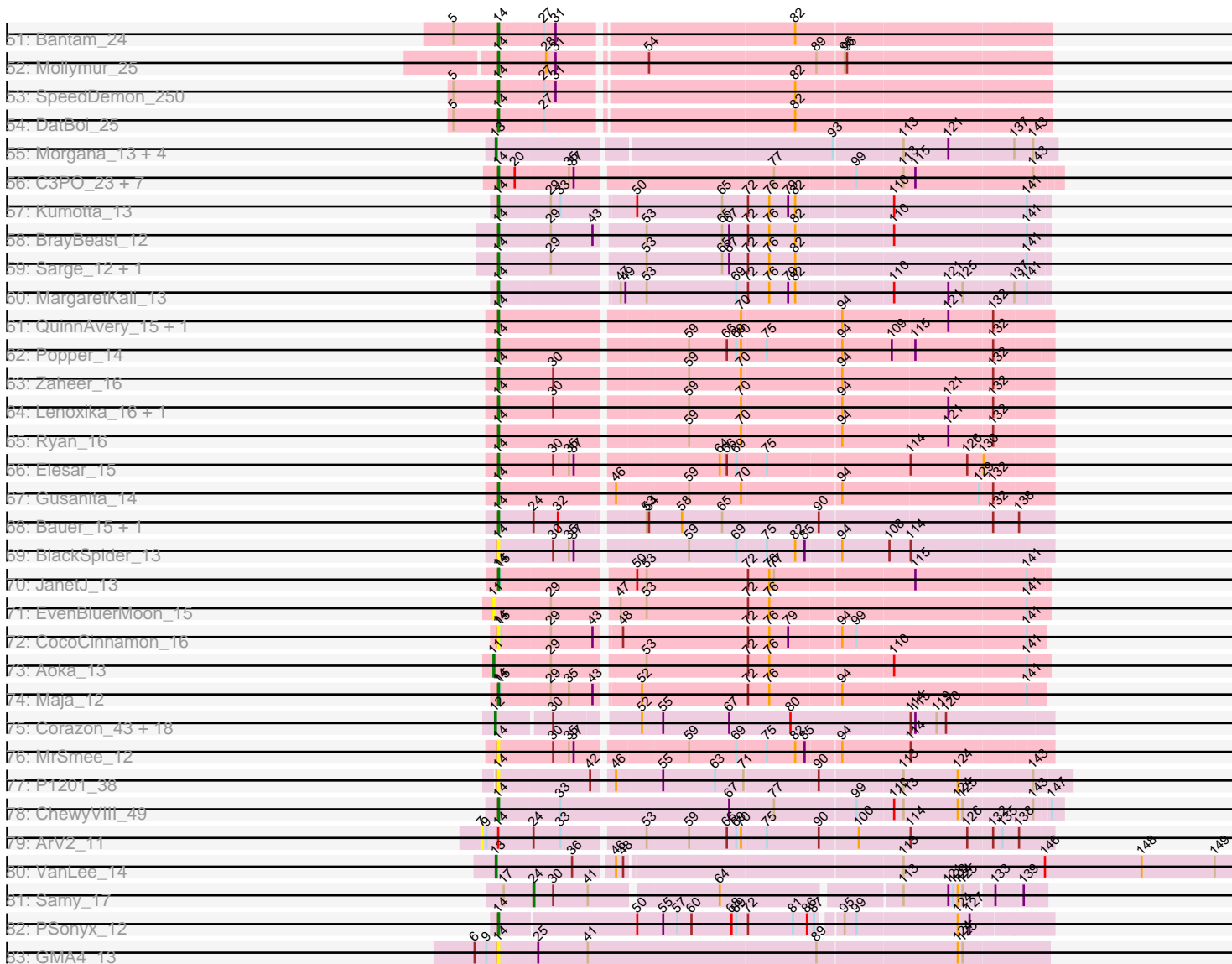


Pham 196299



Pham 196299



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 196299 Report

This analysis was run 12/09/24 on database version 580.

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 196299 has 197 members, 27 are drafts.

Phages represented in each track:

- Track 1 : Farewell_11
- Track 2 : Sparky_11
- Track 3 : Raqqa_13
- Track 4 : AbbyDaisy_13
- Track 5 : SPB78_13
- Track 6 : ClubL_42, Geeche_41, Lozinak_42, Engineer_43, Toniann_42, Bachita_44, Norvs_43, Smoothie_43, Cucurbita_44, Aphelion_42, PhinkBoden_42
- Track 7 : Abscondus_41, Dusty_40, Miskis_44, Culver_42
- Track 8 : WilliamBoone_42
- Track 9 : BrutonGaster_30, OneUp_36
- Track 10 : Apiary_39, Polyuyuki_39, Maselop_39, CoffeeBean_39, Braxoaddie_39
- Track 11 : MacGully_43
- Track 12 : GuyFagieri_39
- Track 13 : Dalilpop_40, Turuncu_39, GRU1_25, GTE5_26
- Track 14 : Flapper_39
- Track 15 : NovumRegina_35, GrootJr_37, Jifall16_34, Foxboro_36, NatB6_35, Wheezy_35, Tracker_35, Arti_35, Kurt_35, Phomeo_34, Emianna_35
- Track 16 : Buggaboo_36, StarStruck_36, MerCougar_36, Outis_36, SuperSulley_36
- Track 17 : Bonum_38
- Track 18 : Kabluna_38, NosilaM_38
- Track 19 : KidneyBean_35
- Track 20 : GTE8_24
- Track 21 : Commandaria_37
- Track 22 : Ennea_41, Patio_38, Lollipop1437_40, Float294_37, Skysand_37
- Track 23 : HubbaBubba_34, WhoseManz_37
- Track 24 : NadineRae_35, Sukkupi_37, BiPauneto_38, Yndexa_37, IDyn_36
- Track 25 : Marietta_37
- Track 26 : Fury_44, Pleakley_44
- Track 27 : TinaLin_20, Banquo_21
- Track 28 : Huffy_19, TZGordon_19, DinoDaryn_19
- Track 29 : Goib_18, Vendetta_17, Splinter_17
- Track 30 : Gspu1_15
- Track 31 : Dardanus_19

- Track 32 : Schmidt_15
- Track 33 : Catfish_16
- Track 34 : Malachai_14, Begonia_14
- Track 35 : Pipp_14
- Track 36 : Murp_14
- Track 37 : CaptainKirk2_14, MintFen_14, Delian_14, Melba_14, Guacamole_14, Archis_15, BlingBling_14, Barco_14, JasperJr_14, Fenry_13, JuJu_14, Zarbodnamra_14, UmaThurman_14
- Track 38 : Wisp_13, Mellie_13, PhrostedPhlake_15, Petra_16, CarolAnn_14, ZiggyZoo_13, Blino_14, Walrus_15, Hitter_14, Jalammah_15, Lysidious_14
- Track 39 : Gambino_16, Azula_16, Blueberry_16, MissRona_16
- Track 40 : Frokostdame_14
- Track 41 : PrincePatrick_14, William_14, PCoral7_14
- Track 42 : Toast_14
- Track 43 : Samba_14
- Track 44 : KappaFarmDelta_14
- Track 45 : Wocket_15
- Track 46 : Utz_14
- Track 47 : Obliviate_13
- Track 48 : Fairfaxidum_14
- Track 49 : JonJames_41, Cardigan_41, Yvonnetastic_39
- Track 50 : Daredevil_23
- Track 51 : Bantam_24
- Track 52 : Mollymur_25
- Track 53 : SpeedDemon_250
- Track 54 : DatBoi_25
- Track 55 : Morgana_13, ModicumRichard_13, Aleemily_13, ObLaDi_13, Cafasso_13
- Track 56 : C3PO_23, Cruella_23, Darwin_26, PotatoChip_23, Kimchi1738_23, Stickynote_25, Zion_23, PeteyPab_22
- Track 57 : Kumotta_13
- Track 58 : BrayBeast_12
- Track 59 : Sarge_12, Shoya_11
- Track 60 : MargaretKali_13
- Track 61 : QuinnAvery_15, Cole_14
- Track 62 : Popper_14
- Track 63 : Zaheer_16
- Track 64 : Lenoxika_16, Nandita_16
- Track 65 : Ryan_16
- Track 66 : Elesar_15
- Track 67 : Gusanita_14
- Track 68 : Bauer_15, Zucker_14
- Track 69 : BlackSpider_13
- Track 70 : JanetJ_13
- Track 71 : EvenBluerMoon_15
- Track 72 : CocoCinnamon_16
- Track 73 : Aoka_13
- Track 74 : Maja_12
- Track 75 : Corazon_43, Blackbeetle_45, Clarkson_46, VasuNzinga_45, FeliMaine_45, JoieB_46, Poise_45, Beelzebub_49, Marvin_43, Lilbit_46, Huphlepuuff_47, Gattaca_44, MosMoris_43, Caprice_42, Raela_45, Tesla_44, Pringar_45, RedRaider77_45, LittleLaf_45
- Track 76 : MrSmee_12

- Track 77 : P1201_38
- Track 78 : ChewyVIII_49
- Track 79 : ArV2_11
- Track 80 : VanLee_14
- Track 81 : Samy_17
- Track 82 : PSonyx_12
- Track 83 : GMA4_13

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

The start number called the most often in the published annotations is 14, it was called in 92 of the 170 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_13, Abscondus_41, Aphelion_42, Apiary_39, Arti_35, Bachita_44, Bantam_24, Bauer_15, BiPauneto_38, BlackSpider_13, Bonum_38, Braxoaddie_39, BrayBeast_12, BrutonGaster_30, Buggaboo_36, C3PO_23, Cardigan_41, ChewyVIII_49, ClubL_42, CocoCinnamon_16, CoffeeBean_39, Cole_14, Commandaria_37, Cruella_23, Cucurbita_44, Culver_42, Dalilpop_40, Daredevil_23, Darwin_26, DatBoi_25, Dusty_40, Elesar_15, Emianna_35, Engineer_43, Ennea_41, Flapper_39, Float294_37, Foxboro_36, Fury_44, GMA4_13, GRU1_25, GTE5_26, GTE8_24, Geeche_41, GrootJr_37, Gusanita_14, GuyFagieri_39, HubbaBubba_34, IDyn_36, JanetJ_13, Jifall16_34, JonJames_41, Kabluna_38, KidneyBean_35, Kimchi1738_23, Kumotta_13, Kurt_35, Lenoxika_16, Lollipop1437_40, Lozinak_42, MacGully_43, Maja_12, MargaretKali_13, Marietta_37, Maselop_39, MerCougar_36, Miskis_44, Mollymur_25, MrSmee_12, NadineRae_35, Nandita_16, NatB6_35, Norvs_43, NosilaM_38, NovumRegina_35, OneUp_36, Outis_36, P1201_38, PSonyx_12, Patio_38, PeteyPab_22, PhinkBoden_42, Phomeo_34, Pleakley_44, Polyuyuki_39, Popper_14, PotatoChip_23, QuinnAvery_15, Raqqa_13, Ryan_16, Sarge_12, Shoya_11, Skysand_37, Smoothie_43, SpeedDemon_250, StarStruck_36, Stickynote_25, Sukkupi_37, SuperSulley_36, Toniann_42, Tracker_35, Turuncu_39, Wheezy_35, WhoseManz_37, WilliamBoone_42, Yndexa_37, Yvonnetastic_39, Zaheer_16, Zion_23, Zucker_14,

