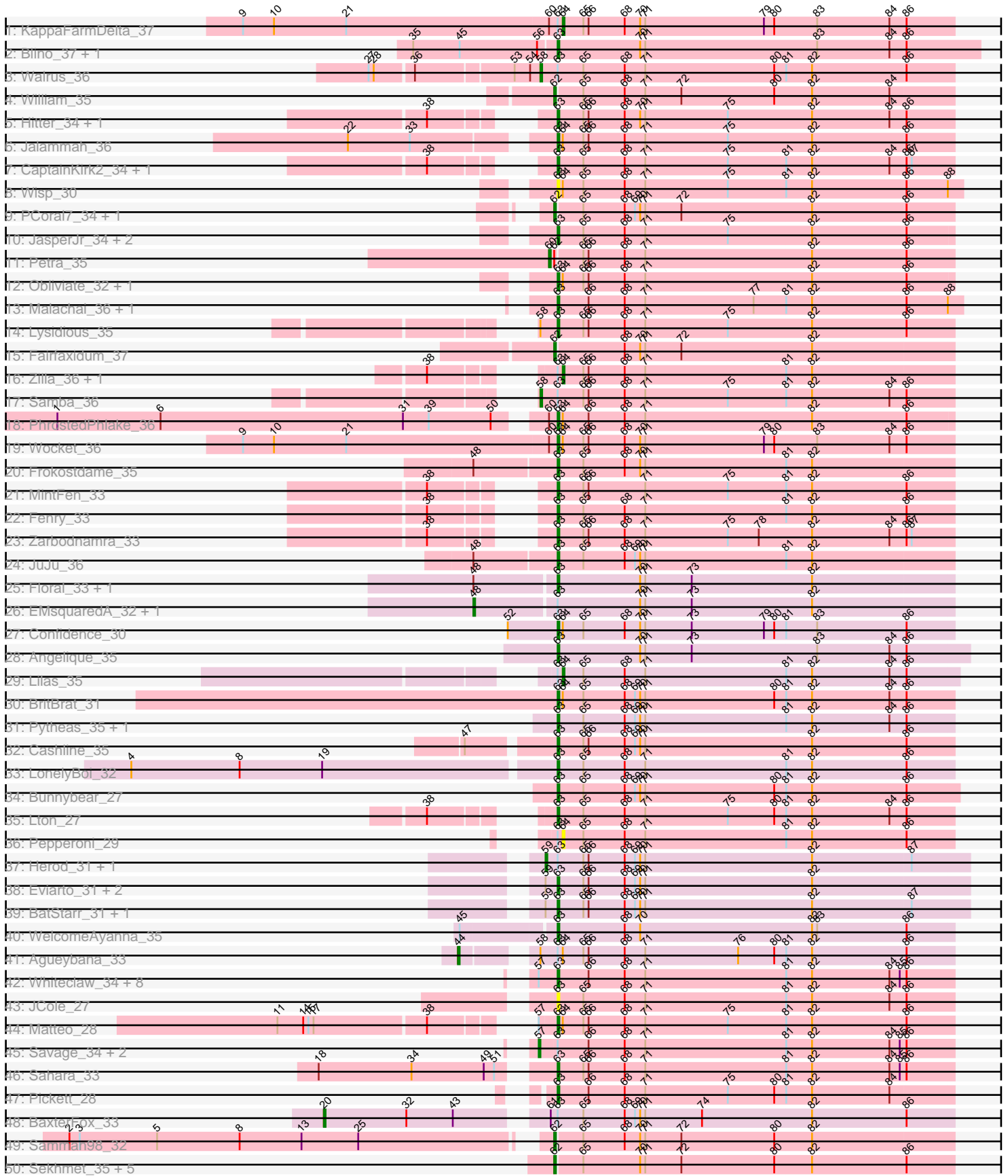
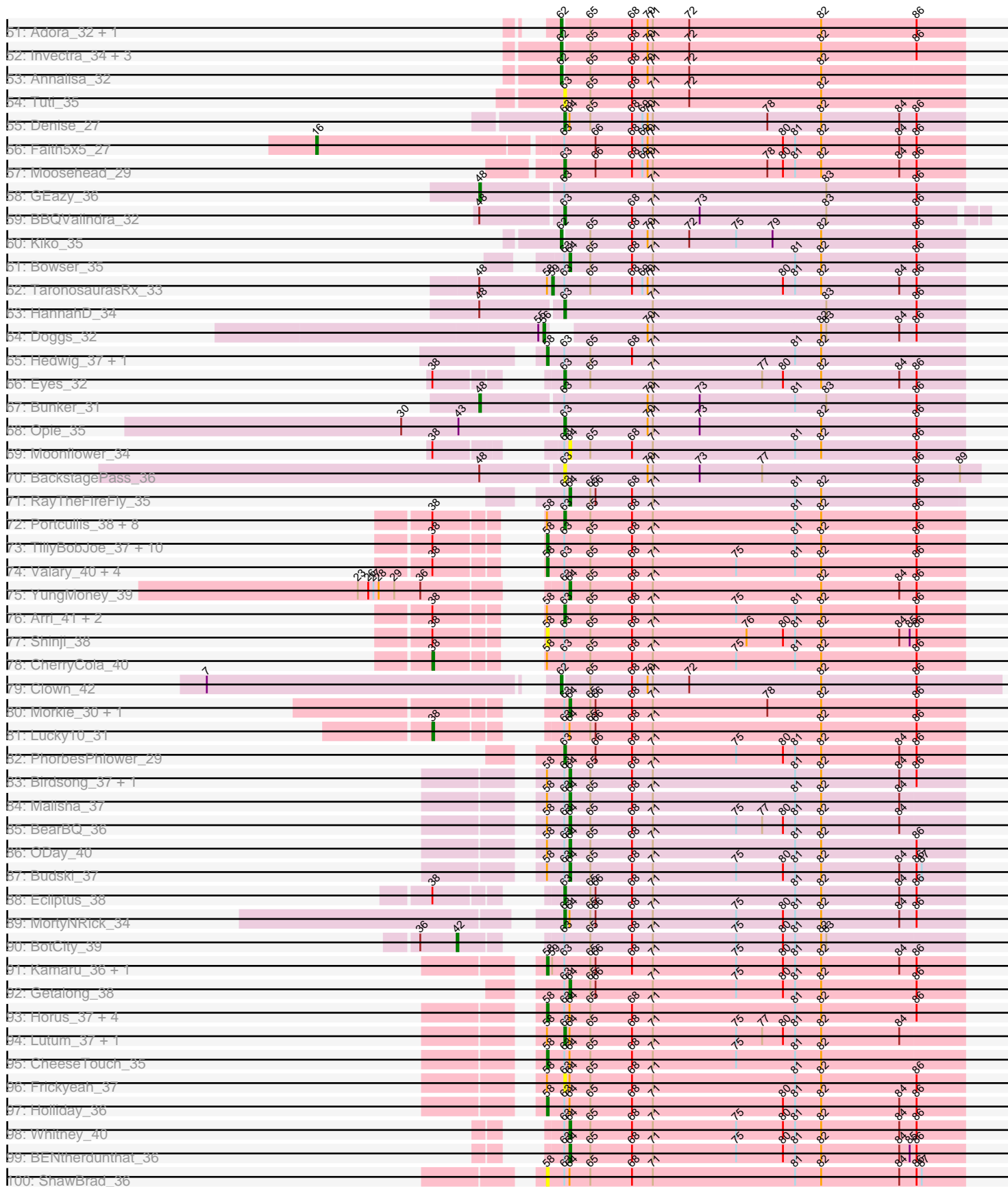


