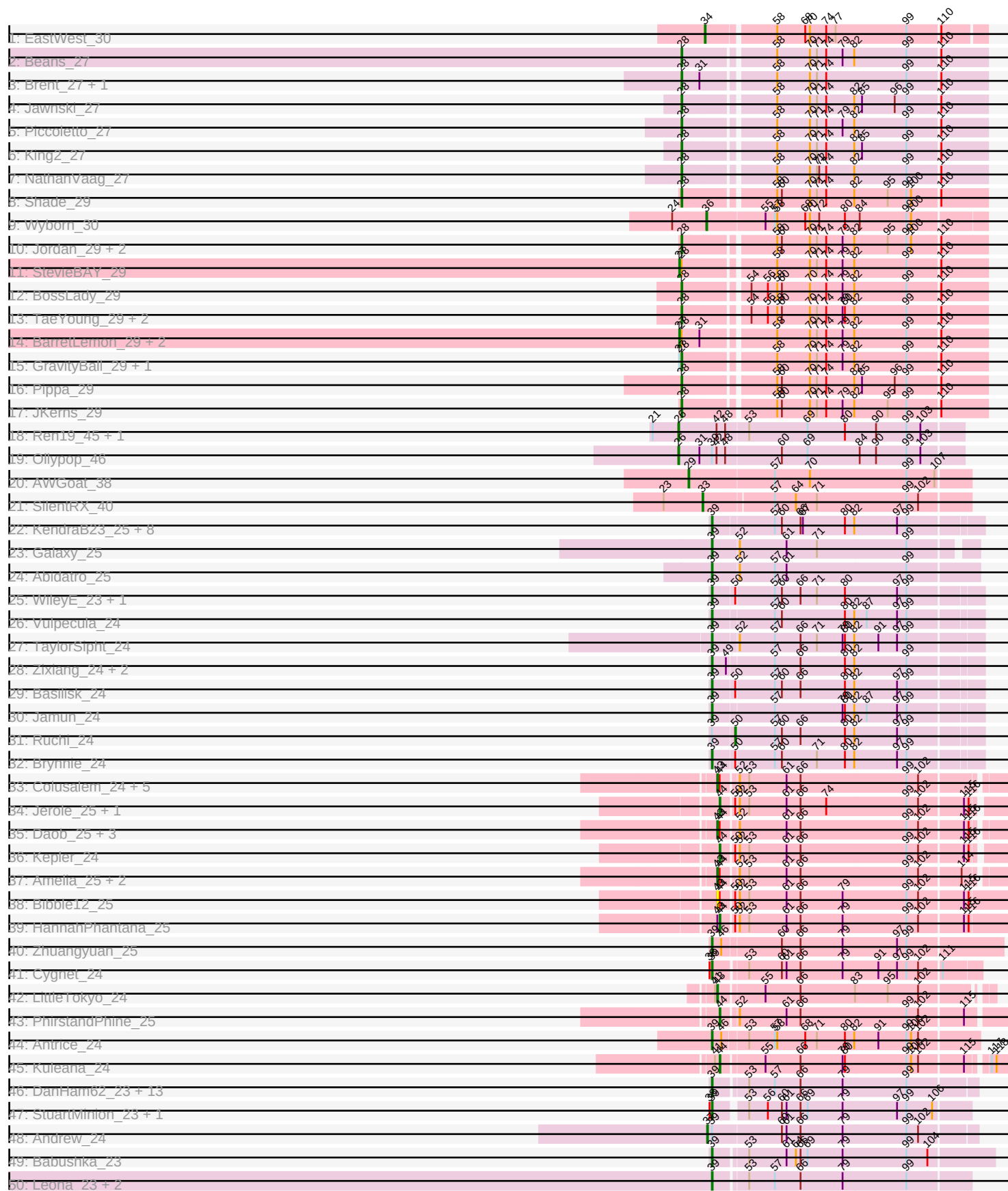
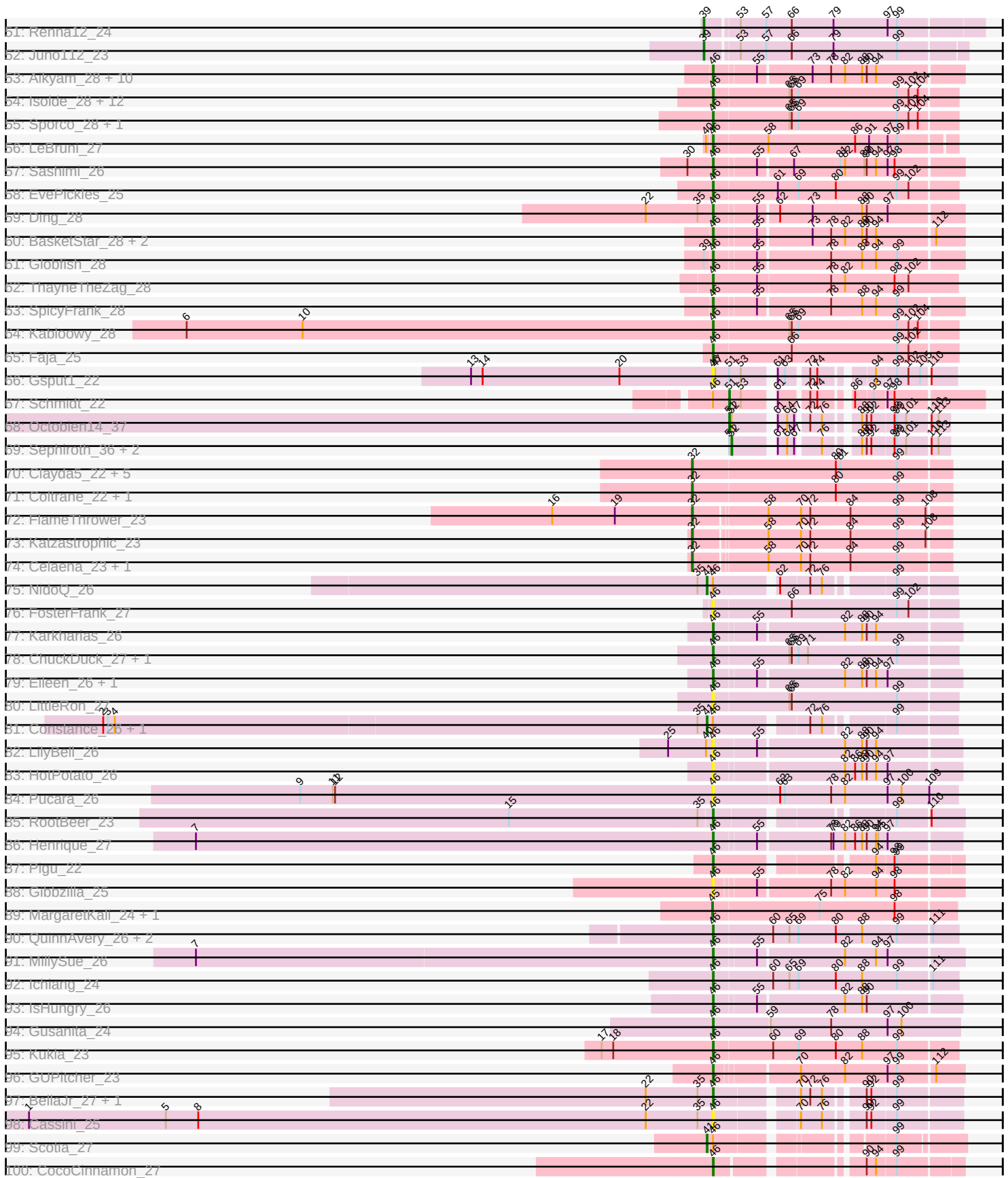
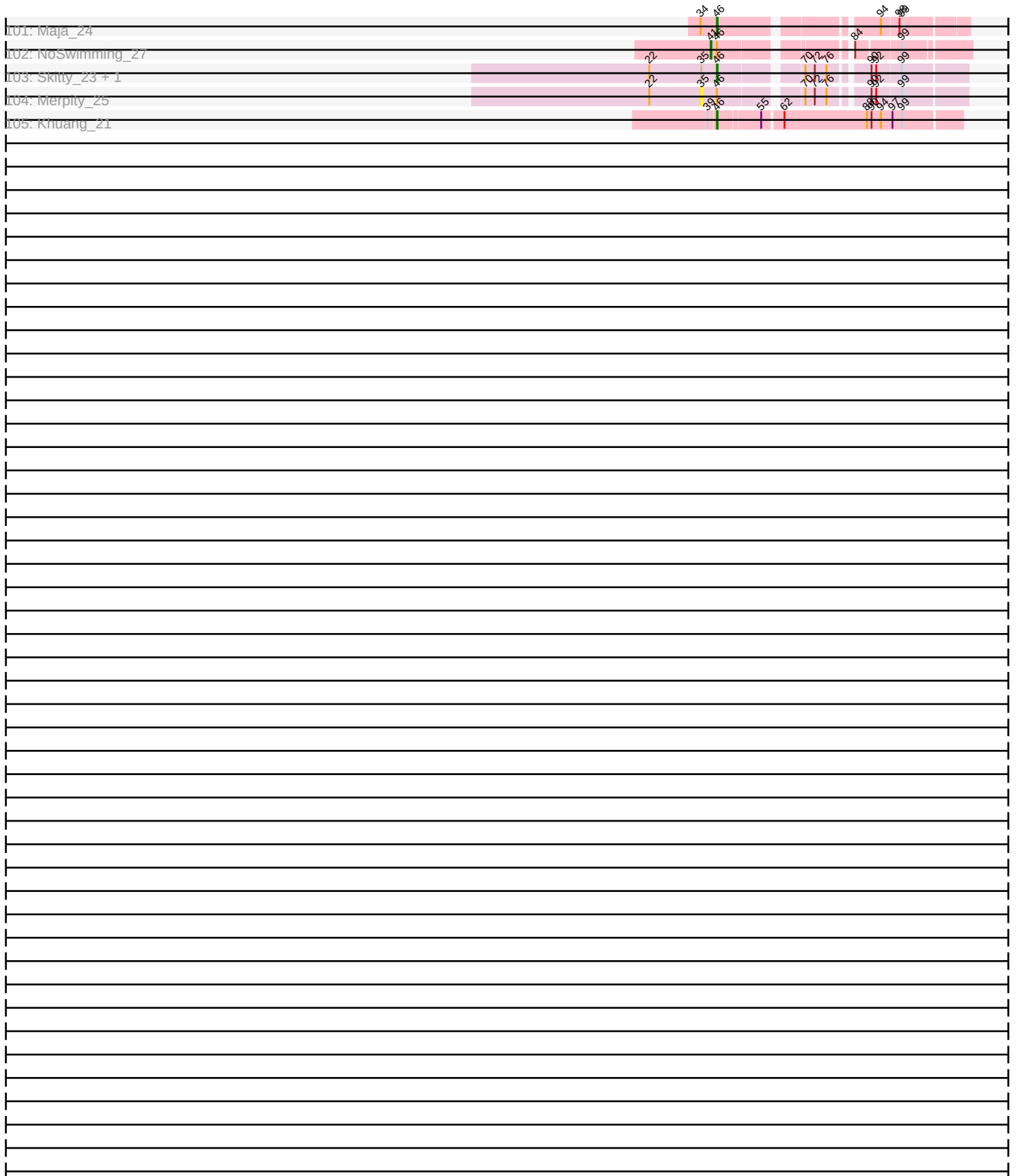






Pham 330506



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 330506 Report

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

Pham number 330506 has 194 members, 30 are drafts.