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

- ArV2_11,

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

- Aleemily_13, Aoka_13, Archis_15, Azula_16, Banquo_21, Barco_14, Beelzebub_49, Begonia_14, Blackbeetle_45, BlingBling_14, Blino_14, Blueberry_16, Cafasso_13, Caprice_42, CaptainKirk2_14, CarolAnn_14, Catfish_16, Clarkson_46, Corazon_43, Dardanus_19, Delian_14, DinoDaryn_19, EvenBluerMoon_15, Fairfaxidum_14, Farewell_11, FeliMaine_45, Fenry_13, Frokostdame_14, Gambino_16, Gattaca_44, Goib_18, Gspu1_15, Guacamole_14, Hitter_14, Huffy_19, Huphlepuuff_47, Jalammah_15, JasperJr_14, JoieB_46, JuJu_14, KappaFarmDelta_14, Lilbit_46, LittleLaf_45, Lysidious_14, Malachai_14, Marvin_43, Melba_14, Mellie_13, MintFen_14, MissRona_16, ModicumRichard_13, Morgana_13, MosMoris_43, Murp_14, ObLaDi_13, Obliviate_13, PCoral7_14, Petra_16, PhrostedPhlake_15, Pipp_14, Poise_45, PrincePatrick_14, Pringar_45, Raela_45, RedRaider77_45, SPB78_13, Samba_14, Samy_17, Schmidt_15, Sparky_11,

Splinter_17, TZGordon_19, Tesla_44, TinaLin_20, Toast_14, UmaThurman_14, Utz_14, VanLee_14, VasuNzinga_45, Vendetta_17, Walrus_15, William_14, Wisp_13, Wocket_15, Zarbodnamra_14, ZiggyZoo_13,

Summary by start number:

Start 7:

- Found in 1 of 197 (0.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_11 (singleton),

Start 10:

- Found in 5 of 197 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 170
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Toast_14 (CV),

Start 11:

- Found in 3 of 197 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aoka_13 (FO), EvenBluerMoon_15 (FO), SPB78_13 (BA),

Start 12:

- Found in 19 of 197 (9.6%) of genes in pham
- Manual Annotations of this start: 16 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub_49 (S), Blackbeetle_45 (S), Caprice_42 (S), Clarkson_46 (S), Corazon_43 (S), FeliMaine_45 (S), Gattaca_44 (S), Huphlepuuff_47 (S), JoieB_46 (S), Lilbit_46 (S), LittleLaf_45 (S), Marvin_43 (S), MosMoris_43 (S), Poise_45 (S), Pringar_45 (S), Raela_45 (S), RedRaider77_45 (S), Tesla_44 (S), VasuNzinga_45 (S),

Start 13:

- Found in 6 of 197 (3.0%) of genes in pham
- Manual Annotations of this start: 5 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aleemily_13 (DZ), Cafasso_13 (DZ), ModicumRichard_13 (DZ), Morgana_13 (DZ), ObLaDi_13 (DZ), VanLee_14 (singleton),

Start 14:

- Found in 111 of 197 (56.3%) of genes in pham
- Manual Annotations of this start: 92 of 170
- Called 99.1% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_13 (AY), Abscondus_41 (CQ1), Aphelion_42 (CQ1), Apiary_39 (CR), Arti_35 (CR2), Bachita_44 (CQ1), Bantam_24 (DL), Bauer_15 (FN), BiPauneto_38 (CR4), BlackSpider_13 (FN), Bonum_38 (CR2), Braxoaddie_39 (CR), BrayBeast_12 (FB), BrutonGaster_30 (CQ2), Buggaboo_36 (CR2), C3PO_23 (EN), Cardigan_41 (DD), ChewyVIII_49 (singleton), ClubL_42 (CQ1), CocoCinnamon_16 (FO), CoffeeBean_39 (CR), Cole_14 (FF),

Commandaria_37 (CR2), Cruella_23 (EN), Cucurbita_44 (CQ1), Culver_42 (CQ1), Dalilpop_40 (CR1), Daredevil_23 (DL), Darwin_26 (EN), DatBoi_25 (DL), Dusty_40 (CQ1), Elesar_15 (FF), Emianna_35 (CR2), Engineer_43 (CQ1), Ennea_41 (CR3), Flapper_39 (CR1), Float294_37 (CR3), Foxboro_36 (CR2), Fury_44 (CR5), GMA4_13 (singleton), GRU1_25 (CR1), GTE5_26 (CR1), GTE8_24 (CR2), Geeche_41 (CQ1), GrootJr_37 (CR2), Gusanita_14 (FF), GuyFagieri_39 (CR), HubbaBubba_34 (CR4), IDyn_36 (CR4), JanetJ_13 (FO), Jifall16_34 (CR2), JonJames_41 (DD), Kabluna_38 (CR2), KidneyBean_35 (CR2), Kimchi1738_23 (EN), Kumotta_13 (FB), Kurt_35 (CR2), Lenoxika_16 (FF), Lollipop1437_40 (CR3), Lozinak_42 (CQ1), MacGully_43 (CR), Maja_12 (FO), MargaretKali_13 (FB), Marietta_37 (CR4), Maselop_39 (CR), MerCougar_36 (CR2), Miskis_44 (CQ1), Mollymur_25 (DL), MrSmee_12 (UNK), NadineRae_35 (CR4), Nandita_16 (FF), NatB6_35 (CR2), Norvs_43 (CQ1), NosilaM_38 (CR2), NovumRegina_35 (CR2), OneUp_36 (CQ2), Outis_36 (CR2), P1201_38 (singleton), PSonyx_12 (singleton), Patio_38 (CR3), PeteyPab_22 (EN), PhinkBoden_42 (CQ1), Phomeo_34 (CR2), Pleakley_44 (CR5), Polyuyuki_39 (CR), Popper_14 (FF), PotatoChip_23 (EN), QuinnAvery_15 (FF), Raqqa_13 (AY), Ryan_16 (FF), Sarge_12 (FB), Shoya_11 (FB), Skysand_37 (CR3), Smoothie_43 (CQ1), SpeedDemon_250 (DL), StarStruck_36 (CR2), Stickynote_25 (EN), Sukkupi_37 (CR4), SuperSulley_36 (CR2), Toniann_42 (CQ1), Tracker_35 (CR2), Turuncu_39 (CR1), Wheezy_35 (CR2), WhoseManz_37 (CR4), WilliamBoone_42 (CQ1), Yndexa_37 (CR4), Yvonnetastic_39 (DD), Zaheer_16 (FF), Zion_23 (EN), Zucker_14 (FN),

Start 16:

- Found in 2 of 197 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Farewell_11 (AF), Sparky_11 (AF),

Start 19:

- Found in 43 of 197 (21.8%) of genes in pham
- Manual Annotations of this start: 2 of 170
- Called 4.7% of time when present
- Phage (with cluster) where this start called: Obliviate_13 (CV), Pipp_14 (CV),

Start 21:

- Found in 43 of 197 (21.8%) of genes in pham
- Manual Annotations of this start: 39 of 170
- Called 93.0% of time when present
- Phage (with cluster) where this start called: Archis_15 (CV), Azula_16 (CV), Barco_14 (CV), Begonia_14 (CV), BlingBling_14 (CV), Blino_14 (CV), Blueberry_16 (CV), CaptainKirk2_14 (CV), CarolAnn_14 (CV), Delian_14 (CV), Fairfaxidum_14 (CV), Fenry_13 (CV), Frokostdame_14 (CV), Gambino_16 (CV), Guacamole_14 (CV), Hitter_14 (CV), Jalammah_15 (CV), JasperJr_14 (CV), JuJu_14 (CV), KappaFarmDelta_14 (CV), Lysidious_14 (CV), Malachai_14 (CV), Melba_14 (CV), Mellie_13 (CV), MintFen_14 (CV), MissRona_16 (CV), Murp_14 (CV), PCoral7_14 (CV), Petra_16 (CV), PhrostedPhlake_15 (CV), PrincePatrick_14 (CV), Samba_14 (CV), UmaThurman_14 (CV), Utz_14 (CV), Walrus_15 (CV), William_14 (CV), Wisp_13 (CV), Wocket_15 (CV), Zarbodnamra_14 (CV), ZiggyZoo_13 (CV),

Start 24:

- Found in 5 of 197 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 170

- Called 20.0% of time when present
- Phage (with cluster) where this start called: Samy_17 (singleton),

Start 25:

- Found in 2 of 197 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Gsput1_15 (CU2),

Start 26:

- Found in 11 of 197 (5.6%) of genes in pham
- Manual Annotations of this start: 11 of 170
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Banquo_21 (CU1), Catfish_16 (CU5), Dardanus_19 (CU3), DinoDaryn_19 (CU1), Goib_18 (CU1), Huff_19 (CU1), Schmidt_15 (CU4), Splinter_17 (CU1), TZGordon_19 (CU1), TinaLin_20 (CU1), Vendetta_17 (CU1),

Summary by clusters:

There are 28 clusters represented in this pham: singleton, BA, DD, DL, FB, DZ, FF, FN, FO, CU5, CU4, CU3, CU2, CU1, CQ2, CQ1, EN, AF, S, AY, CR, UNK, CV, CR2, CR3, CR1, CR4, CR5,

Info for manual annotations of cluster AF:

- Start number 16 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AY:

- Start number 14 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster CQ1:

- Start number 14 was manually annotated 12 times for cluster CQ1.

Info for manual annotations of cluster CQ2:

- Start number 14 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster CR:

- Start number 14 was manually annotated 7 times for cluster CR.

Info for manual annotations of cluster CR1:

- Start number 14 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 14 was manually annotated 20 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 14 was manually annotated 5 times for cluster CR3.

Info for manual annotations of cluster CR4:

- Start number 14 was manually annotated 7 times for cluster CR4.

Info for manual annotations of cluster CR5:

- Start number 14 was manually annotated 2 times for cluster CR5.

Info for manual annotations of cluster CU1:

- Start number 26 was manually annotated 8 times for cluster CU1.

Info for manual annotations of cluster CU3:

- Start number 26 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:

- Start number 26 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster CU5:

- Start number 26 was manually annotated 1 time for cluster CU5.

Info for manual annotations of cluster CV:

- Start number 10 was manually annotated 1 time for cluster CV.
- Start number 19 was manually annotated 2 times for cluster CV.
- Start number 21 was manually annotated 39 times for cluster CV.