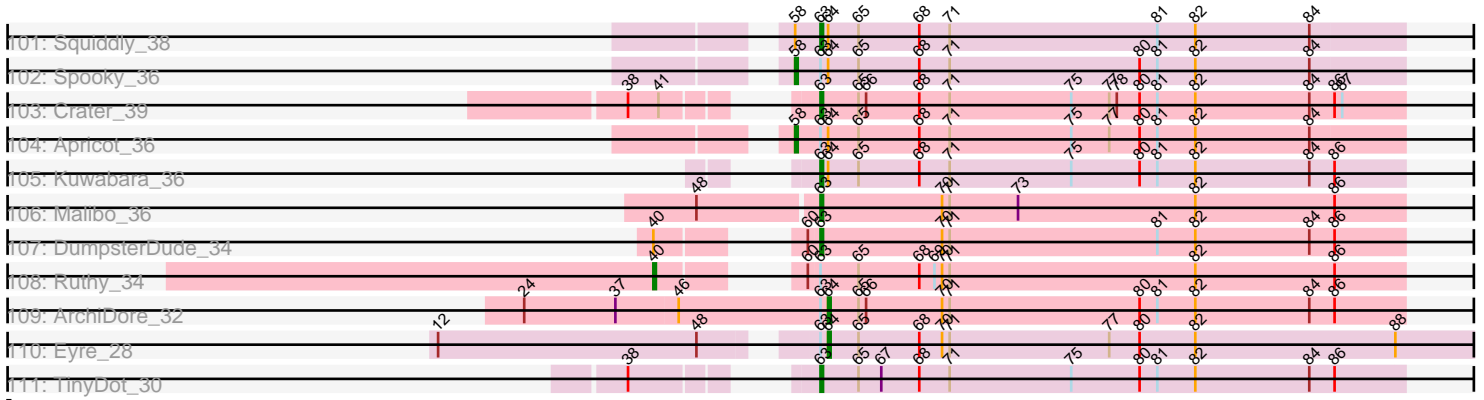
Pham 294461



Pham 294461



Pham 294461



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 294461 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294461 has 179 members, 13 are drafts.

Phages represented in each track:

- Track 1 : KappaFarmDelta_37
- Track 2 : Blino_37, CarolAnn_37
- Track 3 : Walrus_36
- Track 4 : William_35
- Track 5 : Hitter_34, Archis_36
- Track 6 : Jalammah_36
- Track 7 : CaptainKirk2_34, Delian_35
- Track 8 : Wisp_30
- Track 9 : PCoral7_34, Toast_34
- Track 10 : JasperJr_34, UmaThurman_31, Guacamole_34
- Track 11 : Petra_35
- Track 12 : Obliviate_32, ZiggyZoo_34
- Track 13 : Malachai_36, Begonia_36
- Track 14 : Lysidious_35
- Track 15 : Fairfaxidum_37
- Track 16 : Zilla_36, Barco_35
- Track 17 : Samba_36
- Track 18 : PhrostedPhlake_36
- Track 19 : Wocket_36
- Track 20 : Frokostdame_35
- Track 21 : MintFen_33
- Track 22 : Fenry_33
- Track 23 : Zarbodnamra_33
- Track 24 : JuJu_36
- Track 25 : Floral_33, Pollux_34
- Track 26 : EMSquaredA_32, Marteena_32
- Track 27 : Confidence_30
- Track 28 : Angelique_35
- Track 29 : Lilas_35
- Track 30 : BritBrat_31
- Track 31 : Pytheas_35, Jablanski_35
- Track 32 : Cashline_35
- Track 33 : LonelyBoi_32
- Track 34 : Bunnybear_27
- Track 35 : Lton_27
- Track 36 : Pepperoni_29
- Track 37 : Herod_31, Hugley_30

- Track 38 : Eviarto_31, Nymphadora_31, TimTam_31
- Track 39 : BatStarr_31, Bosnia_31
- Track 40 : WelcomeAyanna_35
- Track 41 : Agueybana_33
- Track 42 : Whiteclaw_34, Jalleen_33, Mocha12_34, Clap_34, Haley23_34, GemG_34, Cynthia_34, TuertoX_34, Gizermo_34
- Track 43 : JCole_27
- Track 44 : Matteo_28
- Track 45 : Savage_34, Sproutie_34, Ebert_35
- Track 46 : Sahara_33
- Track 47 : Pickett_28
- Track 48 : BaxterFox_33
- Track 49 : Samman98_32
- Track 50 : Sekhmet_35, DobbysSock_28, Dorito_30, MichaelScott_33, Beenie_28, Clark_33
- Track 51 : Adora_32, Powerball_35
- Track 52 : Invectra_34, Thimann_32, PhriskyACE_33, Mcklovin_32
- Track 53 : Annalisa_32
- Track 54 : Tuti_35
- Track 55 : Denise_27
- Track 56 : Faith5x5_27
- Track 57 : Moosehead_29
- Track 58 : GEazy_36
- Track 59 : BBQValindra_32
- Track 60 : Kiko_35
- Track 61 : Bowser_35
- Track 62 : TaronosaurusRx_33
- Track 63 : HannahD_34
- Track 64 : Doggs_32
- Track 65 : Hedwig_37, DirtyBoi_35
- Track 66 : Eyes_32
- Track 67 : Bunker_31
- Track 68 : Opie_35
- Track 69 : Moonflower_34
- Track 70 : BackstagePass_36
- Track 71 : RayTheFireFly_35
- Track 72 : Portcullis_38, PullumCavea_37, Jambalaya_37, Egi03_38, Phlop_37, Fireball_38, CoveyB_40, Togo_37, Savbucketdawg_37
- Track 73 : TillyBobJoe_37, Gezellig_37, Wizard_37, Halo3_38, Twister6_40, KimmyK_39, Evamon_37, Nubi_38, Danyall_40, Salvador_37, SmokingBunny_37
- Track 74 : Valary_40, Barb_40, PinkCoffee_40, ClamChowder_40, RogerDodger_41
- Track 75 : YungMoney_39
- Track 76 : Arri_41, VanDeWege_41, Fugax_41
- Track 77 : Shinji_38
- Track 78 : CherryCola_40
- Track 79 : Clown_42
- Track 80 : Morkie_30, OneDirection_28
- Track 81 : Lucky10_31
- Track 82 : PhorbesPhlower_29
- Track 83 : Birdsong_37, Phabuloso_34
- Track 84 : Malisha_37
- Track 85 : BearBQ_36
- Track 86 : ODay_40