Phages represented in each track:

- Track 1 : EastWest_30
- Track 2 : Beans_27
- Track 3 : Brent_27, Franzy_27
- Track 4 : Jawnski_27
- Track 5 : Piccoletto_27
- Track 6 : King2_27
- Track 7 : NathanVaag_27
- Track 8 : Shade_29
- Track 9 : Wyborn_30
- Track 10 : Jordan_29, Zartrosa_29, Sonny_29
- Track 11 : StevieBAY_29
- Track 12 : BossLady_29
- Track 13 : TaeYoung_29, Martha_29, Grekaycon_29
- Track 14 : BarretLemon_29, Timinator_29, LeeroyJ_29
- Track 15 : GravityBall_29, BigDome_29
- Track 16 : Pippa_29
- Track 17 : JKerns_29
- Track 18 : Ren19_45, Nikan_46
- Track 19 : Ollypop_46
- Track 20 : AWGoat_38
- Track 21 : SilentRX_40
- Track 22 : KendraB23_25, Amanises_25, Toad24_25, Pelletreau_25, Orcanus_24, Westrich_25, Gravel_25, Shen_25, Eesa_24
- Track 23 : Galaxy_25
- Track 24 : Abidatro_25
- Track 25 : WileyE_23, Chickaboom_23
- Track 26 : Vulpecula_24
- Track 27 : TaylorSipht_24
- Track 28 : Zixiang_24, Niblet_24, Chicken_24
- Track 29 : Basilisk_24
- Track 30 : Jamun_24
- Track 31 : Ruchi_24
- Track 32 : Brynnie_24
- Track 33 : Colusalem_24, Pineda_25, Bedetta_25, Damocles_25, OtsoOtso_24, Polka_24
- Track 34 : Jerole_25, GramZayde_24
- Track 35 : Daob_25, Melons_25, Cote_25, Lunar_25

- Track 36 : Kepler_24
- Track 37 : Amelia_25, Coral_24, BadWillHunting_25
- Track 38 : Bibble12_25
- Track 39 : HannahPhantana_25
- Track 40 : Zhuangyuan_25
- Track 41 : Cygnet_24
- Track 42 : LittleTokyo_24
- Track 43 : PhirstandPhine_25
- Track 44 : Antrice_24
- Track 45 : Kuleana_24
- Track 46 : DanHam62_23, AdoptaAdorbs_23, Atlantica_23, Oppalora_23, AmiCi24_23, HamCheese_23, Camara_23, Glotell_23, Laphuphu24k_22, Fingolfin_23, KHumphrey_23, PhluffyCoco_23, Amphitrite_23, RedFox_23
- Track 47 : StuartMinion_23, AlexMinion_23
- Track 48 : Andrew_24
- Track 49 : Babushka_23
- Track 50 : Leona_23, Rattail_23, Azaz_23
- Track 51 : Renna12_24
- Track 52 : Juno112_23
- Track 53 : Aikyam_28, CookieBear_28, RadFad_28, Richie_28, Auxilium_28, Hillester_28, YoungHarleezy_28, Lasker_28, MidnightRain_28, MaterMagnus_28, BenchScraper_28
- Track 54 : Isolde_28, Vopal_29, Phrank15_27, MUWow_27, Mapleville_27, JellyBread_28, Sakai_28, NewKitty_29, BillyTP_28, SonDevVon_27, Lawnathon_28, Gorpy_28, AdaS_28
- Track 55 : Sporco_28, Raphaella_28
- Track 56 : LeBruni_27
- Track 57 : Sashimi_26
- Track 58 : EvePickles_25
- Track 59 : Ding_28
- Track 60 : BasketStar_28, BlueShadow_28, Windest_29
- Track 61 : Globfish_28
- Track 62 : ThayneTheZag_28
- Track 63 : SpicyFrank_28
- Track 64 : Kabloowy_28
- Track 65 : Faja_25
- Track 66 : Gspu1_22
- Track 67 : Schmidt_22
- Track 68 : Octobien14_37
- Track 69 : Sephiroth_36, Syleon_36, Kudfre_35
- Track 70 : Clayda5_22, Skylord_22, Rollins_22, Armstrong_22, Bernstein_22, Vitas_22
- Track 71 : Coltrane_22, Brahms_22
- Track 72 : FlameThrower_23
- Track 73 : Katzastrophic_23
- Track 74 : Celaena_23, Bachaco_23
- Track 75 : NidoQ_26
- Track 76 : FosterFrank_27
- Track 77 : Karkharias_26
- Track 78 : ChuckDuck_27, KayMoney_27
- Track 79 : Eileen_26, Peas_26
- Track 80 : LittleRon_27
- Track 81 : Constance_26, PeggyLeg03_26

- Track 82 : LilyBell_26
- Track 83 : HotPotato_26
- Track 84 : Pucara_26
- Track 85 : RootBeer_23
- Track 86 : Henrique_27
- Track 87 : Pigu_22
- Track 88 : Gibbzilla_25
- Track 89 : MargaretKali_24, Kumotta_24
- Track 90 : QuinnAvery_26, BigSherm_26, Halloweekend_24
- Track 91 : MillySue_26
- Track 92 : Ichiang_24
- Track 93 : IsHungry_26
- Track 94 : Gusanita_24
- Track 95 : Kukla_23
- Track 96 : GUPitcher_23
- Track 97 : BellaJr_27, BlackSpider_25
- Track 98 : Cassini_25
- Track 99 : Scotia_27
- Track 100 : CocoCinnamon_27
- Track 101 : Maja_24
- Track 102 : NoSwimming_27
- Track 103 : Skitty_23, MrSmee_23
- Track 104 : Merpity_25
- Track 105 : Khuang_21

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

The start number called the most often in the published annotations is 46, it was called in 56 of the 164 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AdaS_28, Aikyam_28, Auxilium_28, BasketStar_28, BellaJr_27, BenchScraper_28, BigSherm_26, BillyTP_28, BlackSpider_25, BlueShadow_28, Cassini_25, ChuckDuck_27, CocoCinnamon_27, CookieBear_28, Ding_28, Eileen_26, EvePickles_25, Faja_25, FosterFrank_27, GUPitcher_23, Gibbzilla_25, Globfish_28, Gorpy_28, Gsput1_22, Gusanita_24, Halloweekend_24, Henrique_27, Hillester_28, HotPotato_26, Ichiang_24, IsHungry_26, Isolde_28, JellyBread_28, Kabloowy_28, Karkharias_26, KayMoney_27, Khuang_21, Kukla_23, Lasker_28, Lawnathon_28, LeBruni_27, LilyBell_26, LittleRon_27, MUWow_27, Maja_24, Mapleville_27, MaterMagnus_28, MidnightRain_28, MillySue_26, MrSmee_23, NewKitty_29, Peas_26, Phrank15_27, Pigu_22, Pucara_26, QuinnAvery_26, RadFad_28, Raphaella_28, Richie_28, RootBeer_23, Sakai_28, Sashimi_26, Skitty_23, SonDevVon_27, SpicyFrank_28, Sporco_28, ThayneTheZag_28, Vopal_29, Windest_29, YoungHarleezy_28,

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

• Antrice_24, Constance_26, Merpity_25, NidoQ_26, NoSwimming_27, PeggyLeg03_26, Schmidt_22, Scotia_27, Zhuangyuan_25,

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

- AWGoat_38, Abidatro_25, AdoptaAdorbs_23, AlexMinion_23, Amanises_25, Amelia_25, AmiCi24_23, Amphitrite_23, Andrew_24, Armstrong_22, Atlantica_23, Azaz_23, Babushka_23, Bachaco_23, BadWillHunting_25, BarretLemon_29, Basilisk_24, Beans_27, Bedetta_25, Bernstein_22, Bibble12_25, BigDome_29, BossLady_29, Brahms_22, Brent_27, Brynnie_24, Camara_23, Celaena_23, Chickaboom_23, Chicken_24, Clayda5_22, Coltrane_22, Colusalem_24, Coral_24, Cote_25, Cygnet_24, Damocles_25, DanHam62_23, Daob_25, EastWest_30, Eesa_24, Fingolfin_23, FlameThrower_23, Franzy_27, Galaxy_25, Glotell_23, GramZayde_24, Gravel_25, GravityBall_29, Grekaycon_29, HamCheese_23, HannahPhantana_25, JKerns_29, Jamun_24, Jawnski_27, Jerole_25, Jordan_29, Juno112_23, KHumphrey_23, Katzastrophic_23, KendraB23_25, Kepler_24, King2_27, Kudefre_35, Kuleana_24, Kumotta_24, Laphuphu24k_22, LeeroyJ_29, Leona_23, LittleTokyo_24, Lunar_25, MargaretKali_24, Martha_29, Melons_25, NathanVaag_27, Niblet_24, Nikan_46, Octobien14_37, Ollypop_46, Oppalora_23, Orcanus_24, OtsoOtso_24, Pelletreau_25, PhirstandPhine_25, PhluffyCoco_23, Piccoletto_27, Pineda_25, Pippa_29, Polka_24, Rattail_23, RedFox_23, Ren19_45, Renna12_24, Rollins_22, Ruchi_24, Sephiroth_36, Shade_29, Shen_25, SilentRX_40, Skylord_22, Sonny_29, StevieBAY_29, StuartMinion_23, Syleon_36, TaeYoung_29, TaylorSipht_24, Timinator_29, Toad24_25, Vitas_22, Vulpecula_24, Westrich_25, WileyE_23, Wyborn_30, Zartrosa_29, Zixiang_24,

Summary by start number:

Start 26:

- Found in 3 of 194 (1.5%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nikan_46 (AP2), Ollypop_46 (AP2), Ren19_45 (AP2),

Start 27:

- Found in 6 of 194 (3.1%) of genes in pham
- Manual Annotations of this start: 4 of 164
- Called 66.7% of time when present
- Phage (with cluster) where this start called: BarretLemon_29 (AO2), LeeroyJ_29 (AO2), StevieBAY_29 (AO2), Timinator_29 (AO2),

Start 28:

- Found in 23 of 194 (11.9%) of genes in pham
- Manual Annotations of this start: 19 of 164
- Called 82.6% of time when present
- Phage (with cluster) where this start called: Beans_27 (AO1), BigDome_29 (AO2), BossLady_29 (AO2), Brent_27 (AO1), Franzy_27 (AO1), GravityBall_29 (AO2), Grekaycon_29 (AO2), JKerns_29 (AO2), Jawnski_27 (AO1), Jordan_29 (AO2), King2_27 (AO1), Martha_29 (AO2), NathanVaag_27 (AO1), Piccoletto_27 (AO1), Pippa_29 (AO2), Shade_29 (AO2), Sonny_29 (AO2), TaeYoung_29 (AO2), Zartrosa_29 (AO2),

Start 29:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_38 (AP4),

Start 32:

- Found in 12 of 194 (6.2%) of genes in pham
- Manual Annotations of this start: 12 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong_22 (EB), Bachaco_23 (EB), Bernstein_22 (EB), Brahms_22 (EB), Celaena_23 (EB), Clayda5_22 (EB), Coltrane_22 (EB), FlameThrower_23 (EB), Katzastrophic_23 (EB), Rollins_22 (EB), Skylord_22 (EB), Vitas_22 (EB),