Info for manual annotations of cluster DD:

- Start number 14 was manually annotated 2 times for cluster DD.

Info for manual annotations of cluster DL:

- Start number 14 was manually annotated 5 times for cluster DL.

Info for manual annotations of cluster DZ:

- Start number 13 was manually annotated 4 times for cluster DZ.

Info for manual annotations of cluster EN:

- Start number 14 was manually annotated 8 times for cluster EN.

Info for manual annotations of cluster FB:

- Start number 14 was manually annotated 5 times for cluster FB.

Info for manual annotations of cluster FF:

- Start number 14 was manually annotated 7 times for cluster FF.

Info for manual annotations of cluster FN:

- Start number 14 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:

- Start number 11 was manually annotated 1 time for cluster FO.
- Start number 14 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster S:

- Start number 12 was manually annotated 16 times for cluster S.

Gene Information:

Gene: AbbyDaisy_13 Start: 7857, Stop: 8522, Start Num: 14
Candidate Starts for AbbyDaisy_13:
(Start: 14 @7857 has 92 MA's), (37, 7950), (57, 8064), (66, 8127), (70, 8145), (75, 8175), (94, 8265),
(114, 8349), (121, 8397), (126, 8421), (132, 8451), (135, 8463),

Gene: Abscondus_41 Start: 17642, Stop: 18307, Start Num: 14
Candidate Starts for Abscondus_41:
(Start: 14 @17642 has 92 MA's), (38, 17732), (104, 18089),

Gene: Aleemily_13 Start: 8905, Stop: 9573, Start Num: 13
Candidate Starts for Aleemily_13:
(Start: 13 @8905 has 5 MA's), (93, 9307), (113, 9388), (121, 9445), (137, 9526), (143, 9547),

Gene: Aoka_13 Start: 9111, Stop: 9773, Start Num: 11
Candidate Starts for Aoka_13:
(Start: 11 @9111 has 1 MA's), (29, 9177), (53, 9282), (72, 9408), (76, 9432), (110, 9579), (141, 9744),

Gene: Aphelion_42 Start: 17911, Stop: 18576, Start Num: 14
Candidate Starts for Aphelion_42:
(Start: 14 @17911 has 92 MA's), (38, 18001), (104, 18358), (132, 18511),

Gene: Apiary_39 Start: 23228, Stop: 23896, Start Num: 14
Candidate Starts for Apiary_39:
(Start: 14 @23228 has 92 MA's), (35, 23309), (46, 23366), (59, 23450), (77, 23552), (78, 23564), (99,
23651), (113, 23708), (124, 23777), (125, 23783), (128, 23795), (142, 23861), (143, 23867),

Gene: ArV2_11 Start: 7388, Stop: 8074, Start Num: 7
Candidate Starts for ArV2_11:
(7, 7388), (9, 7394), (Start: 14 @7409 has 92 MA's), (Start: 24 @7454 has 1 MA's), (33, 7487), (53,
7580), (59, 7631), (66, 7679), (69, 7691), (70, 7697), (75, 7727), (90, 7793), (100, 7838), (114, 7901),
(126, 7973), (132, 8003), (135, 8015), (138, 8033),

Gene: Archis_15 Start: 8891, Stop: 9529, Start Num: 21
Candidate Starts for Archis_15:
(Start: 19 @8888 has 2 MA's), (Start: 21 @8891 has 39 MA's), (44, 8981), (45, 8996), (68, 9149), (82,
9224), (88, 9248), (103, 9296), (115, 9353), (120, 9392), (136, 9476), (144, 9512),

Gene: Arti_35 Start: 21382, Stop: 22065, Start Num: 14
Candidate Starts for Arti_35:
(Start: 14 @21382 has 92 MA's), (20, 21400), (43, 21493), (55, 21580), (56, 21583), (77, 21715), (99,
21814), (113, 21871), (124, 21940), (130, 21970), (134, 21991), (143, 22030),

Gene: Azula_16 Start: 9023, Stop: 9661, Start Num: 21
Candidate Starts for Azula_16:
(Start: 19 @9020 has 2 MA's), (Start: 21 @9023 has 39 MA's), (44, 9113), (45, 9128), (55, 9194), (60,
9230), (68, 9281), (82, 9356), (88, 9380), (103, 9428), (115, 9485), (120, 9524), (136, 9608), (144,
9644),

Gene: Bachita_44 Start: 18344, Stop: 19009, Start Num: 14
Candidate Starts for Bachita_44:
(Start: 14 @18344 has 92 MA's), (38, 18434), (104, 18791), (132, 18944),

Gene: Banquo_21 Start: 11777, Stop: 12373, Start Num: 26

Candidate Starts for Banquo_21:

(Start: 26 @11777 has 11 MA's), (45, 11861), (50, 11885), (58, 11939), (78, 12062), (105, 12173), (106, 12176), (107, 12185), (112, 12203), (117, 12242), (128, 12293),

Gene: Bantam_24 Start: 15333, Stop: 15989, Start Num: 14

Candidate Starts for Bantam_24:

(5, 15276), (Start: 14 @15333 has 92 MA's), (27, 15384), (31, 15399), (82, 15678),

Gene: Barco_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for Barco_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: Bauer_15 Start: 9233, Stop: 9898, Start Num: 14

Candidate Starts for Bauer_15:

(Start: 14 @9233 has 92 MA's), (Start: 24 @9278 has 1 MA's), (32, 9308), (53, 9401), (54, 9404), (58, 9443), (65, 9494), (90, 9614), (132, 9824), (138, 9854),

Gene: Beelzebub_49 Start: 19342, Stop: 20007, Start Num: 12

Candidate Starts for Beelzebub_49:

(Start: 12 @19342 has 16 MA's), (30, 19408), (52, 19501), (55, 19528), (67, 19612), (80, 19684), (114, 19831), (115, 19837), (119, 19864), (120, 19876),

Gene: Begonia_14 Start: 8682, Stop: 9320, Start Num: 21

Candidate Starts for Begonia_14:

(Start: 19 @8679 has 2 MA's), (Start: 21 @8682 has 39 MA's), (44, 8772), (45, 8787), (55, 8853), (82, 9015), (88, 9039), (103, 9087), (115, 9144), (120, 9183), (136, 9267), (144, 9303),

Gene: BiPauneto_38 Start: 21225, Stop: 21905, Start Num: 14

Candidate Starts for BiPauneto_38:

(Start: 14 @21225 has 92 MA's), (55, 21420), (67, 21504), (77, 21555), (99, 21654), (113, 21711), (124, 21780), (134, 21831), (143, 21870),

Gene: BlackSpider_13 Start: 8260, Stop: 8922, Start Num: 14

Candidate Starts for BlackSpider_13:

(Start: 14 @8260 has 92 MA's), (30, 8329), (35, 8347), (37, 8353), (59, 8482), (69, 8542), (75, 8578), (82, 8614), (85, 8626), (94, 8665), (108, 8725), (114, 8749),

Gene: Blackbeetle_45 Start: 18361, Stop: 19026, Start Num: 12

Candidate Starts for Blackbeetle_45:

(Start: 12 @18361 has 16 MA's), (30, 18427), (52, 18520), (55, 18547), (67, 18631), (80, 18703), (114, 18850), (115, 18856), (119, 18883), (120, 18895),

Gene: BlingBling_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for BlingBling_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: Blino_14 Start: 8579, Stop: 9217, Start Num: 21

Candidate Starts for Blino_14:

(Start: 19 @8576 has 2 MA's), (Start: 21 @8579 has 39 MA's), (44, 8669), (45, 8684), (55, 8750), (68, 8837), (82, 8912), (88, 8936), (103, 8984), (115, 9041), (120, 9080), (136, 9164), (144, 9200),

Gene: Blueberry_16 Start: 9023, Stop: 9661, Start Num: 21

Candidate Starts for Blueberry_16:

(Start: 19 @9020 has 2 MA's), (Start: 21 @9023 has 39 MA's), (44, 9113), (45, 9128), (55, 9194), (60, 9230), (68, 9281), (82, 9356), (88, 9380), (103, 9428), (115, 9485), (120, 9524), (136, 9608), (144, 9644),

Gene: Bonum_38 Start: 21700, Stop: 22383, Start Num: 14

Candidate Starts for Bonum_38:

(Start: 14 @21700 has 92 MA's), (56, 21901), (61, 21949), (77, 22033), (83, 22063), (99, 22132), (102, 22141), (113, 22189), (124, 22258), (143, 22348),

Gene: Braxoaddie_39 Start: 23217, Stop: 23885, Start Num: 14

Candidate Starts for Braxoaddie_39:

(Start: 14 @23217 has 92 MA's), (35, 23298), (46, 23355), (59, 23439), (77, 23541), (78, 23553), (99, 23640), (113, 23697), (124, 23766), (125, 23772), (128, 23784), (142, 23850), (143, 23856),

Gene: BrayBeast_12 Start: 8007, Stop: 8660, Start Num: 14

Candidate Starts for BrayBeast_12:

(Start: 14 @8007 has 92 MA's), (29, 8067), (43, 8118), (53, 8172), (65, 8268), (67, 8277), (72, 8298), (76, 8322), (82, 8355), (110, 8469), (141, 8634),

Gene: BrutonGaster_30 Start: 14524, Stop: 15189, Start Num: 14

Candidate Starts for BrutonGaster_30:

(8, 14506), (Start: 14 @14524 has 92 MA's), (59, 14755), (69, 14815), (71, 14824), (95, 14941),

Gene: Buggaboo_36 Start: 22185, Stop: 22868, Start Num: 14

Candidate Starts for Buggaboo_36:

(Start: 14 @22185 has 92 MA's), (56, 22386), (77, 22518), (99, 22617), (102, 22626), (113, 22674), (124, 22743), (143, 22833),

Gene: C3PO_23 Start: 15961, Stop: 16623, Start Num: 14

Candidate Starts for C3PO_23:

(Start: 14 @15961 has 92 MA's), (20, 15979), (35, 16042), (37, 16048), (77, 16282), (99, 16378), (113, 16435), (115, 16450), (143, 16594),

Gene: Cafasso_13 Start: 8905, Stop: 9573, Start Num: 13

Candidate Starts for Cafasso_13:

(Start: 13 @8905 has 5 MA's), (93, 9307), (113, 9388), (121, 9445), (137, 9526), (143, 9547),

Gene: Caprice_42 Start: 18431, Stop: 19096, Start Num: 12

Candidate Starts for Caprice_42:

(Start: 12 @18431 has 16 MA's), (30, 18497), (52, 18590), (55, 18617), (67, 18701), (80, 18773), (114, 18920), (115, 18926), (119, 18953), (120, 18965),

Gene: CaptainKirk2_14 Start: 8682, Stop: 9320, Start Num: 21

Candidate Starts for CaptainKirk2_14:

(Start: 19 @8679 has 2 MA's), (Start: 21 @8682 has 39 MA's), (44, 8772), (45, 8787), (68, 8940), (82, 9015), (88, 9039), (103, 9087), (115, 9144), (120, 9183), (136, 9267), (144, 9303),

Gene: Cardigan_41 Start: 19485, Stop: 20150, Start Num: 14

Candidate Starts for Cardigan_41:

(Start: 14 @19485 has 92 MA's), (39, 19578), (52, 19647), (82, 19836), (89, 19863), (128, 20052),

Gene: CarolAnn_14 Start: 8578, Stop: 9216, Start Num: 21

Candidate Starts for CarolAnn_14:

(Start: 19 @8575 has 2 MA's), (Start: 21 @8578 has 39 MA's), (44, 8668), (45, 8683), (55, 8749), (68, 8836), (82, 8911), (88, 8935), (103, 8983), (115, 9040), (120, 9079), (136, 9163), (144, 9199),

Gene: Catfish_16 Start: 9760, Stop: 10344, Start Num: 26

Candidate Starts for Catfish_16:

(18, 9721), (Start: 26 @9760 has 11 MA's), (40, 9811), (45, 9844), (50, 9868), (92, 10096), (98, 10135), (105, 10156), (107, 10168), (117, 10225), (131, 10291), (134, 10297),

Gene: ChewyVIII_49 Start: 28800, Stop: 29486, Start Num: 14

Candidate Starts for ChewyVIII_49:

(Start: 14 @28800 has 92 MA's), (33, 28875), (67, 29088), (77, 29139), (99, 29238), (110, 29283), (113, 29295), (124, 29364), (125, 29370), (143, 29454), (147, 29472),

Gene: Clarkson_46 Start: 19043, Stop: 19708, Start Num: 12

Candidate Starts for Clarkson_46:

(Start: 12 @19043 has 16 MA's), (30, 19109), (52, 19202), (55, 19229), (67, 19313), (80, 19385), (114, 19532), (115, 19538), (119, 19565), (120, 19577),

Gene: ClubL_42 Start: 17833, Stop: 18498, Start Num: 14

Candidate Starts for ClubL_42:

(Start: 14 @17833 has 92 MA's), (38, 17923), (104, 18280), (132, 18433),

Gene: CocoCinnamon_16 Start: 9346, Stop: 9993, Start Num: 14

Candidate Starts for CocoCinnamon_16:

(Start: 14 @9346 has 92 MA's), (15, 9349), (29, 9406), (43, 9457), (48, 9478), (72, 9634), (76, 9658), (79, 9682), (94, 9742), (99, 9760), (141, 9970),

Gene: CoffeeBean_39 Start: 23172, Stop: 23840, Start Num: 14

Candidate Starts for CoffeeBean_39:

(Start: 14 @23172 has 92 MA's), (35, 23253), (46, 23310), (59, 23394), (77, 23496), (78, 23508), (99, 23595), (113, 23652), (124, 23721), (125, 23727), (128, 23739), (142, 23805), (143, 23811),

Gene: Cole_14 Start: 8911, Stop: 9579, Start Num: 14

Candidate Starts for Cole_14:

(Start: 14 @8911 has 92 MA's), (70, 9199), (94, 9319), (121, 9451), (132, 9505),

Gene: Commandaria_37 Start: 22702, Stop: 23388, Start Num: 14

Candidate Starts for Commandaria_37:

(Start: 14 @22702 has 92 MA's), (55, 22900), (56, 22903), (61, 22951), (77, 23035), (99, 23134), (113, 23191), (122, 23251), (124, 23260), (130, 23290), (134, 23311), (143, 23350),

Gene: Corazon_43 Start: 18996, Stop: 19661, Start Num: 12

Candidate Starts for Corazon_43:

(Start: 12 @18996 has 16 MA's), (30, 19062), (52, 19155), (55, 19182), (67, 19266), (80, 19338), (114, 19485), (115, 19491), (119, 19518), (120, 19530),

Gene: Cruella_23 Start: 15961, Stop: 16623, Start Num: 14

Candidate Starts for Cruella_23:

(Start: 14 @15961 has 92 MA's), (20, 15979), (35, 16042), (37, 16048), (77, 16282), (99, 16378), (113, 16435), (115, 16450), (143, 16594),

Gene: Cucurbita_44 Start: 19203, Stop: 19868, Start Num: 14
Candidate Starts for Cucurbita_44:
(Start: 14 @19203 has 92 MA's), (38, 19293), (104, 19650), (132, 19803),

Gene: Culver_42 Start: 17642, Stop: 18307, Start Num: 14
Candidate Starts for Culver_42:
(Start: 14 @17642 has 92 MA's), (38, 17732), (104, 18089),

Gene: Dalilpop_40 Start: 23693, Stop: 24376, Start Num: 14
Candidate Starts for Dalilpop_40:
(Start: 14 @23693 has 92 MA's), (56, 23894), (77, 24026), (99, 24125), (108, 24164), (113, 24182),
(124, 24251), (134, 24302), (143, 24341),

Gene: Dardanus_19 Start: 10822, Stop: 11409, Start Num: 26
Candidate Starts for Dardanus_19:
(Start: 26 @10822 has 11 MA's), (40, 10873), (43, 10888), (45, 10906), (50, 10930), (71, 11062), (78,
11107), (105, 11218), (131, 11353), (134, 11359),

Gene: Daredevil_23 Start: 13726, Stop: 14382, Start Num: 14
Candidate Starts for Daredevil_23:
(5, 13669), (Start: 14 @13726 has 92 MA's), (22, 13747), (27, 13777), (69, 14002), (91, 14104), (116,
14224), (132, 14311), (133, 14314), (134, 14320),

Gene: Darwin_26 Start: 16706, Stop: 17368, Start Num: 14
Candidate Starts for Darwin_26:
(Start: 14 @16706 has 92 MA's), (20, 16724), (35, 16787), (37, 16793), (77, 17027), (99, 17123), (113,
17180), (115, 17195), (143, 17339),

Gene: DatBoi_25 Start: 16122, Stop: 16778, Start Num: 14
Candidate Starts for DatBoi_25:
(5, 16065), (Start: 14 @16122 has 92 MA's), (27, 16173), (82, 16467),

Gene: Delian_14 Start: 8682, Stop: 9320, Start Num: 21
Candidate Starts for Delian_14:
(Start: 19 @8679 has 2 MA's), (Start: 21 @8682 has 39 MA's), (44, 8772), (45, 8787), (68, 8940), (82,
9015), (88, 9039), (103, 9087), (115, 9144), (120, 9183), (136, 9267), (144, 9303),

Gene: DinoDaryn_19 Start: 10919, Stop: 11509, Start Num: 26
Candidate Starts for DinoDaryn_19:
(Start: 26 @10919 has 11 MA's), (34, 10952), (43, 10985), (45, 11003), (78, 11204), (105, 11315),
(106, 11318), (112, 11345), (124, 11417),

Gene: Dusty_40 Start: 17642, Stop: 18307, Start Num: 14
Candidate Starts for Dusty_40:
(Start: 14 @17642 has 92 MA's), (38, 17732), (104, 18089),

Gene: Elesar_15 Start: 9307, Stop: 9969, Start Num: 14
Candidate Starts for Elesar_15:
(Start: 14 @9307 has 92 MA's), (30, 9376), (35, 9394), (37, 9400), (64, 9568), (66, 9577), (69, 9589),
(75, 9625), (114, 9796), (126, 9868), (130, 9886),

Gene: Emianna_35 Start: 22419, Stop: 23102, Start Num: 14
Candidate Starts for Emianna_35:

(Start: 14 @22419 has 92 MA's), (20, 22437), (43, 22530), (55, 22617), (56, 22620), (77, 22752), (99, 22851), (113, 22908), (124, 22977), (130, 23007), (134, 23028), (143, 23067),

Gene: Engineer_43 Start: 17859, Stop: 18524, Start Num: 14

Candidate Starts for Engineer_43:

(Start: 14 @17859 has 92 MA's), (38, 17949), (104, 18306), (132, 18459),

Gene: Ennea_41 Start: 23023, Stop: 23706, Start Num: 14

Candidate Starts for Ennea_41:

(Start: 14 @23023 has 92 MA's), (56, 23224), (77, 23356), (82, 23383), (99, 23455), (113, 23512), (124, 23581), (134, 23632), (143, 23671),

Gene: EvenBluerMoon_15 Start: 9146, Stop: 9808, Start Num: 11

Candidate Starts for EvenBluerMoon_15:

(Start: 11 @9146 has 1 MA's), (29, 9212), (47, 9284), (53, 9317), (72, 9443), (76, 9467), (141, 9779),

Gene: Fairfaxidum_14 Start: 8713, Stop: 9366, Start Num: 21

Candidate Starts for Fairfaxidum_14:

(Start: 10 @8683 has 1 MA's), (Start: 19 @8710 has 2 MA's), (Start: 21 @8713 has 39 MA's), (44, 8803), (45, 8818), (67, 8968), (82, 9046), (88, 9070), (97, 9100), (103, 9118), (120, 9214), (136, 9298),

Gene: Farewell_11 Start: 8044, Stop: 8706, Start Num: 16

Candidate Starts for Farewell_11:

(Start: 16 @8044 has 2 MA's), (23, 8065), (51, 8194), (57, 8242), (62, 8284), (68, 8311), (71, 8326), (88, 8410), (100, 8458), (115, 8527), (143, 8677),

Gene: FeliMaine_45 Start: 19044, Stop: 19709, Start Num: 12

Candidate Starts for FeliMaine_45:

(Start: 12 @19044 has 16 MA's), (30, 19110), (52, 19203), (55, 19230), (67, 19314), (80, 19386), (114, 19533), (115, 19539), (119, 19566), (120, 19578),

Gene: Fenry_13 Start: 8428, Stop: 9066, Start Num: 21

Candidate Starts for Fenry_13:

(Start: 19 @8425 has 2 MA's), (Start: 21 @8428 has 39 MA's), (44, 8518), (45, 8533), (68, 8686), (82, 8761), (88, 8785), (103, 8833), (115, 8890), (120, 8929), (136, 9013), (144, 9049),

Gene: Flapper_39 Start: 22775, Stop: 23458, Start Num: 14

Candidate Starts for Flapper_39:

(Start: 14 @22775 has 92 MA's), (56, 22976), (61, 23024), (77, 23108), (99, 23207), (108, 23246), (113, 23264), (124, 23333), (134, 23384), (143, 23423),

Gene: Float294_37 Start: 22462, Stop: 23145, Start Num: 14

Candidate Starts for Float294_37:

(Start: 14 @22462 has 92 MA's), (56, 22663), (77, 22795), (82, 22822), (99, 22894), (113, 22951), (124, 23020), (134, 23071), (143, 23110),

Gene: Foxboro_36 Start: 22925, Stop: 23608, Start Num: 14

Candidate Starts for Foxboro_36:

(Start: 14 @22925 has 92 MA's), (20, 22943), (43, 23036), (55, 23123), (56, 23126), (77, 23258), (99, 23357), (113, 23414), (124, 23483), (130, 23513), (134, 23534), (143, 23573),

Gene: Frokostdame_14 Start: 8673, Stop: 9311, Start Num: 21

Candidate Starts for Frokostdame_14:

(1, 8058), (2, 8316), (Start: 19 @8670 has 2 MA's), (Start: 21 @8673 has 39 MA's), (45, 8778), (68, 8931), (82, 9006), (88, 9030), (103, 9078), (120, 9174), (136, 9258), (144, 9294),

Gene: Fury_44 Start: 22072, Stop: 22755, Start Num: 14

Candidate Starts for Fury_44:

(Start: 14 @22072 has 92 MA's), (56, 22273), (67, 22354), (76, 22399), (77, 22405), (78, 22417), (99, 22504), (113, 22561), (124, 22630), (134, 22681), (140, 22711), (143, 22720),

Gene: GMA4_13 Start: 8955, Stop: 9626, Start Num: 14

Candidate Starts for GMA4_13:

(6, 8925), (9, 8940), (Start: 14 @8955 has 92 MA's), (25, 9000), (41, 9060), (89, 9342), (124, 9513), (125, 9519),

Gene: GRU1_25 Start: 14660, Stop: 15343, Start Num: 14

Candidate Starts for GRU1_25:

(Start: 14 @14660 has 92 MA's), (56, 14861), (77, 14993), (99, 15092), (108, 15131), (113, 15149), (124, 15218), (134, 15269), (143, 15308),

Gene: GTE5_26 Start: 15663, Stop: 16346, Start Num: 14

Candidate Starts for GTE5_26:

(Start: 14 @15663 has 92 MA's), (56, 15864), (77, 15996), (99, 16095), (108, 16134), (113, 16152), (124, 16221), (134, 16272), (143, 16311),

Gene: GTE8_24 Start: 15678, Stop: 16361, Start Num: 14

Candidate Starts for GTE8_24:

(Start: 14 @15678 has 92 MA's), (20, 15696), (77, 16011), (82, 16038), (99, 16110), (113, 16167), (124, 16236), (130, 16266), (132, 16278), (134, 16287), (143, 16326),

Gene: Gambino_16 Start: 9023, Stop: 9661, Start Num: 21

Candidate Starts for Gambino_16:

(Start: 19 @9020 has 2 MA's), (Start: 21 @9023 has 39 MA's), (44, 9113), (45, 9128), (55, 9194), (60, 9230), (68, 9281), (82, 9356), (88, 9380), (103, 9428), (115, 9485), (120, 9524), (136, 9608), (144, 9644),

Gene: Gattaca_44 Start: 18223, Stop: 18888, Start Num: 12

Candidate Starts for Gattaca_44:

(Start: 12 @18223 has 16 MA's), (30, 18289), (52, 18382), (55, 18409), (67, 18493), (80, 18565), (114, 18712), (115, 18718), (119, 18745), (120, 18757),

Gene: Geeche_41 Start: 17733, Stop: 18398, Start Num: 14

Candidate Starts for Geeche_41:

(Start: 14 @17733 has 92 MA's), (38, 17823), (104, 18180), (132, 18333),

Gene: Goib_18 Start: 10694, Stop: 11284, Start Num: 26

Candidate Starts for Goib_18:

(Start: 26 @10694 has 11 MA's), (34, 10727), (43, 10760), (45, 10778), (58, 10856), (105, 11090), (106, 11093), (112, 11120), (124, 11192),

Gene: GrootJr_37 Start: 21777, Stop: 22460, Start Num: 14

Candidate Starts for GrootJr_37:

(Start: 14 @21777 has 92 MA's), (20, 21795), (43, 21888), (55, 21975), (56, 21978), (77, 22110), (99, 22209), (113, 22266), (124, 22335), (130, 22365), (134, 22386), (143, 22425),

Gene: Gspu1_15 Start: 9141, Stop: 9716, Start Num: 25

Candidate Starts for Gspu1_15:

(18, 9105), (25, 9141), (34, 9174), (38, 9186), (40, 9192), (43, 9207), (45, 9225), (71, 9381), (72, 9384), (89, 9468), (98, 9504), (105, 9525), (107, 9537),

Gene: Guacamole_14 Start: 8683, Stop: 9321, Start Num: 21

Candidate Starts for Guacamole_14:

(Start: 19 @8680 has 2 MA's), (Start: 21 @8683 has 39 MA's), (44, 8773), (45, 8788), (68, 8941), (82, 9016), (88, 9040), (103, 9088), (115, 9145), (120, 9184), (136, 9268), (144, 9304),

Gene: Gusanita_14 Start: 9128, Stop: 9796, Start Num: 14

Candidate Starts for Gusanita_14:

(Start: 14 @9128 has 92 MA's), (46, 9263), (59, 9350), (70, 9416), (94, 9536), (129, 9707), (132, 9722),

Gene: GuyFagieri_39 Start: 23053, Stop: 23721, Start Num: 14

Candidate Starts for GuyFagieri_39:

(Start: 14 @23053 has 92 MA's), (35, 23134), (38, 23143), (59, 23275), (77, 23377), (78, 23389), (99, 23476), (113, 23533), (124, 23602), (125, 23608), (128, 23620), (143, 23692),

Gene: Hitter_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for Hitter_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (55, 8850), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: HubbaBubba_34 Start: 18243, Stop: 18923, Start Num: 14

Candidate Starts for HubbaBubba_34:

(Start: 14 @18243 has 92 MA's), (55, 18438), (67, 18522), (77, 18573), (82, 18600), (99, 18672), (113, 18729), (124, 18798), (134, 18849), (143, 18888),

Gene: Huffy_19 Start: 10919, Stop: 11509, Start Num: 26

Candidate Starts for Huffy_19:

(Start: 26 @10919 has 11 MA's), (34, 10952), (43, 10985), (45, 11003), (78, 11204), (105, 11315), (106, 11318), (112, 11345), (124, 11417),

Gene: Huphlepuuff_47 Start: 18848, Stop: 19513, Start Num: 12

Candidate Starts for Huphlepuuff_47:

(Start: 12 @18848 has 16 MA's), (30, 18914), (52, 19007), (55, 19034), (67, 19118), (80, 19190), (114, 19337), (115, 19343), (119, 19370), (120, 19382),

Gene: IDyn_36 Start: 19639, Stop: 20319, Start Num: 14

Candidate Starts for IDyn_36:

(Start: 14 @19639 has 92 MA's), (55, 19834), (67, 19918), (77, 19969), (99, 20068), (113, 20125), (124, 20194), (134, 20245), (143, 20284),

Gene: Jalammah_15 Start: 8950, Stop: 9588, Start Num: 21

Candidate Starts for Jalammah_15:

(Start: 19 @8947 has 2 MA's), (Start: 21 @8950 has 39 MA's), (44, 9040), (45, 9055), (55, 9121), (68, 9208), (82, 9283), (88, 9307), (103, 9355), (115, 9412), (120, 9451), (136, 9535), (144, 9571),

Gene: JanetJ_13 Start: 8928, Stop: 9581, Start Num: 14

Candidate Starts for JanetJ_13:

(Start: 14 @8928 has 92 MA's), (15, 8931), (50, 9081), (53, 9093), (72, 9219), (76, 9243), (77, 9249), (115, 9417), (141, 9555),

Gene: JasperJr_14 Start: 8683, Stop: 9321, Start Num: 21

Candidate Starts for JasperJr_14:

(Start: 19 @8680 has 2 MA's), (Start: 21 @8683 has 39 MA's), (44, 8773), (45, 8788), (68, 8941), (82, 9016), (88, 9040), (103, 9088), (115, 9145), (120, 9184), (136, 9268), (144, 9304),

Gene: Jifall16_34 Start: 22046, Stop: 22729, Start Num: 14

Candidate Starts for Jifall16_34:

(Start: 14 @22046 has 92 MA's), (20, 22064), (43, 22157), (55, 22244), (56, 22247), (77, 22379), (99, 22478), (113, 22535), (124, 22604), (130, 22634), (134, 22655), (143, 22694),

Gene: JoieB_46 Start: 19067, Stop: 19732, Start Num: 12

Candidate Starts for JoieB_46:

(Start: 12 @19067 has 16 MA's), (30, 19133), (52, 19226), (55, 19253), (67, 19337), (80, 19409), (114, 19556), (115, 19562), (119, 19589), (120, 19601),

Gene: JonJames_41 Start: 21700, Stop: 22365, Start Num: 14

Candidate Starts for JonJames_41:

(Start: 14 @21700 has 92 MA's), (39, 21793), (52, 21862), (82, 22051), (89, 22078), (128, 22267),

Gene: JuJu_14 Start: 8607, Stop: 9245, Start Num: 21

Candidate Starts for JuJu_14:

(Start: 19 @8604 has 2 MA's), (Start: 21 @8607 has 39 MA's), (44, 8697), (45, 8712), (68, 8865), (82, 8940), (88, 8964), (103, 9012), (115, 9069), (120, 9108), (136, 9192), (144, 9228),

Gene: Kabluna_38 Start: 21100, Stop: 21783, Start Num: 14

Candidate Starts for Kabluna_38:

(Start: 14 @21100 has 92 MA's), (56, 21301), (61, 21349), (77, 21433), (99, 21532), (113, 21589), (124, 21658), (143, 21748),

Gene: KappaFarmDelta_14 Start: 8832, Stop: 9470, Start Num: 21

Candidate Starts for KappaFarmDelta_14:

(Start: 19 @8829 has 2 MA's), (Start: 21 @8832 has 39 MA's), (44, 8922), (45, 8937), (55, 9003), (60, 9039), (82, 9165), (88, 9189), (103, 9237), (115, 9294), (120, 9333), (136, 9417), (144, 9453),

Gene: KidneyBean_35 Start: 22194, Stop: 22877, Start Num: 14

Candidate Starts for KidneyBean_35:

(Start: 14 @22194 has 92 MA's), (20, 22212), (43, 22305), (56, 22395), (77, 22527), (99, 22626), (113, 22683), (124, 22752), (130, 22782), (134, 22803), (143, 22842),

Gene: Kimchi1738_23 Start: 15559, Stop: 16221, Start Num: 14

Candidate Starts for Kimchi1738_23:

(Start: 14 @15559 has 92 MA's), (20, 15577), (35, 15640), (37, 15646), (77, 15880), (99, 15976), (113, 16033), (115, 16048), (143, 16192),

Gene: Kumotta_13 Start: 8849, Stop: 9499, Start Num: 14

Candidate Starts for Kumotta_13:

(Start: 14 @8849 has 92 MA's), (29, 8909), (33, 8921), (50, 8999), (65, 9107), (72, 9137), (76, 9161), (79, 9185), (82, 9194), (110, 9308), (141, 9473),