- Track 87 : Budski_37
- Track 88 : Ecliptus_38
- Track 89 : MortyNRick_34
- Track 90 : BotCity_39
- Track 91 : Kamaru_36, LitninMcQueen_35
- Track 92 : Getalong_38
- Track 93 : Horus_37, Phistory_37, Asapag_37, Leroy_37, Periwinkle_40
- Track 94 : Lutum_37, Kenna_36
- Track 95 : CheeseTouch_35
- Track 96 : Frickyeah_37
- Track 97 : Holliday_36
- Track 98 : Whitney_40
- Track 99 : BENtherdunthat_36
- Track 100 : ShawBrad_36
- Track 101 : Squiddly_38
- Track 102 : Spooky_36
- Track 103 : Crater_39
- Track 104 : Apricot_36
- Track 105 : Kuwabara_36
- Track 106 : Malibo_36
- Track 107 : DumpsterDude_34
- Track 108 : Ruthy_34
- Track 109 : ArchiDore_32
- Track 110 : Eyre_28
- Track 111 : TinyDot_30

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

The start number called the most often in the published annotations is 63, it was called in 79 of the 166 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Angelique_35, Archis_36, Arri_41, BBQValindra_32, BackstagePass_36, BatStarr_31, Begonia_36, Blino_37, Bosnia_31, BritBrat_31, Bunnybear_27, CaptainKirk2_34, CarolAnn_37, Cashline_35, Clap_34, Confidence_30, CoveyB_40, Crater_39, Cynthia_34, Delian_35, Denise_27, DumpsterDude_34, Ecliptus_38, Egi03_38, Eviarto_31, Eyes_32, Fenry_33, Fireball_38, Floral_33, Frickyeah_37, Frokostdame_35, Fugax_41, GemG_34, Gizermo_34, Guacamole_34, Haley23_34, HannahD_34, Hitter_34, JCole_27, Jablanski_35, Jalammah_36, Jalleen_33, Jambalaya_37, JasperJr_34, JuJu_36, Kenna_36, Kuwabara_36, LonelyBoi_32, Lton_27, Lutum_37, Lysidious_35, Malachai_36, Malibo_36, Matteo_28, MintFen_33, Mocha12_34, Moosehead_29, MortyNRick_34, Nymphadora_31, Obliviate_32, Opie_35, Phlop_37, PhorbPhlower_29, PhrostedPhlake_36, Pickett_28, Pollux_34, Portcullis_38, PullumCavea_37, Pytheas_35, Sahara_33, Savbucketdawg_37, Squiddly_38, TimTam_31, TinyDot_30, Togo_37, TuertoX_34, Tuti_35, UmaThurman_31, VanDeWege_41, WelcomeAyanna_35, Whiteclaw_34, Wisp_30, Wocket_36, Zarbodnamra_33, ZiggyZoo_34,

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

- Agueybana_33, Apricot_36, ArchiDore_32, Asapag_37, BENtherdunthat_36, Barb_40, Barco_35, BaxterFox_33, BearBQ_36, Birdsong_37, BotCity_39, Bowser_35, Budski_37, Bunker_31, CheeseTouch_35, CherryCola_40, ClamChowder_40, Danyall_40, DirtyBoi_35, EMSquaredA_32, Ebert_35, Evamon_37, Eyre_28, Faith5x5_27, GEazy_36, Getalong_38, Gezellig_37, Halo3_38, Hedwig_37, Herod_31, Holliday_36, Horus_37, Hugley_30, Kamaru_36, KappaFarmDelta_37, KimmyK_39, Leroy_37, Lilas_35, LitninMcQueen_35, Lucky10_31, Malisha_37, Marteena_32, Moonflower_34, Morkie_30, Nubi_38, ODay_40, OneDirection_28, Pepperoni_29, Periwinkle_40, Phabuloso_34, Phistory_37, PinkCoffee_40, RayTheFireFly_35, RogerDodger_41, Ruthy_34, Salvador_37, Samba_36, Savage_34, ShawBrad_36, Shinji_38, SmokingBunny_37, Spooky_36, Sproutie_34, TaronosaurusRx_33, TillyBobJoe_37, Twister6_40, Valary_40, Walrus_36, Whitney_40, Wizard_37, YungMoney_39, Zilla_36,

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

- Adora_32, Annalisa_32, Beenie_28, Clark_33, Clown_42, DobbysSock_28, Doggs_32, Dorito_30, Fairfaxidum_37, Invectra_34, Kiko_35, Mcklovin_32, MichaelScott_33, PCoral7_34, Petra_35, PhriskyACE_33, Powerball_35, Samman98_32, Sekhmet_35, Thimann_32, Toast_34, William_35,

Summary by start number:

Start 16:

- Found in 1 of 179 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_27 (CZ6),

Start 20:

- Found in 1 of 179 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaxterFox_33 (CZ3),

Start 38:

- Found in 47 of 179 (26.3%) of genes in pham
- Manual Annotations of this start: 2 of 166
- Called 4.3% of time when present
- Phage (with cluster) where this start called: CherryCola_40 (DC1), Lucky10_31 (DH),

Start 40:

- Found in 2 of 179 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ruthy_34 (DW),

Start 42:

- Found in 1 of 179 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BotCity_39 (DN),

Start 44:

- Found in 1 of 179 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Agueybana_33 (CZ1),

Start 48:

- Found in 14 of 179 (7.8%) of genes in pham
- Manual Annotations of this start: 4 of 166
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Bunker_31 (DB), EMSquaredA_32 (CY1), GEazy_36 (DB), Marteenaa_32 (CY1),

Start 56:

- Found in 3 of 179 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Doggs_32 (DB),

Start 57:

- Found in 13 of 179 (7.3%) of genes in pham
- Manual Annotations of this start: 3 of 166
- Called 23.1% of time when present
- Phage (with cluster) where this start called: Ebert_35 (CZ2), Savage_34 (CZ2), Sproutie_34 (CZ2),

Start 58:

- Found in 59 of 179 (33.0%) of genes in pham
- Manual Annotations of this start: 31 of 166
- Called 55.9% of time when present
- Phage (with cluster) where this start called: Apricot_36 (DN3), Asapag_37 (DN1), Barb_40 (DC1), CheeseTouch_35 (DN1), ClamChowder_40 (DC1), Danyall_40 (DC1), DirtyBoi_35 (DB), Evamon_37 (DC1), Gezellig_37 (DC1), Halo3_38 (DC1), Hedwig_37 (DB), Holliday_36 (DN1), Horus_37 (DN1), Kamaru_36 (DN1), KimmyK_39 (DC1), Leroy_37 (DN1), LitninMcQueen_35 (DN1), Nubi_38 (DC1), Periwinkle_40 (DN1), Phistory_37 (DN1), PinkCoffee_40 (DC1), RogerDodger_41 (DC1), Salvador_37 (DC1), Samba_36 (CV), ShawBrad_36 (DN1), Shinji_38 (DC1), SmokingBunny_37 (DC1), Spooky_36 (DN2), TillyBobJoe_37 (DC1), Twister6_40 (DC1), Valary_40 (DC1), Walrus_36 (CV), Wizard_37 (DC1),

Start 59:

- Found in 10 of 179 (5.6%) of genes in pham
- Manual Annotations of this start: 2 of 166
- Called 30.0% of time when present
- Phage (with cluster) where this start called: Herod_31 (CZ1), Hugley_30 (CZ1), TaronosaurusRx_33 (DB),

Start 60:

- Found in 6 of 179 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 166
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Petra_35 (CV),

Start 62:

- Found in 21 of 179 (11.7%) of genes in pham
- Manual Annotations of this start: 19 of 166
- Called 95.2% of time when present
- Phage (with cluster) where this start called: Adora_32 (CZ4), Annalisa_32 (CZ4), Beenie_28 (CZ4), Clark_33 (CZ4), Clown_42 (DC2), DobbysSock_28 (CZ4), Dorito_30 (CZ4), Fairfaxidum_37 (CV), Invectra_34 (CZ4), Kiko_35 (DB), Mcklovin_32 (CZ4), MichaelScott_33 (CZ4), PCoral7_34 (CV), PhriskyACE_33 (CZ4), Powerball_35 (CZ4), Samman98_32 (CZ4), Sekhmet_35 (CZ4), Thimann_32 (CZ4), Toast_34 (CV), William_35 (CV),

Start 63:

- Found in 157 of 179 (87.7%) of genes in pham
- Manual Annotations of this start: 79 of 166
- Called 54.1% of time when present
- Phage (with cluster) where this start called: Angelique_35 (CY1), Archis_36 (CV), Arri_41 (DC1), BBQValindra_32 (DB), BackstagePass_36 (DB), BatStarr_31 (CZ1), Begonia_36 (CV), Blino_37 (CV), Bosnia_31 (CZ1), BritBrat_31 (CY2), Bunnybear_27 (CZ), CaptainKirk2_34 (CV), CarolAnn_37 (CV), Cashline_35 (CY6), Clap_34 (CZ2), Confidence_30 (CY1), CoveyB_40 (DC1), Crater_39 (DN3), Cynthia_34 (CZ2), Delian_35 (CV), Denise_27 (CZ5), DumpsterDude_34 (DW), Ecliptus_38 (DN), Egi03_38 (DC1), Eviarto_31 (CZ1), Eyes_32 (DB), Fenry_33 (CV), Fireball_38 (DC1), Floral_33 (CY1), Frickyeah_37 (DN1), Frokostdame_35 (CV), Fugax_41 (DC1), GemG_34 (CZ2), Gizermo_34 (CZ2), Guacamole_34 (CV), Haley23_34 (CZ2), HannahD_34 (DB), Hitter_34 (CV), JCole_27 (CZ2), Jablanski_35 (CY3), Jalammah_36 (CV), Jalleen_33 (CZ2), Jambalaya_37 (DC1), JasperJr_34 (CV), JuJu_36 (CV), Kenna_36 (DN1), Kuwabara_36 (DN4), LonelyBoi_32 (CY7), Lton_27 (CZ), Lutum_37 (DN1), Lysidious_35 (CV), Malachai_36 (CV), Malibo_36 (DW), Matteo_28 (CZ2), MintFen_33 (CV), Mocha12_34 (CZ2), Moosehead_29 (CZ6), MortyNRick_34 (DN), Nymphadora_31 (CZ1), Obliviate_32 (CV), Opie_35 (DB), Phlop_37 (DC1), PhorbesPhlower_29 (DH), PhrostedPhlake_36 (CV), Pickett_28 (CZ2), Pollux_34 (CY1), Portcullis_38 (DC1), PullumCavea_37 (DC1), Pytheas_35 (CY3), Sahara_33 (CZ2), Savbucketdawg_37 (DC1), Squiddly_38 (DN2), TimTam_31 (CZ1), TinyDot_30 (singleton), Togo_37 (DC1), TuertoX_34 (CZ2), Tuti_35 (CZ4), UmaThurman_31 (CV), VanDeWege_41 (DC1), WelcomeAyanna_35 (CZ1), Whiteclaw_34 (CZ2), Wisp_30 (CV), Wocket_36 (CV), Zarbodnamra_33 (CV), ZiggyZoo_34 (CV),

Start 64:

- Found in 50 of 179 (27.9%) of genes in pham
- Manual Annotations of this start: 19 of 166
- Called 44.0% of time when present
- Phage (with cluster) where this start called: ArchiDore_32 (DW), BENtherdunthat_36 (DN1), Barco_35 (CV), BearBQ_36 (DN), Birdsong_37 (DN), Bowser_35 (DB), Budski_37 (DN), Eyre_28 (singleton), Getalong_38 (DN1), KappaFarmDelta_37 (CV), Lilas_35 (CY1), Malisha_37 (DN), Moonflower_34 (DB), Morkie_30 (DH), ODay_40 (DN), OneDirection_28 (CZ6), Pepperoni_29 (CZ), Phabuloso_34 (DN1), RayTheFireFly_35 (DB), Whitney_40 (DN1), YungMoney_39 (DC1), Zilla_36 (CV),

Summary by clusters:

There are 24 clusters represented in this pham: DN, singleton, DH, CZ2, CZ3, CZ1, CZ6, CZ4, CZ5, DW, DN4, DN1, DN3, DN2, CY3, CY2, CY1, CY7, CY6, DB, CZ,

DC2, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 58 was manually annotated 2 times for cluster CV.
- Start number 60 was manually annotated 1 time for cluster CV.
- Start number 62 was manually annotated 4 times for cluster CV.
- Start number 63 was manually annotated 22 times for cluster CV.
- Start number 64 was manually annotated 2 times for cluster CV.