Start 33:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SilentRX_40 (AP4),

Start 34:

- Found in 2 of 194 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 50.0% of time when present
- Phage (with cluster) where this start called: EastWest_30 (AO),

Start 35:

- Found in 11 of 194 (5.7%) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Merpity_25 (FQ1),

Start 36:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wyborn_30 (AO2),

Start 37:

- Found in 1 of 194 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Andrew_24 (AS3),

Start 39:

- Found in 51 of 194 (26.3%) of genes in pham
- Manual Annotations of this start: 37 of 164
- Called 90.2% of time when present
- Phage (with cluster) where this start called: Abidatro_25 (AS1), AdoptaAdorbs_23 (AS3), AlexMinion_23 (AS3), Amanises_25 (AS1), AmCi24_23 (AS3), Amphitrite_23 (AS3), Antrice_24 (AS2), Atlantica_23 (AS3), Azaz_23 (AS3), Babushka_23 (AS3), Basilisk_24 (AS1), Brynnie_24 (AS1), Camara_23 (AS3), Chickaboom_23 (AS1), Chicken_24 (AS1), Cygnet_24 (AS2), DanHam62_23 (AS3), Eesa_24 (AS1), Fingolfin_23 (AS3), Galaxy_25 (AS1), Glotell_23 (AS3), Gravel_25 (AS1), HamCheese_23 (AS3), Jamun_24 (AS1), Juno112_23 (AS3), KHumphrey_23 (AS3), KendraB23_25 (AS1), Laphuphu24k_22 (AS3), Leona_23 (AS3), Niblet_24 (AS1), Oppalora_23 (AS3), Orcanus_24 (AS1), Pelletreau_25 (AS1), PhluffyCoco_23 (AS3),

Rattail_23 (AS3), RedFox_23 (AS3), Renna12_24 (AS3), Shen_25 (AS1), StuartMinion_23 (AS3), TaylorSipht_24 (AS1), Toad24_25 (AS1), Vulpecula_24 (AS1), Westrich_25 (AS1), WileyE_23 (AS1), Zhuangyuan_25 (AS2), Zixiang_24 (AS1),

Start 41:

- Found in 7 of 194 (3.6%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 71.4% of time when present
- Phage (with cluster) where this start called: Constance_26 (FA), NidoQ_26 (FA), NoSwimming_27 (FO), PeggyLeg03_26 (FA), Scotia_27 (FO),

Start 43:

- Found in 16 of 194 (8.2%) of genes in pham
- Manual Annotations of this start: 11 of 164
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Amelia_25 (AS2), BadWillHunting_25 (AS2), Bedetta_25 (AS2), Bibble12_25 (AS2), Colusalem_24 (AS2), Coral_24 (AS2), Cote_25 (AS2), Damocles_25 (AS2), Daob_25 (AS2), LittleTokyo_24 (AS2), Lunar_25 (AS2), Melons_25 (AS2), OtsoOtso_24 (AS2), Pineda_25 (AS2), Polka_24 (AS2),

Start 44:

- Found in 20 of 194 (10.3%) of genes in pham
- Manual Annotations of this start: 5 of 164
- Called 30.0% of time when present
- Phage (with cluster) where this start called: GramZayde_24 (AS2), HannahPhantana_25 (AS2), Jerole_25 (AS2), Kepler_24 (AS2), Kuleana_24 (AS2), PhirstandPhine_25 (AS2),

Start 45:

- Found in 2 of 194 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kumotta_24 (FB), MargaretKali_24 (FB),

Start 46:

- Found in 79 of 194 (40.7%) of genes in pham
- Manual Annotations of this start: 56 of 164
- Called 88.6% of time when present
- Phage (with cluster) where this start called: AdaS_28 (AY), Aikyam_28 (AY), Auxilium_28 (AY), BasketStar_28 (AY), BellaJr_27 (FN), BenchScraper_28 (AY), BigSherm_26 (FF), BillyTP_28 (AY), BlackSpider_25 (FN), BlueShadow_28 (AY), Cassini_25 (FN), ChuckDuck_27 (FA), CocoCinnamon_27 (FO), CookieBear_28 (AY), Ding_28 (AY), Eileen_26 (FA), EvePickles_25 (AY), Faja_25 (AY), FosterFrank_27 (FA), GUPitcher_23 (FJ), Gibbzilla_25 (FB), Globfish_28 (AY), Gorpy_28 (AY), Gspu1_22 (CU2), Gusanita_24 (FF), Halloween_24 (FF), Henrique_27 (FA), Hillester_28 (AY), HotPotato_26 (FA), Ichiang_24 (FF), IsHungry_26 (FF), Isolde_28 (AY), JellyBread_28 (AY), Kabloowy_28 (AY), Karkharias_26 (FA), KayMoney_27 (FA), Khuang_21 (FS), Kukla_23 (FJ), Lasker_28 (AY), Lawnathon_28 (AY), LeBruni_27 (AY), LilyBell_26 (FA), LittleRon_27 (FA), MUWow_27 (AY), Maja_24 (FO), Mapleville_27 (AY), MaterMagnus_28 (AY), MidnightRain_28 (AY), MillySue_26 (FF), MrSmee_23 (FQ1), NewKitty_29 (AY),

Peas_26 (FA), Phrank15_27 (AY), Pigu_22 (FB), Pucara_26 (FA), QuinnAvery_26 (FF), RadFad_28 (AY), Raphaella_28 (AY), Richie_28 (AY), RootBeer_23 (FA), Sakai_28 (AY), Sashimi_26 (AY), Skitty_23 (FQ1), SonDevVon_27 (AY), SpicyFrank_28 (AY), Sporco_28 (AY), ThayneTheZag_28 (AY), Vopal_29 (AY), Windest_29 (AY), YoungHarleezy_28 (AY),

Start 50:

- Found in 10 of 194 (5.2%) of genes in pham
- Manual Annotations of this start: 1 of 164
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Ruchi_24 (AS1),

Start 51:

- Found in 6 of 194 (3.1%) of genes in pham
- Manual Annotations of this start: 2 of 164
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Octobien14_37 (DU1), Schmidt_22 (CU4),

Start 52:

- Found in 26 of 194 (13.4%) of genes in pham
- Manual Annotations of this start: 3 of 164
- Called 11.5% of time when present
- Phage (with cluster) where this start called: Kudrefre_35 (DU1), Sephiroth_36 (DU1), Syleon_36 (DU1),

Summary by clusters:

There are 21 clusters represented in this pham: AS3, AS2, AS1, FS, AO, AO1, AP2, AP4, EB, FO, FA, FB, CU4, AO2, FF, AY, DU1, FJ, FQ1, FN, CU2,

Info for manual annotations of cluster AO:

- Start number 34 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 28 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 27 was manually annotated 4 times for cluster AO2.
- Start number 28 was manually annotated 12 times for cluster AO2.
- Start number 36 was manually annotated 1 time for cluster AO2.

Info for manual annotations of cluster AP2:

- Start number 26 was manually annotated 2 times for cluster AP2.

Info for manual annotations of cluster AP4:

- Start number 29 was manually annotated 1 time for cluster AP4.
- Start number 33 was manually annotated 1 time for cluster AP4.

Info for manual annotations of cluster AS1:

- Start number 39 was manually annotated 16 times for cluster AS1.
- Start number 50 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 39 was manually annotated 3 times for cluster AS2.
- Start number 43 was manually annotated 11 times for cluster AS2.
- Start number 44 was manually annotated 5 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 37 was manually annotated 1 time for cluster AS3.
- Start number 39 was manually annotated 18 times for cluster AS3.

Info for manual annotations of cluster AY:

- Start number 46 was manually annotated 33 times for cluster AY.

Info for manual annotations of cluster CU4:

- Start number 51 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DU1:

- Start number 51 was manually annotated 1 time for cluster DU1.
- Start number 52 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster EB:

- Start number 32 was manually annotated 12 times for cluster EB.

Info for manual annotations of cluster FA:

- Start number 41 was manually annotated 3 times for cluster FA.
- Start number 46 was manually annotated 7 times for cluster FA.

Info for manual annotations of cluster FB:

- Start number 45 was manually annotated 2 times for cluster FB.
- Start number 46 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FF:

- Start number 46 was manually annotated 7 times for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 46 was manually annotated 2 times for cluster FJ.

Info for manual annotations of cluster FN:

- Start number 46 was manually annotated 1 time for cluster FN.

Info for manual annotations of cluster FO:

- Start number 41 was manually annotated 2 times for cluster FO.
- Start number 46 was manually annotated 2 times for cluster FO.

Info for manual annotations of cluster FQ1:

- Start number 46 was manually annotated 2 times for cluster FQ1.

Info for manual annotations of cluster FS:

- Start number 46 was manually annotated 1 time for cluster FS.

Gene Information:

Gene: AWGoat_38 Start: 34355, Stop: 34708, Start Num: 29

Candidate Starts for AWGoat_38:

(Start: 29 @34355 has 1 MA's), (57, 34463), (70, 34508), (99, 34631), (107, 34667),

Gene: Abidatro_25 Start: 18908, Stop: 19243, Start Num: 39

Candidate Starts for Abidatro_25:

(Start: 39 @18908 has 37 MA's), (Start: 52 @18941 has 3 MA's), (57, 18986), (61, 19001), (99, 19154),

Gene: AdaS_28 Start: 20360, Stop: 20668, Start Num: 46

Candidate Starts for AdaS_28:

(Start: 46 @20360 has 56 MA's), (65, 20456), (66, 20459), (69, 20468), (99, 20594), (102, 20609),
(104, 20621),

Gene: AdoptaAdorbs_23 Start: 17622, Stop: 17945, Start Num: 39

Candidate Starts for AdoptaAdorbs_23:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Aikyam_28 Start: 20431, Stop: 20736, Start Num: 46

Candidate Starts for Aikyam_28:

(Start: 46 @20431 has 56 MA's), (55, 20482), (73, 20548), (78, 20572), (82, 20590), (88, 20611), (90,
20617), (94, 20629),

Gene: AlexMinion_23 Start: 17655, Stop: 17969, Start Num: 39

Candidate Starts for AlexMinion_23:

(38, 17652), (Start: 39 @17655 has 37 MA's), (53, 17691), (56, 17715), (60, 17733), (61, 17739), (66,
17757), (69, 17766), (79, 17811), (97, 17880), (99, 17892), (106, 17925),

Gene: Amanises_25 Start: 19185, Stop: 19517, Start Num: 39

Candidate Starts for Amanises_25:

(Start: 39 @19185 has 37 MA's), (57, 19260), (60, 19269), (66, 19293), (67, 19296), (80, 19350), (82,
19362), (97, 19416), (99, 19428),

Gene: Amelia_25 Start: 18043, Stop: 18393, Start Num: 43

Candidate Starts for Amelia_25:

(Start: 43 @18043 has 11 MA's), (Start: 44 @18046 has 5 MA's), (Start: 52 @18064 has 3 MA's), (53,
18076), (61, 18124), (66, 18142), (99, 18277), (102, 18292), (114, 18343),

Gene: AmiCi24_23 Start: 17621, Stop: 17944, Start Num: 39

Candidate Starts for AmiCi24_23:

(Start: 39 @17621 has 37 MA's), (53, 17660), (57, 17693), (66, 17726), (79, 17780), (99, 17861),

Gene: Amphitrite_23 Start: 17620, Stop: 17943, Start Num: 39

Candidate Starts for Amphitrite_23:

(Start: 39 @17620 has 37 MA's), (53, 17659), (57, 17692), (66, 17725), (79, 17779), (99, 17860),

Gene: Andrew_24 Start: 18042, Stop: 18377, Start Num: 37

Candidate Starts for Andrew_24:

(Start: 37 @18042 has 1 MA's), (Start: 39 @18048 has 37 MA's), (60, 18135), (61, 18141), (66, 18159),
(79, 18213), (99, 18294), (102, 18309),

Gene: Antrice_24 Start: 18536, Stop: 18868, Start Num: 39

Candidate Starts for Antrice_24:

(Start: 39 @18536 has 37 MA's), (Start: 46 @18548 has 56 MA's), (53, 18578), (57, 18611), (58, 18614), (68, 18650), (71, 18665), (80, 18701), (82, 18713), (91, 18743), (99, 18779), (100, 18785), (102, 18794),

Gene: Armstrong_22 Start: 17107, Stop: 17433, Start Num: 32
Candidate Starts for Armstrong_22:
(Start: 32 @17107 has 12 MA's), (80, 17290), (81, 17296), (99, 17368),

Gene: Atlantica_23 Start: 17622, Stop: 17945, Start Num: 39
Candidate Starts for Atlantica_23:
(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Auxilium_28 Start: 20421, Stop: 20726, Start Num: 46
Candidate Starts for Auxilium_28:
(Start: 46 @20421 has 56 MA's), (55, 20472), (73, 20538), (78, 20562), (82, 20580), (88, 20601), (90, 20607), (94, 20619),

Gene: Azaz_23 Start: 17683, Stop: 18000, Start Num: 39
Candidate Starts for Azaz_23:
(Start: 39 @17683 has 37 MA's), (53, 17722), (57, 17755), (66, 17788), (79, 17842), (99, 17923),

Gene: Babushka_23 Start: 17682, Stop: 18029, Start Num: 39
Candidate Starts for Babushka_23:
(Start: 39 @17682 has 37 MA's), (53, 17721), (61, 17769), (64, 17781), (66, 17787), (69, 17796), (79, 17841), (99, 17922), (104, 17949),

Gene: Bachaco_23 Start: 20374, Stop: 20691, Start Num: 32
Candidate Starts for Bachaco_23:
(Start: 32 @20374 has 12 MA's), (58, 20461), (70, 20503), (72, 20515), (84, 20566), (99, 20626),

Gene: BadWillHunting_25 Start: 18044, Stop: 18394, Start Num: 43
Candidate Starts for BadWillHunting_25:
(Start: 43 @18044 has 11 MA's), (Start: 44 @18047 has 5 MA's), (Start: 52 @18065 has 3 MA's), (53, 18077), (61, 18125), (66, 18143), (99, 18278), (102, 18293), (114, 18344),

Gene: BarretLemon_29 Start: 25316, Stop: 25687, Start Num: 27
Candidate Starts for BarretLemon_29:
(Start: 27 @25316 has 4 MA's), (Start: 28 @25319 has 19 MA's), (31, 25340), (58, 25424), (70, 25466), (71, 25475), (74, 25487), (79, 25508), (82, 25523), (99, 25589), (110, 25628),

Gene: Basilisk_24 Start: 19320, Stop: 19652, Start Num: 39
Candidate Starts for Basilisk_24:
(Start: 39 @19320 has 37 MA's), (Start: 50 @19347 has 1 MA's), (57, 19395), (60, 19404), (66, 19428), (80, 19485), (82, 19497), (97, 19551), (99, 19563),

Gene: BasketStar_28 Start: 20475, Stop: 20780, Start Num: 46
Candidate Starts for BasketStar_28:
(Start: 46 @20475 has 56 MA's), (55, 20526), (73, 20592), (78, 20616), (82, 20634), (88, 20655), (90, 20661), (94, 20673), (112, 20745),

Gene: Beans_27 Start: 24983, Stop: 25351, Start Num: 28
Candidate Starts for Beans_27:

(Start: 28 @24983 has 19 MA's), (58, 25088), (70, 25130), (71, 25139), (74, 25151), (79, 25172), (82, 25187), (99, 25253), (110, 25292),

Gene: Bedetta_25 Start: 18047, Stop: 18397, Start Num: 43

Candidate Starts for Bedetta_25:

(Start: 43 @18047 has 11 MA's), (Start: 44 @18050 has 5 MA's), (Start: 52 @18068 has 3 MA's), (53, 18080), (61, 18128), (66, 18146), (99, 18281), (102, 18296),

Gene: BellaJr_27 Start: 21288, Stop: 21566, Start Num: 46

Candidate Starts for BellaJr_27:

(22, 21204), (35, 21270), (Start: 46 @21288 has 56 MA's), (70, 21381), (72, 21393), (76, 21408), (90, 21450), (92, 21456), (99, 21486),

Gene: BenchScraper_28 Start: 20436, Stop: 20741, Start Num: 46

Candidate Starts for BenchScraper_28:

(Start: 46 @20436 has 56 MA's), (55, 20487), (73, 20553), (78, 20577), (82, 20595), (88, 20616), (90, 20622), (94, 20634),

Gene: Bernstein_22 Start: 17162, Stop: 17488, Start Num: 32

Candidate Starts for Bernstein_22:

(Start: 32 @17162 has 12 MA's), (80, 17345), (81, 17351), (99, 17423),

Gene: Bibble12_25 Start: 18034, Stop: 18396, Start Num: 43

Candidate Starts for Bibble12_25:

(Start: 43 @18034 has 11 MA's), (Start: 44 @18037 has 5 MA's), (Start: 50 @18052 has 1 MA's), (Start: 52 @18055 has 3 MA's), (53, 18067), (61, 18115), (66, 18133), (79, 18187), (99, 18268), (102, 18283), (115, 18337), (116, 18343),

Gene: BigDome_29 Start: 25311, Stop: 25679, Start Num: 28

Candidate Starts for BigDome_29:

(Start: 27 @25308 has 4 MA's), (Start: 28 @25311 has 19 MA's), (58, 25416), (70, 25458), (71, 25467), (74, 25479), (79, 25500), (82, 25515), (99, 25581), (110, 25620),

Gene: BigSherm_26 Start: 19724, Stop: 20032, Start Num: 46

Candidate Starts for BigSherm_26:

(Start: 46 @19724 has 56 MA's), (60, 19799), (65, 19820), (69, 19832), (80, 19880), (88, 19913), (99, 19958), (111, 20000),

Gene: BillyTP_28 Start: 20144, Stop: 20452, Start Num: 46

Candidate Starts for BillyTP_28:

(Start: 46 @20144 has 56 MA's), (65, 20240), (66, 20243), (69, 20252), (99, 20378), (102, 20393), (104, 20405),

Gene: BlackSpider_25 Start: 20146, Stop: 20424, Start Num: 46

Candidate Starts for BlackSpider_25:

(22, 20062), (35, 20128), (Start: 46 @20146 has 56 MA's), (70, 20239), (72, 20251), (76, 20266), (90, 20308), (92, 20314), (99, 20344),

Gene: BlueShadow_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for BlueShadow_28:

(Start: 46 @20421 has 56 MA's), (55, 20472), (73, 20538), (78, 20562), (82, 20580), (88, 20601), (90, 20607), (94, 20619), (112, 20691),

Gene: BossLady_29 Start: 25299, Stop: 25667, Start Num: 28

Candidate Starts for BossLady_29:

(Start: 28 @25299 has 19 MA's), (54, 25371), (56, 25392), (58, 25404), (60, 25410), (70, 25446), (74, 25467), (79, 25488), (82, 25503), (99, 25569), (110, 25608),

Gene: Brahms_22 Start: 17110, Stop: 17436, Start Num: 32

Candidate Starts for Brahms_22:

(Start: 32 @17110 has 12 MA's), (80, 17293), (99, 17371),

Gene: Brent_27 Start: 24986, Stop: 25354, Start Num: 28

Candidate Starts for Brent_27:

(Start: 28 @24986 has 19 MA's), (31, 25007), (58, 25091), (70, 25133), (71, 25142), (74, 25154), (99, 25256), (110, 25295),

Gene: Brynnie_24 Start: 19128, Stop: 19460, Start Num: 39

Candidate Starts for Brynnie_24:

(Start: 39 @19128 has 37 MA's), (Start: 50 @19155 has 1 MA's), (57, 19203), (60, 19212), (71, 19257), (80, 19293), (82, 19305), (97, 19359), (99, 19371),

Gene: Camara_23 Start: 17623, Stop: 17946, Start Num: 39

Candidate Starts for Camara_23:

(Start: 39 @17623 has 37 MA's), (53, 17662), (57, 17695), (66, 17728), (79, 17782), (99, 17863),

Gene: Cassini_25 Start: 20383, Stop: 20661, Start Num: 46

Candidate Starts for Cassini_25:

(1, 19501), (5, 19678), (8, 19720), (22, 20299), (35, 20365), (Start: 46 @20383 has 56 MA's), (70, 20476), (76, 20503), (90, 20545), (92, 20551), (99, 20581),

Gene: Celaena_23 Start: 20322, Stop: 20639, Start Num: 32

Candidate Starts for Celaena_23:

(Start: 32 @20322 has 12 MA's), (58, 20409), (70, 20451), (72, 20463), (84, 20514), (99, 20574),

Gene: Chickaboom_23 Start: 18049, Stop: 18381, Start Num: 39

Candidate Starts for Chickaboom_23:

(Start: 39 @18049 has 37 MA's), (Start: 50 @18076 has 1 MA's), (57, 18124), (60, 18133), (66, 18157), (71, 18178), (80, 18214), (97, 18280), (99, 18292),

Gene: Chicken_24 Start: 19054, Stop: 19386, Start Num: 39

Candidate Starts for Chicken_24:

(Start: 39 @19054 has 37 MA's), (49, 19072), (57, 19129), (66, 19162), (80, 19219), (82, 19231), (99, 19297),

Gene: ChuckDuck_27 Start: 20261, Stop: 20569, Start Num: 46

Candidate Starts for ChuckDuck_27:

(Start: 46 @20261 has 56 MA's), (65, 20357), (66, 20360), (69, 20369), (71, 20381), (99, 20495),

Gene: Clayda5_22 Start: 17113, Stop: 17439, Start Num: 32

Candidate Starts for Clayda5_22:

(Start: 32 @17113 has 12 MA's), (80, 17296), (81, 17302), (99, 17374),

Gene: CocoCinnamon_27 Start: 20011, Stop: 20283, Start Num: 46

Candidate Starts for CocoCinnamon_27:

(Start: 46 @20011 has 56 MA's), (90, 20170), (94, 20182), (99, 20206),

Gene: Coltrane_22 Start: 17110, Stop: 17436, Start Num: 32

Candidate Starts for Coltrane_22:

(Start: 32 @17110 has 12 MA's), (80, 17293), (99, 17371),

Gene: Colusalem_24 Start: 17886, Stop: 18236, Start Num: 43

Candidate Starts for Colusalem_24:

(Start: 43 @17886 has 11 MA's), (Start: 44 @17889 has 5 MA's), (Start: 52 @17907 has 3 MA's), (53, 17919), (61, 17967), (66, 17985), (99, 18120), (102, 18135),

Gene: Constance_26 Start: 20763, Stop: 21041, Start Num: 41

Candidate Starts for Constance_26:

(2, 19992), (3, 19998), (4, 20007), (35, 20754), (Start: 41 @20763 has 5 MA's), (Start: 46 @20769 has 56 MA's), (72, 20877), (76, 20892), (99, 20970),

Gene: CookieBear_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for CookieBear_28:

(Start: 46 @20421 has 56 MA's), (55, 20472), (73, 20538), (78, 20562), (82, 20580), (88, 20601), (90, 20607), (94, 20619),

Gene: Coral_24 Start: 17882, Stop: 18232, Start Num: 43

Candidate Starts for Coral_24:

(Start: 43 @17882 has 11 MA's), (Start: 44 @17885 has 5 MA's), (Start: 52 @17903 has 3 MA's), (53, 17915), (61, 17963), (66, 17981), (99, 18116), (102, 18131), (114, 18182),

Gene: Cote_25 Start: 18034, Stop: 18384, Start Num: 43

Candidate Starts for Cote_25:

(Start: 43 @18034 has 11 MA's), (Start: 44 @18037 has 5 MA's), (Start: 52 @18055 has 3 MA's), (61, 18115), (66, 18133), (99, 18268), (102, 18283), (115, 18337), (116, 18343),

Gene: Cygnet_24 Start: 18687, Stop: 19016, Start Num: 39

Candidate Starts for Cygnet_24:

(38, 18684), (Start: 39 @18687 has 37 MA's), (53, 18726), (60, 18768), (61, 18774), (66, 18792), (79, 18846), (91, 18891), (97, 18915), (99, 18927), (102, 18942), (111, 18969),

Gene: Damocles_25 Start: 18045, Stop: 18395, Start Num: 43

Candidate Starts for Damocles_25:

(Start: 43 @18045 has 11 MA's), (Start: 44 @18048 has 5 MA's), (Start: 52 @18066 has 3 MA's), (53, 18078), (61, 18126), (66, 18144), (99, 18279), (102, 18294),

Gene: DanHam62_23 Start: 17622, Stop: 17945, Start Num: 39

Candidate Starts for DanHam62_23:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Daob_25 Start: 18039, Stop: 18389, Start Num: 43

Candidate Starts for Daob_25:

(Start: 43 @18039 has 11 MA's), (Start: 44 @18042 has 5 MA's), (Start: 52 @18060 has 3 MA's), (61, 18120), (66, 18138), (99, 18273), (102, 18288), (115, 18342), (116, 18348),

Gene: Ding_28 Start: 20382, Stop: 20687, Start Num: 46

Candidate Starts for Ding_28:

(22, 20298), (35, 20364), (Start: 46 @20382 has 56 MA's), (55, 20433), (62, 20457), (73, 20499), (88, 20562), (90, 20568), (97, 20595),

Gene: EastWest_30 Start: 25176, Stop: 25514, Start Num: 34

Candidate Starts for EastWest_30:

(Start: 34 @25176 has 1 MA's), (58, 25257), (68, 25293), (70, 25299), (74, 25320), (77, 25332), (99, 25422), (110, 25461),

Gene: Eesa_24 Start: 19277, Stop: 19609, Start Num: 39

Candidate Starts for Eesa_24:

(Start: 39 @19277 has 37 MA's), (57, 19352), (60, 19361), (66, 19385), (67, 19388), (80, 19442), (82, 19454), (97, 19508), (99, 19520),

Gene: Eileen_26 Start: 20113, Stop: 20415, Start Num: 46

Candidate Starts for Eileen_26:

(Start: 46 @20113 has 56 MA's), (55, 20164), (82, 20272), (88, 20293), (90, 20299), (94, 20311), (97, 20326),

Gene: EvePickles_25 Start: 18992, Stop: 19300, Start Num: 46

Candidate Starts for EvePickles_25:

(Start: 46 @18992 has 56 MA's), (61, 19073), (69, 19100), (80, 19148), (99, 19226), (102, 19241),

Gene: Faja_25 Start: 18886, Stop: 19194, Start Num: 46

Candidate Starts for Faja_25:

(Start: 46 @18886 has 56 MA's), (66, 18985), (99, 19120), (102, 19135),

Gene: Fingolfin_23 Start: 17623, Stop: 17946, Start Num: 39

Candidate Starts for Fingolfin_23:

(Start: 39 @17623 has 37 MA's), (53, 17662), (57, 17695), (66, 17728), (79, 17782), (99, 17863),

Gene: FlameThrower_23 Start: 19859, Stop: 20176, Start Num: 32

Candidate Starts for FlameThrower_23:

(16, 19682), (19, 19763), (Start: 32 @19859 has 12 MA's), (58, 19946), (70, 19988), (72, 20000), (84, 20051), (99, 20111), (108, 20147),

Gene: FosterFrank_27 Start: 20334, Stop: 20642, Start Num: 46

Candidate Starts for FosterFrank_27:

(Start: 46 @20334 has 56 MA's), (66, 20433), (99, 20568), (102, 20583),

Gene: Franzy_27 Start: 24985, Stop: 25353, Start Num: 28

Candidate Starts for Franzy_27:

(Start: 28 @24985 has 19 MA's), (31, 25006), (58, 25090), (70, 25132), (71, 25141), (74, 25153), (99, 25255), (110, 25294),

Gene: GUPitcher_23 Start: 18548, Stop: 18850, Start Num: 46

Candidate Starts for GUPitcher_23:

(Start: 46 @18548 has 56 MA's), (70, 18647), (82, 18704), (97, 18758), (99, 18770), (112, 18815),

Gene: Galaxy_25 Start: 19013, Stop: 19336, Start Num: 39

Candidate Starts for Galaxy_25:

(Start: 39 @19013 has 37 MA's), (Start: 52 @19046 has 3 MA's), (61, 19106), (71, 19145), (99, 19259),

Gene: Gibbzilla_25 Start: 16637, Stop: 16939, Start Num: 46

Candidate Starts for Gibbzilla_25:

(Start: 46 @16637 has 56 MA's), (55, 16685), (78, 16775), (82, 16793), (94, 16832), (98, 16856),

Gene: Globfish_28 Start: 20655, Stop: 20960, Start Num: 46

Candidate Starts for Globfish_28:

(Start: 39 @20646 has 37 MA's), (Start: 46 @20655 has 56 MA's), (55, 20706), (78, 20796), (88, 20835), (94, 20853), (99, 20880),

Gene: Glotell_23 Start: 17620, Stop: 17943, Start Num: 39

Candidate Starts for Glotell_23:

(Start: 39 @17620 has 37 MA's), (53, 17659), (57, 17692), (66, 17725), (79, 17779), (99, 17860),

Gene: Gorpy_28 Start: 20369, Stop: 20677, Start Num: 46

Candidate Starts for Gorpy_28:

(Start: 46 @20369 has 56 MA's), (65, 20465), (66, 20468), (69, 20477), (99, 20603), (102, 20618), (104, 20630),

Gene: GramZayde_24 Start: 17873, Stop: 18220, Start Num: 44

Candidate Starts for GramZayde_24:

(Start: 44 @17873 has 5 MA's), (Start: 50 @17888 has 1 MA's), (Start: 52 @17891 has 3 MA's), (53, 17903), (61, 17951), (66, 17969), (74, 18002), (99, 18104), (102, 18119), (115, 18173), (116, 18179),

Gene: Gravel_25 Start: 19183, Stop: 19515, Start Num: 39

Candidate Starts for Gravel_25:

(Start: 39 @19183 has 37 MA's), (57, 19258), (60, 19267), (66, 19291), (67, 19294), (80, 19348), (82, 19360), (97, 19414), (99, 19426),

Gene: GravityBall_29 Start: 25318, Stop: 25686, Start Num: 28

Candidate Starts for GravityBall_29:

(Start: 27 @25315 has 4 MA's), (Start: 28 @25318 has 19 MA's), (58, 25423), (70, 25465), (71, 25474), (74, 25486), (79, 25507), (82, 25522), (99, 25588), (110, 25627),

Gene: Grekaycon_29 Start: 25245, Stop: 25613, Start Num: 28

Candidate Starts for Grekaycon_29:

(Start: 28 @25245 has 19 MA's), (54, 25317), (56, 25338), (58, 25350), (60, 25356), (70, 25392), (71, 25401), (74, 25413), (79, 25434), (80, 25437), (82, 25449), (99, 25515), (110, 25554),

Gene: Gsput1_22 Start: 18136, Stop: 18396, Start Num: 46

Candidate Starts for Gsput1_22:

(13, 17824), (14, 17839), (20, 18016), (Start: 46 @18136 has 56 MA's), (47, 18139), (Start: 51 @18157 has 2 MA's), (53, 18172), (61, 18205), (63, 18214), (72, 18238), (74, 18247), (94, 18301), (99, 18325), (102, 18340), (105, 18355), (110, 18364),

Gene: Gusanita_24 Start: 19423, Stop: 19737, Start Num: 46

Candidate Starts for Gusanita_24:

(Start: 46 @19423 has 56 MA's), (59, 19495), (78, 19573), (97, 19645), (100, 19663),

Gene: Halloweekend_24 Start: 19350, Stop: 19658, Start Num: 46

Candidate Starts for Halloweekend_24:

(Start: 46 @19350 has 56 MA's), (60, 19425), (65, 19446), (69, 19458), (80, 19506), (88, 19539), (99, 19584), (111, 19626),

Gene: HamCheese_23 Start: 17622, Stop: 17930, Start Num: 39

Candidate Starts for HamCheese_23:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: HannahPhantana_25 Start: 18037, Stop: 18396, Start Num: 44

Candidate Starts for HannahPhantana_25:

(Start: 43 @18034 has 11 MA's), (Start: 44 @18037 has 5 MA's), (Start: 50 @18052 has 1 MA's),
(Start: 52 @18055 has 3 MA's), (53, 18067), (61, 18115), (66, 18133), (79, 18187), (99, 18268), (102,
18283), (115, 18337), (116, 18343),

Gene: Henrique_27 Start: 20198, Stop: 20500, Start Num: 46

Candidate Starts for Henrique_27:

(7, 19532), (Start: 46 @20198 has 56 MA's), (55, 20249), (78, 20339), (79, 20342), (82, 20357), (86,
20369), (88, 20378), (90, 20384), (94, 20396), (95, 20399), (97, 20411),

Gene: Hillester_28 Start: 20421, Stop: 20726, Start Num: 46

Candidate Starts for Hillester_28:

(Start: 46 @20421 has 56 MA's), (55, 20472), (73, 20538), (78, 20562), (82, 20580), (88, 20601), (90,
20607), (94, 20619),

Gene: HotPotato_26 Start: 20119, Stop: 20421, Start Num: 46

Candidate Starts for HotPotato_26:

(Start: 46 @20119 has 56 MA's), (82, 20278), (86, 20290), (88, 20299), (90, 20305), (94, 20317), (97,
20332),

Gene: Ichiang_24 Start: 19369, Stop: 19677, Start Num: 46

Candidate Starts for Ichiang_24:

(Start: 46 @19369 has 56 MA's), (60, 19444), (65, 19465), (69, 19477), (80, 19525), (88, 19558), (99,
19603), (111, 19645),

Gene: IsHungry_26 Start: 19976, Stop: 20278, Start Num: 46

Candidate Starts for IsHungry_26:

(Start: 46 @19976 has 56 MA's), (55, 20027), (82, 20135), (88, 20156), (90, 20162),

Gene: Isolde_28 Start: 20195, Stop: 20503, Start Num: 46

Candidate Starts for Isolde_28:

(Start: 46 @20195 has 56 MA's), (65, 20291), (66, 20294), (69, 20303), (99, 20429), (102, 20444),
(104, 20456),

Gene: JKerns_29 Start: 25272, Stop: 25640, Start Num: 28

Candidate Starts for JKerns_29:

(Start: 28 @25272 has 19 MA's), (58, 25377), (60, 25383), (70, 25419), (71, 25428), (74, 25440), (79,
25461), (82, 25476), (95, 25518), (99, 25542), (110, 25581),

Gene: Jamun_24 Start: 18726, Stop: 19058, Start Num: 39

Candidate Starts for Jamun_24:

(Start: 39 @18726 has 37 MA's), (57, 18801), (79, 18888), (80, 18891), (82, 18903), (87, 18918), (97,
18957), (99, 18969),

Gene: Jawnski_27 Start: 24995, Stop: 25363, Start Num: 28

Candidate Starts for Jawnski_27:

(Start: 28 @24995 has 19 MA's), (58, 25100), (70, 25142), (71, 25151), (74, 25163), (82, 25199), (85,
25208), (96, 25250), (99, 25265), (110, 25304),

Gene: JellyBread_28 Start: 20353, Stop: 20661, Start Num: 46

Candidate Starts for JellyBread_28:

(Start: 46 @20353 has 56 MA's), (65, 20449), (66, 20452), (69, 20461), (99, 20587), (102, 20602), (104, 20614),

Gene: Jerole_25 Start: 18034, Stop: 18381, Start Num: 44

Candidate Starts for Jerole_25:

(Start: 44 @18034 has 5 MA's), (Start: 50 @18049 has 1 MA's), (Start: 52 @18052 has 3 MA's), (53, 18064), (61, 18112), (66, 18130), (74, 18163), (99, 18265), (102, 18280), (115, 18334), (116, 18340),

Gene: Jordan_29 Start: 25242, Stop: 25610, Start Num: 28

Candidate Starts for Jordan_29:

(Start: 28 @25242 has 19 MA's), (58, 25347), (60, 25353), (70, 25389), (71, 25398), (74, 25410), (79, 25431), (82, 25446), (95, 25488), (99, 25512), (100, 25518), (110, 25551),

Gene: Juno112_23 Start: 17622, Stop: 17945, Start Num: 39

Candidate Starts for Juno112_23:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: KHumphrey_23 Start: 17620, Stop: 17943, Start Num: 39

Candidate Starts for KHumphrey_23:

(Start: 39 @17620 has 37 MA's), (53, 17659), (57, 17692), (66, 17725), (79, 17779), (99, 17860),

Gene: Kabloowy_28 Start: 20549, Stop: 20857, Start Num: 46

Candidate Starts for Kabloowy_28:

(6, 19871), (10, 20021), (Start: 46 @20549 has 56 MA's), (65, 20645), (66, 20648), (69, 20657), (99, 20783), (102, 20798), (104, 20810),

Gene: Karkharias_26 Start: 20115, Stop: 20417, Start Num: 46

Candidate Starts for Karkharias_26:

(Start: 46 @20115 has 56 MA's), (55, 20166), (82, 20274), (88, 20295), (90, 20301), (94, 20313),

Gene: Katzastrophic_23 Start: 19980, Stop: 20297, Start Num: 32

Candidate Starts for Katzastrophic_23:

(Start: 32 @19980 has 12 MA's), (58, 20067), (70, 20109), (72, 20121), (84, 20172), (99, 20232), (108, 20268),

Gene: KayMoney_27 Start: 20265, Stop: 20573, Start Num: 46

Candidate Starts for KayMoney_27:

(Start: 46 @20265 has 56 MA's), (65, 20361), (66, 20364), (69, 20373), (71, 20385), (99, 20499),

Gene: KendraB23_25 Start: 19185, Stop: 19517, Start Num: 39

Candidate Starts for KendraB23_25:

(Start: 39 @19185 has 37 MA's), (57, 19260), (60, 19269), (66, 19293), (67, 19296), (80, 19350), (82, 19362), (97, 19416), (99, 19428),

Gene: Kepler_24 Start: 17872, Stop: 18219, Start Num: 44

Candidate Starts for Kepler_24:

(Start: 44 @17872 has 5 MA's), (Start: 50 @17887 has 1 MA's), (Start: 52 @17890 has 3 MA's), (53, 17902), (61, 17950), (66, 17968), (99, 18103), (102, 18118), (115, 18172), (116, 18178),

Gene: Khuang_21 Start: 17688, Stop: 17984, Start Num: 46

Candidate Starts for Khuang_21:

(Start: 39 @17679 has 37 MA's), (Start: 46 @17688 has 56 MA's), (55, 17739), (62, 17763), (88, 17868), (90, 17874), (94, 17886), (97, 17901), (99, 17913),

Gene: King2_27 Start: 24982, Stop: 25350, Start Num: 28

Candidate Starts for King2_27:

(Start: 28 @24982 has 19 MA's), (58, 25087), (70, 25129), (71, 25138), (74, 25150), (82, 25186), (85, 25195), (99, 25252), (110, 25291),

Gene: Kudfre_35 Start: 29727, Stop: 29957, Start Num: 52

Candidate Starts for Kudfre_35:

(Start: 51 @29724 has 2 MA's), (Start: 52 @29727 has 3 MA's), (61, 29772), (64, 29784), (67, 29793), (76, 29820), (88, 29853), (90, 29859), (92, 29865), (98, 29892), (99, 29895), (101, 29907), (110, 29934), (113, 29943),

Gene: Kukla_23 Start: 18379, Stop: 18687, Start Num: 46

Candidate Starts for Kukla_23:

(17, 18238), (18, 18253), (Start: 46 @18379 has 56 MA's), (60, 18454), (69, 18487), (80, 18535), (88, 18568), (99, 18613),

Gene: Kuleana_24 Start: 17910, Stop: 18254, Start Num: 44

Candidate Starts for Kuleana_24:

(Start: 41 @17904 has 5 MA's), (Start: 44 @17910 has 5 MA's), (55, 17961), (66, 18006), (79, 18060), (80, 18063), (99, 18141), (100, 18147), (102, 18156), (115, 18210), (117, 18231), (118, 18237),

Gene: Kumotta_24 Start: 18861, Stop: 19166, Start Num: 45

Candidate Starts for Kumotta_24:

(Start: 45 @18861 has 2 MA's), (75, 18996), (98, 19092),

Gene: Laphuphu24k_22 Start: 17622, Stop: 17930, Start Num: 39

Candidate Starts for Laphuphu24k_22:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Lasker_28 Start: 20429, Stop: 20734, Start Num: 46

Candidate Starts for Lasker_28:

(Start: 46 @20429 has 56 MA's), (55, 20480), (73, 20546), (78, 20570), (82, 20588), (88, 20609), (90, 20615), (94, 20627),

Gene: Lawnathon_28 Start: 20289, Stop: 20597, Start Num: 46

Candidate Starts for Lawnathon_28:

(Start: 46 @20289 has 56 MA's), (65, 20385), (66, 20388), (69, 20397), (99, 20523), (102, 20538), (104, 20550),

Gene: LeBruni_27 Start: 20262, Stop: 20564, Start Num: 46

Candidate Starts for LeBruni_27:

(40, 20256), (Start: 46 @20262 has 56 MA's), (58, 20331), (86, 20442), (91, 20460), (97, 20484), (99, 20496),

Gene: LeeroyJ_29 Start: 25315, Stop: 25686, Start Num: 27

Candidate Starts for LeeroyJ_29:

(Start: 27 @25315 has 4 MA's), (Start: 28 @25318 has 19 MA's), (31, 25339), (58, 25423), (70, 25465), (71, 25474), (74, 25486), (79, 25507), (82, 25522), (99, 25588), (110, 25627),

Gene: Leona_23 Start: 17683, Stop: 18000, Start Num: 39

Candidate Starts for Leona_23:

(Start: 39 @17683 has 37 MA's), (53, 17722), (57, 17755), (66, 17788), (79, 17842), (99, 17923),

Gene: LilyBell_26 Start: 20124, Stop: 20429, Start Num: 46

Candidate Starts for LilyBell_26:

(25, 20067), (40, 20115), (Start: 46 @20124 has 56 MA's), (55, 20178), (82, 20286), (88, 20307), (90, 20313), (94, 20325),

Gene: LittleRon_27 Start: 20234, Stop: 20542, Start Num: 46

Candidate Starts for LittleRon_27:

(Start: 46 @20234 has 56 MA's), (65, 20330), (66, 20333), (99, 20468),

Gene: LittleTokyo_24 Start: 17866, Stop: 18186, Start Num: 43

Candidate Starts for LittleTokyo_24:

(Start: 41 @17863 has 5 MA's), (Start: 43 @17866 has 11 MA's), (55, 17917), (66, 17962), (83, 18031), (95, 18073), (102, 18112),

Gene: Lunar_25 Start: 18034, Stop: 18384, Start Num: 43

Candidate Starts for Lunar_25:

(Start: 43 @18034 has 11 MA's), (Start: 44 @18037 has 5 MA's), (Start: 52 @18055 has 3 MA's), (61, 18115), (66, 18133), (99, 18268), (102, 18283), (115, 18337), (116, 18343),

Gene: MUWow_27 Start: 20453, Stop: 20761, Start Num: 46

Candidate Starts for MUWow_27:

(Start: 46 @20453 has 56 MA's), (65, 20549), (66, 20552), (69, 20561), (99, 20687), (102, 20702), (104, 20714),

Gene: Maja_24 Start: 18850, Stop: 19128, Start Num: 46

Candidate Starts for Maja_24:

(Start: 34 @18832 has 1 MA's), (Start: 46 @18850 has 56 MA's), (94, 19027), (98, 19048), (99, 19051),

Gene: Mapleville_27 Start: 20359, Stop: 20667, Start Num: 46

Candidate Starts for Mapleville_27:

(Start: 46 @20359 has 56 MA's), (65, 20455), (66, 20458), (69, 20467), (99, 20593), (102, 20608), (104, 20620),

Gene: MargaretKali_24 Start: 18496, Stop: 18801, Start Num: 45

Candidate Starts for MargaretKali_24:

(Start: 45 @18496 has 2 MA's), (75, 18631), (98, 18727),

Gene: Martha_29 Start: 25246, Stop: 25614, Start Num: 28

Candidate Starts for Martha_29:

(Start: 28 @25246 has 19 MA's), (54, 25318), (56, 25339), (58, 25351), (60, 25357), (70, 25393), (71, 25402), (74, 25414), (79, 25435), (80, 25438), (82, 25450), (99, 25516), (110, 25555),

Gene: MaterMagnus_28 Start: 20431, Stop: 20736, Start Num: 46

Candidate Starts for MaterMagnus_28:

(Start: 46 @20431 has 56 MA's), (55, 20482), (73, 20548), (78, 20572), (82, 20590), (88, 20611), (90, 20617), (94, 20629),

Gene: Melons_25 Start: 18034, Stop: 18384, Start Num: 43

Candidate Starts for Melons_25:

(Start: 43 @18034 has 11 MA's), (Start: 44 @18037 has 5 MA's), (Start: 52 @18055 has 3 MA's), (61, 18115), (66, 18133), (99, 18268), (102, 18283), (115, 18337), (116, 18343),

Gene: Merpity_25 Start: 18054, Stop: 18350, Start Num: 35

Candidate Starts for Merpity_25:

(22, 17988), (35, 18054), (Start: 46 @18072 has 56 MA's), (70, 18165), (72, 18177), (76, 18192), (90, 18234), (92, 18240), (99, 18270),

Gene: MidnightRain_28 Start: 20420, Stop: 20725, Start Num: 46

Candidate Starts for MidnightRain_28:

(Start: 46 @20420 has 56 MA's), (55, 20471), (73, 20537), (78, 20561), (82, 20579), (88, 20600), (90, 20606), (94, 20618),

Gene: MillySue_26 Start: 19546, Stop: 19851, Start Num: 46

Candidate Starts for MillySue_26:

(7, 18883), (Start: 46 @19546 has 56 MA's), (55, 19597), (82, 19705), (94, 19744), (97, 19759),

Gene: MrSmee_23 Start: 18072, Stop: 18350, Start Num: 46

Candidate Starts for MrSmee_23:

(22, 17988), (35, 18054), (Start: 46 @18072 has 56 MA's), (70, 18165), (72, 18177), (76, 18192), (90, 18234), (92, 18240), (99, 18270),

Gene: NathanVaag_27 Start: 24958, Stop: 25326, Start Num: 28

Candidate Starts for NathanVaag_27:

(Start: 28 @24958 has 19 MA's), (58, 25063), (70, 25105), (71, 25114), (72, 25117), (74, 25126), (82, 25162), (99, 25228), (110, 25267),

Gene: NewKitty_29 Start: 20590, Stop: 20898, Start Num: 46

Candidate Starts for NewKitty_29:

(Start: 46 @20590 has 56 MA's), (65, 20686), (66, 20689), (69, 20698), (99, 20824), (102, 20839), (104, 20851),

Gene: Niblet_24 Start: 19054, Stop: 19386, Start Num: 39

Candidate Starts for Niblet_24:

(Start: 39 @19054 has 37 MA's), (49, 19072), (57, 19129), (66, 19162), (80, 19219), (82, 19231), (99, 19297),

Gene: NidoQ_26 Start: 20780, Stop: 21058, Start Num: 41

Candidate Starts for NidoQ_26:

(35, 20771), (Start: 41 @20780 has 5 MA's), (Start: 46 @20786 has 56 MA's), (62, 20858), (72, 20894), (76, 20909), (99, 20987),

Gene: Nikan_46 Start: 34694, Stop: 35047, Start Num: 26

Candidate Starts for Nikan_46:

(21, 34661), (Start: 26 @34694 has 2 MA's), (42, 34742), (48, 34751), (53, 34778), (69, 34853), (80, 34901), (90, 34940), (99, 34979), (103, 34997),

Gene: NoSwimming_27 Start: 24543, Stop: 24818, Start Num: 41

Candidate Starts for NoSwimming_27:

(Start: 41 @24543 has 5 MA's), (Start: 46 @24549 has 56 MA's), (84, 24687), (99, 24738),

Gene: Octobien14_37 Start: 30411, Stop: 30644, Start Num: 51

Candidate Starts for Octobien14_37:

(Start: 51 @30411 has 2 MA's), (Start: 52 @30414 has 3 MA's), (61, 30459), (64, 30471), (67, 30480), (72, 30492), (76, 30507), (88, 30540), (90, 30546), (92, 30552), (98, 30579), (99, 30582), (101, 30594), (110, 30621), (113, 30630),

Gene: Ollypop_46 Start: 35786, Stop: 36139, Start Num: 26

Candidate Starts for Ollypop_46:

(Start: 26 @35786 has 2 MA's), (31, 35813), (Start: 39 @35828 has 37 MA's), (42, 35834), (48, 35843), (60, 35912), (69, 35945), (84, 36011), (90, 36032), (99, 36071), (103, 36089),

Gene: Oppalora_23 Start: 17621, Stop: 17944, Start Num: 39

Candidate Starts for Oppalora_23:

(Start: 39 @17621 has 37 MA's), (53, 17660), (57, 17693), (66, 17726), (79, 17780), (99, 17861),

Gene: Orcanus_24 Start: 18977, Stop: 19309, Start Num: 39

Candidate Starts for Orcanus_24:

(Start: 39 @18977 has 37 MA's), (57, 19052), (60, 19061), (66, 19085), (67, 19088), (80, 19142), (82, 19154), (97, 19208), (99, 19220),

Gene: OtsoOtso_24 Start: 17889, Stop: 18239, Start Num: 43

Candidate Starts for OtsoOtso_24:

(Start: 43 @17889 has 11 MA's), (Start: 44 @17892 has 5 MA's), (Start: 52 @17910 has 3 MA's), (53, 17922), (61, 17970), (66, 17988), (99, 18123), (102, 18138),

Gene: Peas_26 Start: 20113, Stop: 20415, Start Num: 46

Candidate Starts for Peas_26:

(Start: 46 @20113 has 56 MA's), (55, 20164), (82, 20272), (88, 20293), (90, 20299), (94, 20311), (97, 20326),

Gene: PeggyLeg03_26 Start: 20763, Stop: 21041, Start Num: 41

Candidate Starts for PeggyLeg03_26:

(2, 19992), (3, 19998), (4, 20007), (35, 20754), (Start: 41 @20763 has 5 MA's), (Start: 46 @20769 has 56 MA's), (72, 20877), (76, 20892), (99, 20970),

Gene: Pelletreau_25 Start: 19183, Stop: 19515, Start Num: 39

Candidate Starts for Pelletreau_25:

(Start: 39 @19183 has 37 MA's), (57, 19258), (60, 19267), (66, 19291), (67, 19294), (80, 19348), (82, 19360), (97, 19414), (99, 19426),

Gene: PhirstandPhine_25 Start: 18037, Stop: 18390, Start Num: 44

Candidate Starts for PhirstandPhine_25:

(Start: 44 @18037 has 5 MA's), (Start: 52 @18055 has 3 MA's), (61, 18115), (66, 18133), (99, 18268), (102, 18283), (115, 18337),

Gene: PhluffyCoco_23 Start: 17622, Stop: 17930, Start Num: 39

Candidate Starts for PhluffyCoco_23:

(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Phrank15_27 Start: 20294, Stop: 20602, Start Num: 46

Candidate Starts for Phrank15_27:

(Start: 46 @20294 has 56 MA's), (65, 20390), (66, 20393), (69, 20402), (99, 20528), (102, 20543), (104, 20555),

Gene: Piccoletto_27 Start: 24960, Stop: 25328, Start Num: 28

Candidate Starts for Piccoletto_27:

(Start: 28 @24960 has 19 MA's), (58, 25065), (70, 25107), (71, 25116), (74, 25128), (79, 25149), (82, 25164), (99, 25230), (110, 25269),

Gene: Pigu_22 Start: 17919, Stop: 18197, Start Num: 46
Candidate Starts for Pigu_22:
(Start: 46 @17919 has 56 MA's), (94, 18096), (98, 18117), (99, 18120),

Gene: Pineda_25 Start: 18045, Stop: 18395, Start Num: 43
Candidate Starts for Pineda_25:
(Start: 43 @18045 has 11 MA's), (Start: 44 @18048 has 5 MA's), (Start: 52 @18066 has 3 MA's), (53, 18078), (61, 18126), (66, 18144), (99, 18279), (102, 18294),

Gene: Pippa_29 Start: 25371, Stop: 25739, Start Num: 28
Candidate Starts for Pippa_29:
(Start: 28 @25371 has 19 MA's), (58, 25476), (60, 25482), (70, 25518), (71, 25527), (74, 25539), (82, 25575), (85, 25584), (96, 25626), (99, 25641), (110, 25680),

Gene: Polka_24 Start: 17889, Stop: 18239, Start Num: 43
Candidate Starts for Polka_24:
(Start: 43 @17889 has 11 MA's), (Start: 44 @17892 has 5 MA's), (Start: 52 @17910 has 3 MA's), (53, 17922), (61, 17970), (66, 17988), (99, 18123), (102, 18138),

Gene: Pucara_26 Start: 20288, Stop: 20599, Start Num: 46
Candidate Starts for Pucara_26:
(9, 19760), (11, 19802), (12, 19805), (Start: 46 @20288 has 56 MA's), (62, 20372), (63, 20378), (78, 20438), (82, 20456), (97, 20510), (100, 20528), (109, 20564),

Gene: QuinnAvery_26 Start: 19733, Stop: 20041, Start Num: 46
Candidate Starts for QuinnAvery_26:
(Start: 46 @19733 has 56 MA's), (60, 19808), (65, 19829), (69, 19841), (80, 19889), (88, 19922), (99, 19967), (111, 20009),

Gene: RadFad_28 Start: 20421, Stop: 20726, Start Num: 46
Candidate Starts for RadFad_28:
(Start: 46 @20421 has 56 MA's), (55, 20472), (73, 20538), (78, 20562), (82, 20580), (88, 20601), (90, 20607), (94, 20619),

Gene: Raphaella_28 Start: 20360, Stop: 20668, Start Num: 46
Candidate Starts for Raphaella_28:
(Start: 46 @20360 has 56 MA's), (65, 20456), (66, 20459), (69, 20468), (99, 20594), (102, 20609), (104, 20621),

Gene: Rattail_23 Start: 17683, Stop: 18000, Start Num: 39
Candidate Starts for Rattail_23:
(Start: 39 @17683 has 37 MA's), (53, 17722), (57, 17755), (66, 17788), (79, 17842), (99, 17923),

Gene: RedFox_23 Start: 17622, Stop: 17945, Start Num: 39
Candidate Starts for RedFox_23:
(Start: 39 @17622 has 37 MA's), (53, 17661), (57, 17694), (66, 17727), (79, 17781), (99, 17862),

Gene: Ren19_45 Start: 34694, Stop: 35047, Start Num: 26
Candidate Starts for Ren19_45:
(21, 34661), (Start: 26 @34694 has 2 MA's), (42, 34742), (48, 34751), (53, 34778), (69, 34853), (80, 34901), (90, 34940), (99, 34979), (103, 34997),

Gene: Renna12_24 Start: 17975, Stop: 18319, Start Num: 39

Candidate Starts for Renna12_24:

(Start: 39 @17975 has 37 MA's), (53, 18014), (57, 18047), (66, 18080), (79, 18134), (97, 18203), (99, 18215),

Gene: Richie_28 Start: 20436, Stop: 20741, Start Num: 46

Candidate Starts for Richie_28:

(Start: 46 @20436 has 56 MA's), (55, 20487), (73, 20553), (78, 20577), (82, 20595), (88, 20616), (90, 20622), (94, 20634),

Gene: Rollins_22 Start: 17162, Stop: 17488, Start Num: 32

Candidate Starts for Rollins_22:

(Start: 32 @17162 has 12 MA's), (80, 17345), (81, 17351), (99, 17423),

Gene: RootBeer_23 Start: 17990, Stop: 18268, Start Num: 46

Candidate Starts for RootBeer_23:

(15, 17732), (35, 17975), (Start: 46 @17990 has 56 MA's), (99, 18188), (110, 18227),

Gene: Ruchi_24 Start: 19293, Stop: 19598, Start Num: 50

Candidate Starts for Ruchi_24:

(Start: 39 @19266 has 37 MA's), (Start: 50 @19293 has 1 MA's), (57, 19341), (60, 19350), (66, 19374), (80, 19431), (82, 19443), (97, 19497), (99, 19509),

Gene: Sakai_28 Start: 20369, Stop: 20677, Start Num: 46

Candidate Starts for Sakai_28:

(Start: 46 @20369 has 56 MA's), (65, 20465), (66, 20468), (69, 20477), (99, 20603), (102, 20618), (104, 20630),

Gene: Sashimi_26 Start: 18795, Stop: 19100, Start Num: 46

Candidate Starts for Sashimi_26:

(30, 18762), (Start: 46 @18795 has 56 MA's), (55, 18846), (67, 18888), (81, 18948), (82, 18954), (89, 18978), (90, 18981), (94, 18993), (97, 19008), (98, 19017),

Gene: Schmidt_22 Start: 17098, Stop: 17373, Start Num: 51

Candidate Starts for Schmidt_22:

(Start: 46 @17077 has 56 MA's), (Start: 51 @17098 has 2 MA's), (53, 17113), (61, 17146), (72, 17179), (74, 17188), (86, 17218), (93, 17239), (97, 17254), (98, 17263),

Gene: Scotia_27 Start: 24546, Stop: 24821, Start Num: 41

Candidate Starts for Scotia_27:

(Start: 41 @24546 has 5 MA's), (Start: 46 @24552 has 56 MA's), (99, 24741),

Gene: Sephiroth_36 Start: 29898, Stop: 30128, Start Num: 52

Candidate Starts for Sephiroth_36:

(Start: 51 @29895 has 2 MA's), (Start: 52 @29898 has 3 MA's), (61, 29943), (64, 29955), (67, 29964), (76, 29991), (88, 30024), (90, 30030), (92, 30036), (98, 30063), (99, 30066), (101, 30078), (110, 30105), (113, 30114),

Gene: Shade_29 Start: 25212, Stop: 25580, Start Num: 28

Candidate Starts for Shade_29:

(Start: 28 @25212 has 19 MA's), (58, 25317), (60, 25323), (70, 25359), (71, 25368), (74, 25380), (82, 25416), (95, 25458), (99, 25482), (100, 25488), (110, 25521),

Gene: Shen_25 Start: 19184, Stop: 19516, Start Num: 39

Candidate Starts for Shen_25:

(Start: 39 @19184 has 37 MA's), (57, 19259), (60, 19268), (66, 19292), (67, 19295), (80, 19349), (82, 19361), (97, 19415), (99, 19427),

Gene: SilentRX_40 Start: 35414, Stop: 35743, Start Num: 33

Candidate Starts for SilentRX_40:

(23, 35366), (Start: 33 @35414 has 1 MA's), (57, 35498), (64, 35525), (71, 35552), (99, 35666), (102, 35681),

Gene: Skitty_23 Start: 18072, Stop: 18350, Start Num: 46

Candidate Starts for Skitty_23:

(22, 17988), (35, 18054), (Start: 46 @18072 has 56 MA's), (70, 18165), (72, 18177), (76, 18192), (90, 18234), (92, 18240), (99, 18270),

Gene: Skylord_22 Start: 17110, Stop: 17436, Start Num: 32

Candidate Starts for Skylord_22:

(Start: 32 @17110 has 12 MA's), (80, 17293), (81, 17299), (99, 17371),

Gene: SonDevVon_27 Start: 20362, Stop: 20670, Start Num: 46

Candidate Starts for SonDevVon_27:

(Start: 46 @20362 has 56 MA's), (65, 20458), (66, 20461), (69, 20470), (99, 20596), (102, 20611), (104, 20623),

Gene: Sonny_29 Start: 25242, Stop: 25610, Start Num: 28

Candidate Starts for Sonny_29:

(Start: 28 @25242 has 19 MA's), (58, 25347), (60, 25353), (70, 25389), (71, 25398), (74, 25410), (79, 25431), (82, 25446), (95, 25488), (99, 25512), (100, 25518), (110, 25551),

Gene: SpicyFrank_28 Start: 20656, Stop: 20961, Start Num: 46

Candidate Starts for SpicyFrank_28:

(Start: 46 @20656 has 56 MA's), (55, 20707), (78, 20797), (88, 20836), (94, 20854), (99, 20881),

Gene: Sporco_28 Start: 20417, Stop: 20725, Start Num: 46

Candidate Starts for Sporco_28:

(Start: 46 @20417 has 56 MA's), (65, 20513), (66, 20516), (69, 20525), (99, 20651), (102, 20666), (104, 20678),

Gene: StevieBAY_29 Start: 25315, Stop: 25686, Start Num: 27

Candidate Starts for StevieBAY_29:

(Start: 27 @25315 has 4 MA's), (Start: 28 @25318 has 19 MA's), (58, 25423), (70, 25465), (71, 25474), (74, 25486), (79, 25507), (82, 25522), (99, 25588), (110, 25627),

Gene: StuartMinion_23 Start: 17655, Stop: 17969, Start Num: 39

Candidate Starts for StuartMinion_23:

(38, 17652), (Start: 39 @17655 has 37 MA's), (53, 17691), (56, 17715), (60, 17733), (61, 17739), (66, 17757), (69, 17766), (79, 17811), (97, 17880), (99, 17892), (106, 17925),

Gene: Syleon_36 Start: 29820, Stop: 30050, Start Num: 52

Candidate Starts for Syleon_36:

(Start: 51 @29817 has 2 MA's), (Start: 52 @29820 has 3 MA's), (61, 29865), (64, 29877), (67, 29886), (76, 29913), (88, 29946), (90, 29952), (92, 29958), (98, 29985), (99, 29988), (101, 30000), (110, 30027), (113, 30036),

Gene: TaeYoung_29 Start: 25246, Stop: 25614, Start Num: 28

Candidate Starts for TaeYoung_29:

(Start: 28 @25246 has 19 MA's), (54, 25318), (56, 25339), (58, 25351), (60, 25357), (70, 25393), (71, 25402), (74, 25414), (79, 25435), (80, 25438), (82, 25450), (99, 25516), (110, 25555),

Gene: TaylorSipht_24 Start: 18002, Stop: 18337, Start Num: 39

Candidate Starts for TaylorSipht_24:

(Start: 39 @18002 has 37 MA's), (Start: 52 @18032 has 3 MA's), (57, 18077), (66, 18110), (71, 18131), (79, 18164), (80, 18167), (82, 18179), (91, 18209), (97, 18233), (99, 18245),

Gene: ThayneTheZag_28 Start: 20519, Stop: 20830, Start Num: 46

Candidate Starts for ThayneTheZag_28:

(Start: 46 @20519 has 56 MA's), (55, 20576), (78, 20669), (82, 20687), (98, 20750), (102, 20768),

Gene: Timinator_29 Start: 25315, Stop: 25686, Start Num: 27

Candidate Starts for Timinator_29:

(Start: 27 @25315 has 4 MA's), (Start: 28 @25318 has 19 MA's), (31, 25339), (58, 25423), (70, 25465), (71, 25474), (74, 25486), (79, 25507), (82, 25522), (99, 25588), (110, 25627),

Gene: Toad24_25 Start: 19184, Stop: 19516, Start Num: 39

Candidate Starts for Toad24_25:

(Start: 39 @19184 has 37 MA's), (57, 19259), (60, 19268), (66, 19292), (67, 19295), (80, 19349), (82, 19361), (97, 19415), (99, 19427),

Gene: Vitas_22 Start: 17102, Stop: 17428, Start Num: 32

Candidate Starts for Vitas_22:

(Start: 32 @17102 has 12 MA's), (80, 17285), (81, 17291), (99, 17363),

Gene: Vopal_29 Start: 20432, Stop: 20740, Start Num: 46

Candidate Starts for Vopal_29:

(Start: 46 @20432 has 56 MA's), (65, 20528), (66, 20531), (69, 20540), (99, 20666), (102, 20681), (104, 20693),

Gene: Vulpecula_24 Start: 18724, Stop: 19056, Start Num: 39

Candidate Starts for Vulpecula_24:

(Start: 39 @18724 has 37 MA's), (57, 18799), (60, 18808), (80, 18889), (82, 18901), (87, 18916), (97, 18955), (99, 18967),

Gene: Westrich_25 Start: 19173, Stop: 19505, Start Num: 39

Candidate Starts for Westrich_25:

(Start: 39 @19173 has 37 MA's), (57, 19248), (60, 19257), (66, 19281), (67, 19284), (80, 19338), (82, 19350), (97, 19404), (99, 19416),

Gene: WileyE_23 Start: 18049, Stop: 18381, Start Num: 39

Candidate Starts for WileyE_23:

(Start: 39 @18049 has 37 MA's), (Start: 50 @18076 has 1 MA's), (57, 18124), (60, 18133), (66, 18157), (71, 18178), (80, 18214), (97, 18280), (99, 18292),

Gene: Windest_29 Start: 20486, Stop: 20791, Start Num: 46

Candidate Starts for Windest_29:

(Start: 46 @20486 has 56 MA's), (55, 20537), (73, 20603), (78, 20627), (82, 20645), (88, 20666), (90, 20672), (94, 20684), (112, 20756),

Gene: Wyborn_30 Start: 25584, Stop: 25931, Start Num: 36

Candidate Starts for Wyborn_30:

(24, 25542), (Start: 36 @25584 has 1 MA's), (55, 25656), (57, 25668), (58, 25671), (68, 25707), (70, 25713), (72, 25725), (80, 25758), (84, 25776), (99, 25836), (100, 25842),

Gene: YoungHarleezy_28 Start: 20434, Stop: 20739, Start Num: 46

Candidate Starts for YoungHarleezy_28:

(Start: 46 @20434 has 56 MA's), (55, 20485), (73, 20551), (78, 20575), (82, 20593), (88, 20614), (90, 20620), (94, 20632),

Gene: Zartrosa_29 Start: 25236, Stop: 25604, Start Num: 28

Candidate Starts for Zartrosa_29:

(Start: 28 @25236 has 19 MA's), (58, 25341), (60, 25347), (70, 25383), (71, 25392), (74, 25404), (79, 25425), (82, 25440), (95, 25482), (99, 25506), (100, 25512), (110, 25545),

Gene: Zhuangyuan_25 Start: 18457, Stop: 18819, Start Num: 39

Candidate Starts for Zhuangyuan_25:

(Start: 39 @18457 has 37 MA's), (Start: 46 @18469 has 56 MA's), (60, 18541), (66, 18565), (79, 18619), (97, 18688), (99, 18700),

Gene: Zixiang_24 Start: 19055, Stop: 19387, Start Num: 39

Candidate Starts for Zixiang_24:

(Start: 39 @19055 has 37 MA's), (49, 19073), (57, 19130), (66, 19163), (80, 19220), (82, 19232), (99, 19298),