Gene: Kurt_35 Start: 22434, Stop: 23117, Start Num: 14

Candidate Starts for Kurt_35:

(Start: 14 @22434 has 92 MA's), (20, 22452), (43, 22545), (55, 22632), (56, 22635), (77, 22767), (99, 22866), (113, 22923), (124, 22992), (130, 23022), (134, 23043), (143, 23082),

Gene: Lenoxika_16 Start: 9239, Stop: 9907, Start Num: 14

Candidate Starts for Lenoxika_16:

(Start: 14 @9239 has 92 MA's), (30, 9308), (59, 9461), (70, 9527), (94, 9647), (121, 9779), (132, 9833),

Gene: Lilbit_46 Start: 19044, Stop: 19709, Start Num: 12

Candidate Starts for Lilbit_46:

(Start: 12 @19044 has 16 MA's), (30, 19110), (52, 19203), (55, 19230), (67, 19314), (80, 19386), (114, 19533), (115, 19539), (119, 19566), (120, 19578),

Gene: LittleLaf_45 Start: 18773, Stop: 19438, Start Num: 12

Candidate Starts for LittleLaf_45:

(Start: 12 @18773 has 16 MA's), (30, 18839), (52, 18932), (55, 18959), (67, 19043), (80, 19115), (114, 19262), (115, 19268), (119, 19295), (120, 19307),

Gene: Lollipop1437_40 Start: 23011, Stop: 23694, Start Num: 14

Candidate Starts for Lollipop1437_40:

(Start: 14 @23011 has 92 MA's), (56, 23212), (77, 23344), (82, 23371), (99, 23443), (113, 23500), (124, 23569), (134, 23620), (143, 23659),

Gene: Lozinak_42 Start: 17914, Stop: 18579, Start Num: 14

Candidate Starts for Lozinak_42:

(Start: 14 @17914 has 92 MA's), (38, 18004), (104, 18361), (132, 18514),

Gene: Lysidious_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for Lysidious_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (55, 8850), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: MacGully_43 Start: 23224, Stop: 23904, Start Num: 14

Candidate Starts for MacGully_43:

(Start: 14 @23224 has 92 MA's), (Start: 24 @23263 has 1 MA's), (35, 23305), (59, 23449), (77, 23551), (78, 23563), (82, 23578), (99, 23650), (113, 23707), (118, 23746), (124, 23776), (128, 23794), (129, 23803), (132, 23818), (143, 23866), (145, 23878),

Gene: Maja_12 Start: 8474, Stop: 9121, Start Num: 14

Candidate Starts for Maja_12:

(Start: 14 @8474 has 92 MA's), (15, 8477), (29, 8534), (35, 8555), (43, 8585), (52, 8630), (72, 8762), (76, 8786), (94, 8870), (141, 9098),

Gene: Malachai_14 Start: 8682, Stop: 9320, Start Num: 21

Candidate Starts for Malachai_14:

(Start: 19 @8679 has 2 MA's), (Start: 21 @8682 has 39 MA's), (44, 8772), (45, 8787), (55, 8853), (82, 9015), (88, 9039), (103, 9087), (115, 9144), (120, 9183), (136, 9267), (144, 9303),

Gene: MargaretKali_13 Start: 8484, Stop: 9134, Start Num: 14

Candidate Starts for MargaretKali_13:

(Start: 14 @8484 has 92 MA's), (47, 8613), (49, 8619), (53, 8646), (69, 8760), (72, 8772), (76, 8796), (79, 8820), (82, 8829), (110, 8943), (121, 9012), (125, 9030), (137, 9093), (141, 9108),

Gene: Marietta_37 Start: 19554, Stop: 20234, Start Num: 14

Candidate Starts for Marietta_37:

(3, 19380), (Start: 14 @19554 has 92 MA's), (55, 19752), (77, 19887), (99, 19986), (108, 20025), (113, 20043), (122, 20103), (124, 20112), (134, 20163), (143, 20202), (145, 20214),

Gene: Marvin_43 Start: 19043, Stop: 19708, Start Num: 12

Candidate Starts for Marvin_43:

(Start: 12 @19043 has 16 MA's), (30, 19109), (52, 19202), (55, 19229), (67, 19313), (80, 19385), (114, 19532), (115, 19538), (119, 19565), (120, 19577),

Gene: Maselop_39 Start: 23248, Stop: 23916, Start Num: 14

Candidate Starts for Maselop_39:

(Start: 14 @23248 has 92 MA's), (35, 23329), (46, 23386), (59, 23470), (77, 23572), (78, 23584), (99, 23671), (113, 23728), (124, 23797), (125, 23803), (128, 23815), (142, 23881), (143, 23887),

Gene: Melba_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for Melba_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: Mellie_13 Start: 8419, Stop: 9057, Start Num: 21

Candidate Starts for Mellie_13:

(Start: 19 @8416 has 2 MA's), (Start: 21 @8419 has 39 MA's), (44, 8509), (45, 8524), (55, 8590), (68, 8677), (82, 8752), (88, 8776), (103, 8824), (115, 8881), (120, 8920), (136, 9004), (144, 9040),

Gene: MerCougar_36 Start: 22307, Stop: 22990, Start Num: 14

Candidate Starts for MerCougar_36:

(Start: 14 @22307 has 92 MA's), (56, 22508), (77, 22640), (99, 22739), (102, 22748), (113, 22796), (124, 22865), (143, 22955),

Gene: MintFen_14 Start: 8679, Stop: 9317, Start Num: 21

Candidate Starts for MintFen_14:

(Start: 19 @8676 has 2 MA's), (Start: 21 @8679 has 39 MA's), (44, 8769), (45, 8784), (68, 8937), (82, 9012), (88, 9036), (103, 9084), (115, 9141), (120, 9180), (136, 9264), (144, 9300),

Gene: Miskis_44 Start: 17677, Stop: 18342, Start Num: 14

Candidate Starts for Miskis_44:

(Start: 14 @17677 has 92 MA's), (38, 17767), (104, 18124),

Gene: MissRona_16 Start: 9023, Stop: 9661, Start Num: 21

Candidate Starts for MissRona_16:

(Start: 19 @9020 has 2 MA's), (Start: 21 @9023 has 39 MA's), (44, 9113), (45, 9128), (55, 9194), (60, 9230), (68, 9281), (82, 9356), (88, 9380), (103, 9428), (115, 9485), (120, 9524), (136, 9608), (144, 9644),

Gene: ModicumRichard_13 Start: 8905, Stop: 9573, Start Num: 13

Candidate Starts for ModicumRichard_13:

(Start: 13 @8905 has 5 MA's), (93, 9307), (113, 9388), (121, 9445), (137, 9526), (143, 9547),

Gene: Mollymur_25 Start: 16148, Stop: 16804, Start Num: 14

Candidate Starts for Mollymur_25:

(Start: 14 @16148 has 92 MA's), (28, 16202), (31, 16214), (54, 16313), (89, 16520), (95, 16550), (96, 16553),

Gene: Morgana_13 Start: 8909, Stop: 9580, Start Num: 13

Candidate Starts for Morgana_13:

(Start: 13 @8909 has 5 MA's), (93, 9311), (113, 9392), (121, 9449), (137, 9530), (143, 9551),

Gene: MosMoris_43 Start: 18223, Stop: 18888, Start Num: 12

Candidate Starts for MosMoris_43:

(Start: 12 @18223 has 16 MA's), (30, 18289), (52, 18382), (55, 18409), (67, 18493), (80, 18565), (114, 18712), (115, 18718), (119, 18745), (120, 18757),

Gene: MrSmee_12 Start: 7019, Stop: 7681, Start Num: 14

Candidate Starts for MrSmee_12:

(Start: 14 @7019 has 92 MA's), (30, 7088), (35, 7106), (37, 7112), (59, 7241), (69, 7301), (75, 7337), (82, 7373), (85, 7385), (94, 7424), (114, 7508),

Gene: Murp_14 Start: 8672, Stop: 9310, Start Num: 21

Candidate Starts for Murp_14:

(Start: 19 @8669 has 2 MA's), (Start: 21 @8672 has 39 MA's), (44, 8762), (45, 8777), (55, 8843), (60, 8879), (68, 8930), (82, 9005), (88, 9029), (115, 9134), (120, 9173), (136, 9257), (144, 9293),

Gene: NadineRae_35 Start: 18802, Stop: 19482, Start Num: 14

Candidate Starts for NadineRae_35:

(Start: 14 @18802 has 92 MA's), (55, 18997), (67, 19081), (77, 19132), (99, 19231), (113, 19288), (124, 19357), (134, 19408), (143, 19447),

Gene: Nandita_16 Start: 9237, Stop: 9905, Start Num: 14

Candidate Starts for Nandita_16:

(Start: 14 @9237 has 92 MA's), (30, 9306), (59, 9459), (70, 9525), (94, 9645), (121, 9777), (132, 9831),

Gene: NatB6_35 Start: 21443, Stop: 22126, Start Num: 14

Candidate Starts for NatB6_35:

(Start: 14 @21443 has 92 MA's), (20, 21461), (43, 21554), (55, 21641), (56, 21644), (77, 21776), (99, 21875), (113, 21932), (124, 22001), (130, 22031), (134, 22052), (143, 22091),

Gene: Norvs_43 Start: 17916, Stop: 18581, Start Num: 14

Candidate Starts for Norvs_43:

(Start: 14 @17916 has 92 MA's), (38, 18006), (104, 18363), (132, 18516),

Gene: NosilaM_38 Start: 21997, Stop: 22680, Start Num: 14

Candidate Starts for NosilaM_38:

(Start: 14 @21997 has 92 MA's), (56, 22198), (61, 22246), (77, 22330), (99, 22429), (113, 22486), (124, 22555), (143, 22645),

Gene: NovumRegina_35 Start: 21776, Stop: 22459, Start Num: 14

Candidate Starts for NovumRegina_35:

(Start: 14 @21776 has 92 MA's), (20, 21794), (43, 21887), (55, 21974), (56, 21977), (77, 22109), (99, 22208), (113, 22265), (124, 22334), (130, 22364), (134, 22385), (143, 22424),

Gene: ObLaDi_13 Start: 8905, Stop: 9573, Start Num: 13

Candidate Starts for ObLaDi_13:

(Start: 13 @8905 has 5 MA's), (93, 9307), (113, 9388), (121, 9445), (137, 9526), (143, 9547),

Gene: Obliviate_13 Start: 8445, Stop: 9086, Start Num: 19

Candidate Starts for Obliviate_13:

(Start: 19 @8445 has 2 MA's), (Start: 21 @8448 has 39 MA's), (44, 8538), (45, 8553), (55, 8619), (68, 8706), (82, 8781), (88, 8805), (103, 8853), (115, 8910), (120, 8949), (136, 9033), (144, 9069),

Gene: OneUp_36 Start: 15613, Stop: 16278, Start Num: 14

Candidate Starts for OneUp_36:

(8, 15595), (Start: 14 @15613 has 92 MA's), (59, 15844), (69, 15904), (71, 15913), (95, 16030),

Gene: Outis_36 Start: 22001, Stop: 22684, Start Num: 14

Candidate Starts for Outis_36:

(Start: 14 @22001 has 92 MA's), (56, 22202), (77, 22334), (99, 22433), (102, 22442), (113, 22490), (124, 22559), (143, 22649),

Gene: P1201_38 Start: 22813, Stop: 23490, Start Num: 14

Candidate Starts for P1201_38:

(Start: 14 @22813 has 92 MA's), (42, 22921), (46, 22942), (55, 22999), (63, 23065), (71, 23101), (90, 23188), (113, 23287), (124, 23356), (143, 23446),

Gene: PCoral7_14 Start: 8656, Stop: 9306, Start Num: 21

Candidate Starts for PCoral7_14:

(Start: 10 @8626 has 1 MA's), (Start: 19 @8653 has 2 MA's), (Start: 21 @8656 has 39 MA's), (44, 8746), (45, 8761), (60, 8863), (67, 8911), (82, 8989), (88, 9013), (97, 9043), (103, 9061), (120, 9157), (136, 9241),

Gene: PSonyx_12 Start: 8868, Stop: 9539, Start Num: 14

Candidate Starts for PSonyx_12:

(Start: 14 @8868 has 92 MA's), (50, 9039), (55, 9072), (57, 9090), (60, 9108), (68, 9159), (69, 9165), (72, 9177), (81, 9234), (86, 9252), (87, 9261), (95, 9285), (99, 9300), (124, 9426), (127, 9441),

Gene: Patio_38 Start: 22247, Stop: 22930, Start Num: 14

Candidate Starts for Patio_38:

(Start: 14 @22247 has 92 MA's), (56, 22448), (77, 22580), (82, 22607), (99, 22679), (113, 22736), (124, 22805), (134, 22856), (143, 22895),

Gene: PeteyPab_22 Start: 15926, Stop: 16588, Start Num: 14

Candidate Starts for PeteyPab_22:

(Start: 14 @15926 has 92 MA's), (20, 15944), (35, 16007), (37, 16013), (77, 16247), (99, 16343), (113, 16400), (115, 16415), (143, 16559),

Gene: Petra_16 Start: 9059, Stop: 9697, Start Num: 21

Candidate Starts for Petra_16:

(Start: 19 @9056 has 2 MA's), (Start: 21 @9059 has 39 MA's), (44, 9149), (45, 9164), (55, 9230), (68, 9317), (82, 9392), (88, 9416), (103, 9464), (115, 9521), (120, 9560), (136, 9644), (144, 9680),

Gene: PhinkBoden_42 Start: 18297, Stop: 18962, Start Num: 14

Candidate Starts for PhinkBoden_42:

(Start: 14 @18297 has 92 MA's), (38, 18387), (104, 18744), (132, 18897),

Gene: Phomeo_34 Start: 22069, Stop: 22752, Start Num: 14

Candidate Starts for Phomeo_34:

(Start: 14 @22069 has 92 MA's), (20, 22087), (43, 22180), (55, 22267), (56, 22270), (77, 22402), (99, 22501), (113, 22558), (124, 22627), (130, 22657), (134, 22678), (143, 22717),

Gene: PhrostedPhlake_15 Start: 9037, Stop: 9675, Start Num: 21

Candidate Starts for PhrostedPhlake_15:

(Start: 19 @9034 has 2 MA's), (Start: 21 @9037 has 39 MA's), (44, 9127), (45, 9142), (55, 9208), (68, 9295), (82, 9370), (88, 9394), (103, 9442), (115, 9499), (120, 9538), (136, 9622), (144, 9658),

Gene: Pipp_14 Start: 8651, Stop: 9292, Start Num: 19

Candidate Starts for Pipp_14:

(Start: 19 @8651 has 2 MA's), (Start: 21 @8654 has 39 MA's), (44, 8744), (45, 8759), (82, 8987), (88, 9011), (103, 9059), (115, 9116), (120, 9155), (136, 9239), (144, 9275),

Gene: Pleakley_44 Start: 22073, Stop: 22756, Start Num: 14

Candidate Starts for Pleakley_44:

(Start: 14 @22073 has 92 MA's), (56, 22274), (67, 22355), (76, 22400), (77, 22406), (78, 22418), (99, 22505), (113, 22562), (124, 22631), (134, 22682), (140, 22712), (143, 22721),

Gene: Poise_45 Start: 18361, Stop: 19026, Start Num: 12

Candidate Starts for Poise_45:

(Start: 12 @18361 has 16 MA's), (30, 18427), (52, 18520), (55, 18547), (67, 18631), (80, 18703), (114, 18850), (115, 18856), (119, 18883), (120, 18895),

Gene: Polyzuki_39 Start: 23240, Stop: 23908, Start Num: 14

Candidate Starts for Polyzuki_39:

(Start: 14 @23240 has 92 MA's), (35, 23321), (46, 23378), (59, 23462), (77, 23564), (78, 23576), (99, 23663), (113, 23720), (124, 23789), (125, 23795), (128, 23807), (142, 23873), (143, 23879),

Gene: Popper_14 Start: 8768, Stop: 9433, Start Num: 14

Candidate Starts for Popper_14:

(Start: 14 @8768 has 92 MA's), (59, 8990), (66, 9038), (69, 9050), (70, 9056), (75, 9086), (94, 9176), (109, 9239), (115, 9266), (132, 9362),

Gene: PotatoChip_23 Start: 15928, Stop: 16590, Start Num: 14

Candidate Starts for PotatoChip_23:

(Start: 14 @15928 has 92 MA's), (20, 15946), (35, 16009), (37, 16015), (77, 16249), (99, 16345), (113, 16402), (115, 16417), (143, 16561),

Gene: PrincePatrick_14 Start: 8714, Stop: 9367, Start Num: 21

Candidate Starts for PrincePatrick_14:

(Start: 10 @8684 has 1 MA's), (Start: 19 @8711 has 2 MA's), (Start: 21 @8714 has 39 MA's), (44, 8804), (45, 8819), (60, 8921), (67, 8969), (82, 9047), (88, 9071), (97, 9101), (103, 9119), (120, 9215), (136, 9299),

Gene: Pringar_45 Start: 18673, Stop: 19338, Start Num: 12

Candidate Starts for Pringar_45:

(Start: 12 @18673 has 16 MA's), (30, 18739), (52, 18832), (55, 18859), (67, 18943), (80, 19015), (114, 19162), (115, 19168), (119, 19195), (120, 19207),

Gene: QuinnAvery_15 Start: 9252, Stop: 9920, Start Num: 14

Candidate Starts for QuinnAvery_15:

(Start: 14 @9252 has 92 MA's), (70, 9540), (94, 9660), (121, 9792), (132, 9846),

Gene: Raela_45 Start: 18916, Stop: 19581, Start Num: 12

Candidate Starts for Raela_45:

(Start: 12 @18916 has 16 MA's), (30, 18982), (52, 19075), (55, 19102), (67, 19186), (80, 19258), (114, 19405), (115, 19411), (119, 19438), (120, 19450),

Gene: Raqqa_13 Start: 8165, Stop: 8830, Start Num: 14

Candidate Starts for Raqqa_13:

(Start: 14 @8165 has 92 MA's), (32, 8240), (37, 8258), (46, 8300), (57, 8372), (59, 8387), (70, 8453), (73, 8462), (75, 8483), (101, 8597), (114, 8657),

Gene: RedRaider77_45 Start: 18817, Stop: 19482, Start Num: 12

Candidate Starts for RedRaider77_45:

(Start: 12 @18817 has 16 MA's), (30, 18883), (52, 18976), (55, 19003), (67, 19087), (80, 19159), (114, 19306), (115, 19312), (119, 19339), (120, 19351),

Gene: Ryan_16 Start: 9383, Stop: 10051, Start Num: 14

Candidate Starts for Ryan_16:

(Start: 14 @9383 has 92 MA's), (59, 9605), (70, 9671), (94, 9791), (121, 9923), (132, 9977),

Gene: SPB78_13 Start: 8500, Stop: 9165, Start Num: 11

Candidate Starts for SPB78_13:

(Start: 11 @8500 has 1 MA's), (18, 8518), (28, 8566), (30, 8575), (50, 8659), (58, 8713), (67, 8773), (111, 8977), (124, 9055),

Gene: Samba_14 Start: 8787, Stop: 9425, Start Num: 21

Candidate Starts for Samba_14:

(Start: 19 @8784 has 2 MA's), (Start: 21 @8787 has 39 MA's), (44, 8877), (45, 8892), (82, 9120), (88, 9144), (103, 9192), (115, 9249), (120, 9288), (136, 9372), (144, 9408),

Gene: Samy_17 Start: 9940, Stop: 10539, Start Num: 24

Candidate Starts for Samy_17:

(17, 9904), (Start: 24 @9940 has 1 MA's), (30, 9964), (41, 10006), (64, 10156), (113, 10366), (121, 10423), (123, 10429), (124, 10435), (125, 10441), (133, 10477), (139, 10510),

Gene: Sarge_12 Start: 7918, Stop: 8571, Start Num: 14

Candidate Starts for Sarge_12:

(Start: 14 @7918 has 92 MA's), (29, 7978), (53, 8083), (65, 8179), (67, 8188), (72, 8209), (76, 8233), (82, 8266), (141, 8545),

Gene: Schmidt_15 Start: 9115, Stop: 9729, Start Num: 26

Candidate Starts for Schmidt_15:

(4, 8911), (Start: 26 @9115 has 11 MA's), (40, 9166), (43, 9181), (45, 9199), (50, 9223), (60, 9289), (67, 9337), (84, 9421), (98, 9487), (106, 9511),

Gene: Shoya_11 Start: 7554, Stop: 8207, Start Num: 14

Candidate Starts for Shoya_11:

(Start: 14 @7554 has 92 MA's), (29, 7614), (53, 7719), (65, 7815), (67, 7824), (72, 7845), (76, 7869), (82, 7902), (141, 8181),

Gene: Skysand_37 Start: 22464, Stop: 23147, Start Num: 14

Candidate Starts for Skysand_37:

(Start: 14 @22464 has 92 MA's), (56, 22665), (77, 22797), (82, 22824), (99, 22896), (113, 22953), (124, 23022), (134, 23073), (143, 23112),

Gene: Smoothie_43 Start: 17914, Stop: 18579, Start Num: 14
Candidate Starts for Smoothie_43:
(Start: 14 @17914 has 92 MA's), (38, 18004), (104, 18361), (132, 18514),

Gene: Sparky_11 Start: 8045, Stop: 8707, Start Num: 16
Candidate Starts for Sparky_11:
(Start: 16 @8045 has 2 MA's), (23, 8066), (51, 8195), (57, 8243), (62, 8285), (68, 8312), (71, 8327),
(100, 8459), (115, 8528), (143, 8678),

Gene: SpeedDemon_250 Start: 15649, Stop: 16305, Start Num: 14
Candidate Starts for SpeedDemon_250:
(5, 15592), (Start: 14 @15649 has 92 MA's), (27, 15700), (31, 15715), (82, 15994),

Gene: Splinter_17 Start: 10694, Stop: 11284, Start Num: 26
Candidate Starts for Splinter_17:
(Start: 26 @10694 has 11 MA's), (34, 10727), (43, 10760), (45, 10778), (58, 10856), (105, 11090),
(106, 11093), (112, 11120), (124, 11192),

Gene: StarStruck_36 Start: 22001, Stop: 22684, Start Num: 14
Candidate Starts for StarStruck_36:
(Start: 14 @22001 has 92 MA's), (56, 22202), (77, 22334), (99, 22433), (102, 22442), (113, 22490),
(124, 22559), (143, 22649),

Gene: Stickynote_25 Start: 16738, Stop: 17400, Start Num: 14
Candidate Starts for Stickynote_25:
(Start: 14 @16738 has 92 MA's), (20, 16756), (35, 16819), (37, 16825), (77, 17059), (99, 17155), (113,
17212), (115, 17227), (143, 17371),

Gene: Sukkupi_37 Start: 21116, Stop: 21796, Start Num: 14
Candidate Starts for Sukkupi_37:
(Start: 14 @21116 has 92 MA's), (55, 21311), (67, 21395), (77, 21446), (99, 21545), (113, 21602),
(124, 21671), (134, 21722), (143, 21761),

Gene: SuperSulley_36 Start: 22185, Stop: 22868, Start Num: 14
Candidate Starts for SuperSulley_36:
(Start: 14 @22185 has 92 MA's), (56, 22386), (77, 22518), (99, 22617), (102, 22626), (113, 22674),
(124, 22743), (143, 22833),

Gene: TZGordon_19 Start: 10836, Stop: 11426, Start Num: 26
Candidate Starts for TZGordon_19:
(Start: 26 @10836 has 11 MA's), (34, 10869), (43, 10902), (45, 10920), (78, 11121), (105, 11232),
(106, 11235), (112, 11262), (124, 11334),

Gene: Tesla_44 Start: 18666, Stop: 19331, Start Num: 12
Candidate Starts for Tesla_44:
(Start: 12 @18666 has 16 MA's), (30, 18732), (52, 18825), (55, 18852), (67, 18936), (80, 19008), (114,
19155), (115, 19161), (119, 19188), (120, 19200),

Gene: TinaLin_20 Start: 11401, Stop: 11997, Start Num: 26
Candidate Starts for TinaLin_20:
(Start: 26 @11401 has 11 MA's), (45, 11485), (50, 11509), (58, 11563), (78, 11686), (105, 11797),
(106, 11800), (107, 11809), (112, 11827), (117, 11866), (128, 11917),

Gene: Toast_14 Start: 8626, Stop: 9306, Start Num: 10

Candidate Starts for Toast_14:

(Start: 10 @8626 has 1 MA's), (Start: 19 @8653 has 2 MA's), (Start: 21 @8656 has 39 MA's), (44, 8746), (45, 8761), (60, 8863), (67, 8911), (82, 8989), (88, 9013), (97, 9043), (103, 9061), (120, 9157), (136, 9241),

Gene: Toniann_42 Start: 17859, Stop: 18524, Start Num: 14

Candidate Starts for Toniann_42:

(Start: 14 @17859 has 92 MA's), (38, 17949), (104, 18306), (132, 18459),

Gene: Tracker_35 Start: 21197, Stop: 21880, Start Num: 14

Candidate Starts for Tracker_35:

(Start: 14 @21197 has 92 MA's), (20, 21215), (43, 21308), (55, 21395), (56, 21398), (77, 21530), (99, 21629), (113, 21686), (124, 21755), (130, 21785), (134, 21806), (143, 21845),

Gene: Turuncu_39 Start: 22468, Stop: 23151, Start Num: 14

Candidate Starts for Turuncu_39:

(Start: 14 @22468 has 92 MA's), (56, 22669), (77, 22801), (99, 22900), (108, 22939), (113, 22957), (124, 23026), (134, 23077), (143, 23116),

Gene: UmaThurman_14 Start: 8786, Stop: 9424, Start Num: 21

Candidate Starts for UmaThurman_14:

(Start: 19 @8783 has 2 MA's), (Start: 21 @8786 has 39 MA's), (44, 8876), (45, 8891), (68, 9044), (82, 9119), (88, 9143), (103, 9191), (115, 9248), (120, 9287), (136, 9371), (144, 9407),

Gene: Utz_14 Start: 8653, Stop: 9291, Start Num: 21

Candidate Starts for Utz_14:

(Start: 19 @8650 has 2 MA's), (Start: 21 @8653 has 39 MA's), (44, 8743), (45, 8758), (68, 8911), (82, 8986), (88, 9010), (103, 9058), (115, 9115), (120, 9154), (136, 9238), (144, 9274),

Gene: VanLee_14 Start: 8706, Stop: 9605, Start Num: 13

Candidate Starts for VanLee_14:

(Start: 13 @8706 has 5 MA's), (36, 8796), (46, 8841), (48, 8850), (113, 9183), (146, 9357), (148, 9480), (149, 9573),

Gene: VasuNzinga_45 Start: 18250, Stop: 18915, Start Num: 12

Candidate Starts for VasuNzinga_45:

(Start: 12 @18250 has 16 MA's), (30, 18316), (52, 18409), (55, 18436), (67, 18520), (80, 18592), (114, 18739), (115, 18745), (119, 18772), (120, 18784),

Gene: Vendetta_17 Start: 10694, Stop: 11284, Start Num: 26

Candidate Starts for Vendetta_17:

(Start: 26 @10694 has 11 MA's), (34, 10727), (43, 10760), (45, 10778), (58, 10856), (105, 11090), (106, 11093), (112, 11120), (124, 11192),

Gene: Walrus_15 Start: 8881, Stop: 9519, Start Num: 21

Candidate Starts for Walrus_15:

(Start: 19 @8878 has 2 MA's), (Start: 21 @8881 has 39 MA's), (44, 8971), (45, 8986), (55, 9052), (68, 9139), (82, 9214), (88, 9238), (103, 9286), (115, 9343), (120, 9382), (136, 9466), (144, 9502),

Gene: Wheezy_35 Start: 21402, Stop: 22085, Start Num: 14

Candidate Starts for Wheezy_35:

(Start: 14 @21402 has 92 MA's), (20, 21420), (43, 21513), (55, 21600), (56, 21603), (77, 21735), (99, 21834), (113, 21891), (124, 21960), (130, 21990), (134, 22011), (143, 22050),

Gene: WhoseManz_37 Start: 19168, Stop: 19848, Start Num: 14

Candidate Starts for WhoseManz_37:

(Start: 14 @19168 has 92 MA's), (55, 19363), (67, 19447), (77, 19498), (82, 19525), (99, 19597), (113, 19654), (124, 19723), (134, 19774), (143, 19813),

Gene: William_14 Start: 8602, Stop: 9252, Start Num: 21

Candidate Starts for William_14:

(Start: 10 @8572 has 1 MA's), (Start: 19 @8599 has 2 MA's), (Start: 21 @8602 has 39 MA's), (44, 8692), (45, 8707), (60, 8809), (67, 8857), (82, 8935), (88, 8959), (97, 8989), (103, 9007), (120, 9103), (136, 9187),

Gene: WilliamBoone_42 Start: 17223, Stop: 17888, Start Num: 14

Candidate Starts for WilliamBoone_42:

(Start: 14 @17223 has 92 MA's), (71, 17523), (82, 17583), (104, 17670),

Gene: Wisp_13 Start: 8419, Stop: 9057, Start Num: 21

Candidate Starts for Wisp_13:

(Start: 19 @8416 has 2 MA's), (Start: 21 @8419 has 39 MA's), (44, 8509), (45, 8524), (55, 8590), (68, 8677), (82, 8752), (88, 8776), (103, 8824), (115, 8881), (120, 8920), (136, 9004), (144, 9040),

Gene: Wocket_15 Start: 8904, Stop: 9542, Start Num: 21

Candidate Starts for Wocket_15:

(Start: 19 @8901 has 2 MA's), (Start: 21 @8904 has 39 MA's), (44, 8994), (45, 9009), (55, 9075), (74, 9195), (82, 9237), (88, 9261), (103, 9309), (120, 9405), (136, 9489), (144, 9525),

Gene: Yndexa_37 Start: 21116, Stop: 21796, Start Num: 14

Candidate Starts for Yndexa_37:

(Start: 14 @21116 has 92 MA's), (55, 21311), (67, 21395), (77, 21446), (99, 21545), (113, 21602), (124, 21671), (134, 21722), (143, 21761),

Gene: Yvonnetastic_39 Start: 19249, Stop: 19914, Start Num: 14

Candidate Starts for Yvonnetastic_39:

(Start: 14 @19249 has 92 MA's), (39, 19342), (52, 19411), (82, 19600), (89, 19627), (128, 19816),

Gene: Zaheer_16 Start: 9472, Stop: 10140, Start Num: 14

Candidate Starts for Zaheer_16:

(Start: 14 @9472 has 92 MA's), (30, 9541), (59, 9694), (70, 9760), (94, 9880), (132, 10066),

Gene: Zarbodnamra_14 Start: 8678, Stop: 9316, Start Num: 21

Candidate Starts for Zarbodnamra_14:

(Start: 19 @8675 has 2 MA's), (Start: 21 @8678 has 39 MA's), (44, 8768), (45, 8783), (68, 8936), (82, 9011), (88, 9035), (103, 9083), (115, 9140), (120, 9179), (136, 9263), (144, 9299),

Gene: ZiggyZoo_13 Start: 8448, Stop: 9086, Start Num: 21

Candidate Starts for ZiggyZoo_13:

(Start: 19 @8445 has 2 MA's), (Start: 21 @8448 has 39 MA's), (44, 8538), (45, 8553), (55, 8619), (68, 8706), (82, 8781), (88, 8805), (103, 8853), (115, 8910), (120, 8949), (136, 9033), (144, 9069),

Gene: Zion_23 Start: 15926, Stop: 16588, Start Num: 14

Candidate Starts for Zion_23:

(Start: 14 @15926 has 92 MA's), (20, 15944), (35, 16007), (37, 16013), (77, 16247), (99, 16343), (113, 16400), (115, 16415), (143, 16559),

Gene: Zucker_14 Start: 8546, Stop: 9211, Start Num: 14

Candidate Starts for Zucker_14:

(Start: 14 @8546 has 92 MA's), (Start: 24 @8591 has 1 MA's), (32, 8621), (53, 8714), (54, 8717), (58, 8756), (65, 8807), (90, 8927), (132, 9137), (138, 9167),