Info for manual annotations of cluster CY1:

- Start number 48 was manually annotated 2 times for cluster CY1.
- Start number 63 was manually annotated 4 times for cluster CY1.
- Start number 64 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 63 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:

- Start number 63 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY6:

- Start number 63 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:

- Start number 63 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:

- Start number 63 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 44 was manually annotated 1 time for cluster CZ1.
- Start number 59 was manually annotated 1 time for cluster CZ1.
- Start number 63 was manually annotated 6 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 57 was manually annotated 3 times for cluster CZ2.
- Start number 63 was manually annotated 11 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 20 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 62 was manually annotated 13 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 63 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 16 was manually annotated 1 time for cluster CZ6.
- Start number 63 was manually annotated 1 time for cluster CZ6.
- Start number 64 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DB:

- Start number 48 was manually annotated 2 times for cluster DB.
- Start number 56 was manually annotated 1 time for cluster DB.
- Start number 58 was manually annotated 2 times for cluster DB.
- Start number 59 was manually annotated 1 time for cluster DB.
- Start number 62 was manually annotated 1 time for cluster DB.
- Start number 63 was manually annotated 4 times for cluster DB.
- Start number 64 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster DC1:

- Start number 38 was manually annotated 1 time for cluster DC1.
- Start number 58 was manually annotated 16 times for cluster DC1.
- Start number 63 was manually annotated 12 times for cluster DC1.
- Start number 64 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 62 was manually annotated 1 time for cluster DC2.

Info for manual annotations of cluster DH:

- Start number 38 was manually annotated 1 time for cluster DH.
- Start number 63 was manually annotated 1 time for cluster DH.
- Start number 64 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 42 was manually annotated 1 time for cluster DN.
- Start number 63 was manually annotated 2 times for cluster DN.
- Start number 64 was manually annotated 5 times for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 58 was manually annotated 9 times for cluster DN1.
- Start number 63 was manually annotated 2 times for cluster DN1.
- Start number 64 was manually annotated 4 times for cluster DN1.

Info for manual annotations of cluster DN2:

- Start number 58 was manually annotated 1 time for cluster DN2.
- Start number 63 was manually annotated 1 time for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 58 was manually annotated 1 time for cluster DN3.
- Start number 63 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster DN4:

- Start number 63 was manually annotated 1 time for cluster DN4.

Info for manual annotations of cluster DW:

- Start number 40 was manually annotated 1 time for cluster DW.
- Start number 63 was manually annotated 2 times for cluster DW.
- Start number 64 was manually annotated 1 time for cluster DW.

Gene Information:

Gene: Adora_32 Start: 28689, Stop: 28462, Start Num: 62

Candidate Starts for Adora_32:

(Start: 62 @28689 has 19 MA's), (65, 28674), (68, 28650), (70, 28641), (71, 28638), (72, 28617), (82, 28542), (86, 28488),

Gene: Agueybana_33 Start: 28613, Stop: 28344, Start Num: 44

Candidate Starts for Agueybana_33:

(Start: 44 @28613 has 1 MA's), (Start: 58 @28580 has 31 MA's), (Start: 63 @28571 has 79 MA's), (Start: 64 @28568 has 19 MA's), (65, 28556), (66, 28553), (68, 28532), (71, 28520), (76, 28466), (80, 28445), (81, 28439), (82, 28424), (86, 28370),

Gene: Angelique_35 Start: 28945, Stop: 28709, Start Num: 63

Candidate Starts for Angelique_35:

(Start: 63 @28945 has 79 MA's), (70, 28897), (71, 28894), (73, 28867), (83, 28795), (84, 28753), (86, 28744),

Gene: Annalisa_32 Start: 26879, Stop: 26652, Start Num: 62

Candidate Starts for Annalisa_32:

(Start: 62 @26879 has 19 MA's), (65, 26864), (68, 26840), (70, 26831), (71, 26828), (72, 26807), (82, 26732),

Gene: Apricot_36 Start: 28503, Stop: 28267, Start Num: 58

Candidate Starts for Apricot_36:

(Start: 58 @28503 has 31 MA's), (Start: 63 @28494 has 79 MA's), (Start: 64 @28491 has 19 MA's), (65, 28479), (68, 28455), (71, 28443), (75, 28395), (77, 28380), (80, 28368), (81, 28362), (82, 28347), (84, 28302),

Gene: ArchiDore_32 Start: 28535, Stop: 28311, Start Num: 64

Candidate Starts for ArchiDore_32:

(24, 28652), (37, 28616), (46, 28592), (Start: 63 @28538 has 79 MA's), (Start: 64 @28535 has 19 MA's), (65, 28523), (66, 28520), (70, 28490), (71, 28487), (80, 28412), (81, 28406), (82, 28391), (84, 28346), (86, 28337),

Gene: Archis_36 Start: 29314, Stop: 29087, Start Num: 63

Candidate Starts for Archis_36:

(Start: 38 @29359 has 2 MA's), (Start: 63 @29314 has 79 MA's), (65, 29299), (66, 29296), (68, 29275), (70, 29266), (71, 29263), (75, 29215), (82, 29167), (84, 29122), (86, 29113),

Gene: Arri_41 Start: 33726, Stop: 33499, Start Num: 63

Candidate Starts for Arri_41:

(Start: 38 @33771 has 2 MA's), (Start: 58 @33735 has 31 MA's), (Start: 63 @33726 has 79 MA's), (65, 33711), (68, 33687), (71, 33675), (75, 33627), (81, 33594), (82, 33579), (86, 33525),

Gene: Asapag_37 Start: 30095, Stop: 29859, Start Num: 58

Candidate Starts for Asapag_37:

(Start: 58 @30095 has 31 MA's), (Start: 63 @30086 has 79 MA's), (Start: 64 @30083 has 19 MA's), (65, 30071), (68, 30047), (71, 30035), (81, 29954), (82, 29939), (86, 29885),

Gene: BBQValindra_32 Start: 27582, Stop: 27346, Start Num: 63

Candidate Starts for BBQValindra_32:

(Start: 48 @27627 has 4 MA's), (Start: 63 @27582 has 79 MA's), (68, 27543), (71, 27531), (73, 27504), (83, 27432), (86, 27381),

Gene: BENtherdunthat_36 Start: 28355, Stop: 28131, Start Num: 64

Candidate Starts for BENtherdunthat_36:

(Start: 63 @28358 has 79 MA's), (Start: 64 @28355 has 19 MA's), (65, 28343), (68, 28319), (71, 28307), (75, 28259), (80, 28232), (81, 28226), (82, 28211), (84, 28166), (85, 28160), (86, 28157),

Gene: BackstagePass_36 Start: 29151, Stop: 28915, Start Num: 63

Candidate Starts for BackstagePass_36:

(Start: 48 @29196 has 4 MA's), (Start: 63 @29151 has 79 MA's), (70, 29103), (71, 29100), (73, 29073), (77, 29037), (86, 28950), (89, 28926),

Gene: Barb_40 Start: 33752, Stop: 33516, Start Num: 58

Candidate Starts for Barb_40:

(Start: 38 @33788 has 2 MA's), (Start: 58 @33752 has 31 MA's), (Start: 63 @33743 has 79 MA's), (65, 33728), (68, 33704), (71, 33692), (75, 33644), (81, 33611), (82, 33596), (86, 33542),

Gene: Barco_35 Start: 29527, Stop: 29303, Start Num: 64

Candidate Starts for Barco_35:

(Start: 38 @29575 has 2 MA's), (Start: 63 @29530 has 79 MA's), (Start: 64 @29527 has 19 MA's), (65, 29515), (66, 29512), (68, 29491), (71, 29479), (81, 29398), (82, 29383),

Gene: BatStarr_31 Start: 28844, Stop: 28608, Start Num: 63

Candidate Starts for BatStarr_31:

(Start: 59 @28850 has 2 MA's), (Start: 63 @28844 has 79 MA's), (65, 28829), (66, 28826), (68, 28805), (69, 28799), (70, 28796), (71, 28793), (82, 28697), (87, 28640),

Gene: BaxterFox_33 Start: 29026, Stop: 28679, Start Num: 20

Candidate Starts for BaxterFox_33:

(Start: 20 @29026 has 1 MA's), (32, 28978), (43, 28951), (61, 28909), (Start: 63 @28906 has 79 MA's), (65, 28891), (68, 28867), (69, 28861), (70, 28858), (71, 28855), (74, 28822), (82, 28759), (86, 28705),

Gene: BearBQ_36 Start: 29718, Stop: 29494, Start Num: 64

Candidate Starts for BearBQ_36:

(Start: 58 @29730 has 31 MA's), (Start: 63 @29721 has 79 MA's), (Start: 64 @29718 has 19 MA's), (65, 29706), (68, 29682), (71, 29670), (75, 29622), (77, 29607), (80, 29595), (81, 29589), (82, 29574), (84, 29529),

Gene: Beenie_28 Start: 26674, Stop: 26447, Start Num: 62

Candidate Starts for Beenie_28:

(Start: 62 @26674 has 19 MA's), (65, 26659), (70, 26626), (71, 26623), (72, 26602), (80, 26548), (82, 26527), (86, 26473),

Gene: Begonia_36 Start: 30625, Stop: 30392, Start Num: 63

Candidate Starts for Begonia_36:

(Start: 63 @30625 has 79 MA's), (66, 30607), (68, 30586), (71, 30574), (77, 30511), (81, 30493), (82, 30478), (86, 30424), (88, 30400),

Gene: Birdsong_37 Start: 29810, Stop: 29586, Start Num: 64

Candidate Starts for Birdsong_37:

(Start: 58 @29822 has 31 MA's), (Start: 63 @29813 has 79 MA's), (Start: 64 @29810 has 19 MA's), (65, 29798), (68, 29774), (71, 29762), (81, 29681), (82, 29666), (84, 29621), (86, 29612),

Gene: Blino_37 Start: 31465, Stop: 31223, Start Num: 63

Candidate Starts for Blino_37:

(35, 31546), (45, 31519), (Start: 56 @31474 has 1 MA's), (Start: 63 @31465 has 79 MA's), (70, 31417), (71, 31414), (83, 31315), (84, 31273), (86, 31264),

Gene: Bosnia_31 Start: 28844, Stop: 28608, Start Num: 63

Candidate Starts for Bosnia_31:

(Start: 59 @28850 has 2 MA's), (Start: 63 @28844 has 79 MA's), (65, 28829), (66, 28826), (68, 28805), (69, 28799), (70, 28796), (71, 28793), (82, 28697), (87, 28640),

Gene: BotCity_39 Start: 29685, Stop: 29425, Start Num: 42

Candidate Starts for BotCity_39:

(36, 29706), (Start: 42 @29685 has 1 MA's), (Start: 63 @29652 has 79 MA's), (65, 29637), (68, 29613), (71, 29601), (75, 29553), (80, 29526), (81, 29520), (82, 29505), (83, 29502),

Gene: Bowser_35 Start: 28606, Stop: 28382, Start Num: 64

Candidate Starts for Bowser_35:

(Start: 63 @28609 has 79 MA's), (Start: 64 @28606 has 19 MA's), (65, 28594), (68, 28570), (71, 28558), (81, 28477), (82, 28462), (86, 28408),

Gene: BritBrat_31 Start: 29502, Stop: 29275, Start Num: 63

Candidate Starts for BritBrat_31:

(Start: 63 @29502 has 79 MA's), (Start: 64 @29499 has 19 MA's), (65, 29487), (68, 29463), (69, 29457), (70, 29454), (71, 29451), (80, 29376), (81, 29370), (82, 29355), (84, 29310), (86, 29301),

Gene: Budski_37 Start: 30045, Stop: 29821, Start Num: 64

Candidate Starts for Budski_37:

(Start: 58 @30057 has 31 MA's), (Start: 63 @30048 has 79 MA's), (Start: 64 @30045 has 19 MA's), (65, 30033), (68, 30009), (71, 29997), (75, 29949), (80, 29922), (81, 29916), (82, 29901), (84, 29856), (86, 29847), (87, 29844),

Gene: Bunker_31 Start: 27927, Stop: 27655, Start Num: 48

Candidate Starts for Bunker_31:

(Start: 48 @27927 has 4 MA's), (Start: 63 @27882 has 79 MA's), (70, 27834), (71, 27831), (73, 27804), (81, 27750), (83, 27732), (86, 27681),

Gene: Bunnybear_27 Start: 27053, Stop: 26823, Start Num: 63

Candidate Starts for Bunnybear_27:

(Start: 63 @27053 has 79 MA's), (65, 27038), (68, 27014), (69, 27008), (70, 27005), (71, 27002), (80, 26927), (81, 26921), (82, 26906), (86, 26852),

Gene: CaptainKirk2_34 Start: 28619, Stop: 28392, Start Num: 63

Candidate Starts for CaptainKirk2_34:

(Start: 38 @28664 has 2 MA's), (Start: 63 @28619 has 79 MA's), (65, 28604), (68, 28580), (71, 28568), (75, 28520), (81, 28487), (82, 28472), (84, 28427), (86, 28418), (87, 28415),

Gene: CarolAnn_37 Start: 31464, Stop: 31222, Start Num: 63

Candidate Starts for CarolAnn_37:

(35, 31545), (45, 31518), (Start: 56 @31473 has 1 MA's), (Start: 63 @31464 has 79 MA's), (70, 31416), (71, 31413), (83, 31314), (84, 31272), (86, 31263),

Gene: Cashline_35 Start: 29499, Stop: 29272, Start Num: 63

Candidate Starts for Cashline_35:

(47, 29544), (Start: 63 @29499 has 79 MA's), (65, 29484), (66, 29481), (68, 29460), (69, 29454), (70, 29451), (71, 29448), (82, 29352), (86, 29298),

Gene: CheeseTouch_35 Start: 26657, Stop: 26421, Start Num: 58

Candidate Starts for CheeseTouch_35:

(Start: 58 @26657 has 31 MA's), (Start: 63 @26648 has 79 MA's), (Start: 64 @26645 has 19 MA's), (65, 26633), (68, 26609), (71, 26597), (75, 26549), (81, 26516), (82, 26501),

Gene: CherryCola_40 Start: 34544, Stop: 34272, Start Num: 38

Candidate Starts for CherryCola_40:

(Start: 38 @34544 has 2 MA's), (Start: 58 @34508 has 31 MA's), (Start: 63 @34499 has 79 MA's), (65, 34484), (68, 34460), (71, 34448), (75, 34400), (81, 34367), (82, 34352), (86, 34298),

Gene: ClamChowder_40 Start: 33752, Stop: 33516, Start Num: 58

Candidate Starts for ClamChowder_40:

(Start: 38 @33788 has 2 MA's), (Start: 58 @33752 has 31 MA's), (Start: 63 @33743 has 79 MA's), (65, 33728), (68, 33704), (71, 33692), (75, 33644), (81, 33611), (82, 33596), (86, 33542),

Gene: Clap_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Clap_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Clark_33 Start: 26491, Stop: 26264, Start Num: 62

Candidate Starts for Clark_33:

(Start: 62 @26491 has 19 MA's), (65, 26476), (70, 26443), (71, 26440), (72, 26419), (80, 26365), (82, 26344), (86, 26290),

Gene: Clown_42 Start: 35272, Stop: 35024, Start Num: 62

Candidate Starts for Clown_42:

(7, 35458), (Start: 62 @35272 has 19 MA's), (65, 35257), (68, 35233), (70, 35224), (71, 35221), (72, 35200), (82, 35125), (86, 35071),

Gene: Confidence_30 Start: 26910, Stop: 26683, Start Num: 63

Candidate Starts for Confidence_30:

(52, 26937), (Start: 63 @26910 has 79 MA's), (Start: 64 @26907 has 19 MA's), (65, 26895), (68, 26871), (70, 26862), (71, 26859), (73, 26832), (79, 26790), (80, 26784), (81, 26778), (83, 26760), (86, 26709),

Gene: CoveyB_40 Start: 33543, Stop: 33316, Start Num: 63

Candidate Starts for CoveyB_40:

(Start: 38 @33588 has 2 MA's), (Start: 58 @33552 has 31 MA's), (Start: 63 @33543 has 79 MA's), (65, 33528), (68, 33504), (71, 33492), (81, 33411), (82, 33396), (86, 33342),

Gene: Crater_39 Start: 29158, Stop: 28931, Start Num: 63

Candidate Starts for Crater_39:

(Start: 38 @29203 has 2 MA's), (41, 29191), (Start: 63 @29158 has 79 MA's), (65, 29143), (66, 29140), (68, 29119), (71, 29107), (75, 29059), (77, 29044), (78, 29041), (80, 29032), (81, 29026), (82, 29011), (84, 28966), (86, 28957), (87, 28954),

Gene: Cynthia_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Cynthia_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Danyall_40 Start: 33554, Stop: 33318, Start Num: 58

Candidate Starts for Danyall_40:

(Start: 38 @33590 has 2 MA's), (Start: 58 @33554 has 31 MA's), (Start: 63 @33545 has 79 MA's), (65, 33530), (68, 33506), (71, 33494), (81, 33413), (82, 33398), (86, 33344),

Gene: Delian_35 Start: 28617, Stop: 28390, Start Num: 63

Candidate Starts for Delian_35:

(Start: 38 @28662 has 2 MA's), (Start: 63 @28617 has 79 MA's), (65, 28602), (68, 28578), (71, 28566), (75, 28518), (81, 28485), (82, 28470), (84, 28425), (86, 28416), (87, 28413),

Gene: Denise_27 Start: 24591, Stop: 24364, Start Num: 63

Candidate Starts for Denise_27:

(Start: 63 @24591 has 79 MA's), (Start: 64 @24588 has 19 MA's), (65, 24576), (68, 24552), (69, 24546), (70, 24543), (71, 24540), (78, 24474), (82, 24444), (84, 24399), (86, 24390),

Gene: DirtyBoi_35 Start: 29162, Stop: 28926, Start Num: 58

Candidate Starts for DirtyBoi_35:

(Start: 58 @29162 has 31 MA's), (Start: 63 @29153 has 79 MA's), (65, 29138), (68, 29114), (71, 29102), (81, 29021), (82, 29006),

Gene: DobbysSock_28 Start: 25413, Stop: 25186, Start Num: 62

Candidate Starts for DobbysSock_28:

(Start: 62 @25413 has 19 MA's), (65, 25398), (70, 25365), (71, 25362), (72, 25341), (80, 25287), (82, 25266), (86, 25212),

Gene: Doggs_32 Start: 28809, Stop: 28585, Start Num: 56

Candidate Starts for Doggs_32:

(55, 28812), (Start: 56 @28809 has 1 MA's), (70, 28764), (71, 28761), (82, 28665), (83, 28662), (84, 28620), (86, 28611),

Gene: Dorito_30 Start: 25057, Stop: 24830, Start Num: 62

Candidate Starts for Dorito_30:

(Start: 62 @25057 has 19 MA's), (65, 25042), (70, 25009), (71, 25006), (72, 24985), (80, 24931), (82, 24910), (86, 24856),

Gene: DumpsterDude_34 Start: 31000, Stop: 30773, Start Num: 63

Candidate Starts for DumpsterDude_34:

(Start: 40 @31036 has 1 MA's), (Start: 60 @31003 has 1 MA's), (Start: 63 @31000 has 79 MA's), (70, 30952), (71, 30949), (81, 30868), (82, 30853), (84, 30808), (86, 30799),

Gene: EMSquaredA_32 Start: 27060, Stop: 26788, Start Num: 48

Candidate Starts for EMSquaredA_32:

(Start: 48 @27060 has 4 MA's), (Start: 63 @27015 has 79 MA's), (70, 26967), (71, 26964), (73, 26937), (82, 26868),

Gene: Ebert_35 Start: 26481, Stop: 26245, Start Num: 57

Candidate Starts for Ebert_35:

(Start: 57 @26481 has 3 MA's), (Start: 63 @26472 has 79 MA's), (66, 26454), (68, 26433), (71, 26421), (81, 26340), (82, 26325), (84, 26280), (85, 26274), (86, 26271),

Gene: Ecliptus_38 Start: 30614, Stop: 30387, Start Num: 63

Candidate Starts for Ecliptus_38:

(Start: 38 @30659 has 2 MA's), (Start: 63 @30614 has 79 MA's), (65, 30599), (66, 30596), (68, 30575), (71, 30563), (81, 30482), (82, 30467), (84, 30422), (86, 30413),

Gene: Egi03_38 Start: 33223, Stop: 32996, Start Num: 63

Candidate Starts for Egi03_38:

(Start: 38 @33268 has 2 MA's), (Start: 58 @33232 has 31 MA's), (Start: 63 @33223 has 79 MA's), (65, 33208), (68, 33184), (71, 33172), (81, 33091), (82, 33076), (86, 33022),

Gene: Evamon_37 Start: 33573, Stop: 33337, Start Num: 58

Candidate Starts for Evamon_37:

(Start: 38 @33609 has 2 MA's), (Start: 58 @33573 has 31 MA's), (Start: 63 @33564 has 79 MA's), (65, 33549), (68, 33525), (71, 33513), (81, 33432), (82, 33417), (86, 33363),

Gene: Eviarto_31 Start: 28820, Stop: 28584, Start Num: 63

Candidate Starts for Eviarto_31:

(Start: 59 @28826 has 2 MA's), (Start: 63 @28820 has 79 MA's), (65, 28805), (66, 28802), (68, 28781), (69, 28775), (70, 28772), (71, 28769), (82, 28673),

Gene: Eyes_32 Start: 27913, Stop: 27686, Start Num: 63

Candidate Starts for Eyes_32:

(Start: 38 @27958 has 2 MA's), (Start: 63 @27913 has 79 MA's), (65, 27898), (71, 27862), (77, 27799), (80, 27787), (82, 27766), (84, 27721), (86, 27712),

Gene: Eyre_28 Start: 24310, Stop: 24032, Start Num: 64

Candidate Starts for Eyre_28:

(12, 24448), (Start: 48 @24346 has 4 MA's), (Start: 63 @24313 has 79 MA's), (Start: 64 @24310 has 19 MA's), (65, 24298), (68, 24274), (70, 24265), (71, 24262), (77, 24199), (80, 24187), (82, 24166), (88, 24088),

Gene: Fairfaxidum_37 Start: 30093, Stop: 29866, Start Num: 62

Candidate Starts for Fairfaxidum_37:

(Start: 62 @30093 has 19 MA's), (68, 30054), (70, 30045), (71, 30042), (72, 30021), (82, 29946),

Gene: Faith5x5_27 Start: 23741, Stop: 23379, Start Num: 16

Candidate Starts for Faith5x5_27:

(Start: 16 @23741 has 1 MA's), (Start: 63 @23606 has 79 MA's), (66, 23588), (68, 23567), (69, 23561), (70, 23558), (71, 23555), (80, 23480), (81, 23474), (82, 23459), (84, 23414), (86, 23405),

Gene: Fenry_33 Start: 28854, Stop: 28627, Start Num: 63

Candidate Starts for Fenry_33:

(Start: 38 @28899 has 2 MA's), (Start: 63 @28854 has 79 MA's), (65, 28839), (68, 28815), (71, 28803), (81, 28722), (82, 28707), (86, 28653),

Gene: Fireball_38 Start: 33687, Stop: 33460, Start Num: 63

Candidate Starts for Fireball_38:

(Start: 38 @33732 has 2 MA's), (Start: 58 @33696 has 31 MA's), (Start: 63 @33687 has 79 MA's), (65, 33672), (68, 33648), (71, 33636), (81, 33555), (82, 33540), (86, 33486),

Gene: Floral_33 Start: 29088, Stop: 28861, Start Num: 63

Candidate Starts for Floral_33:

(Start: 48 @29133 has 4 MA's), (Start: 63 @29088 has 79 MA's), (70, 29040), (71, 29037), (73, 29010), (82, 28941),

Gene: Frickyeah_37 Start: 28187, Stop: 27960, Start Num: 63

Candidate Starts for Frickyeah_37:

(Start: 58 @28196 has 31 MA's), (Start: 63 @28187 has 79 MA's), (Start: 64 @28184 has 19 MA's), (65, 28172), (68, 28148), (71, 28136), (81, 28055), (82, 28040), (86, 27986),

Gene: Frokostdame_35 Start: 28824, Stop: 28597, Start Num: 63

Candidate Starts for Frokostdame_35:

(Start: 48 @28869 has 4 MA's), (Start: 63 @28824 has 79 MA's), (65, 28809), (68, 28785), (70, 28776), (71, 28773), (81, 28692), (82, 28677),

Gene: Fugax_41 Start: 33735, Stop: 33508, Start Num: 63

Candidate Starts for Fugax_41:

(Start: 38 @33780 has 2 MA's), (Start: 58 @33744 has 31 MA's), (Start: 63 @33735 has 79 MA's), (65, 33720), (68, 33696), (71, 33684), (75, 33636), (81, 33603), (82, 33588), (86, 33534),

Gene: GEazy_36 Start: 28931, Stop: 28659, Start Num: 48

Candidate Starts for GEazy_36:

(Start: 48 @28931 has 4 MA's), (Start: 63 @28886 has 79 MA's), (71, 28835), (83, 28736), (86, 28685),

Gene: GemG_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for GemG_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Getalong_38 Start: 30905, Stop: 30681, Start Num: 64

Candidate Starts for Getalong_38:

(Start: 63 @30908 has 79 MA's), (Start: 64 @30905 has 19 MA's), (65, 30893), (66, 30890), (71, 30857), (75, 30809), (80, 30782), (81, 30776), (82, 30761), (86, 30707),

Gene: Gezellig_37 Start: 33705, Stop: 33469, Start Num: 58

Candidate Starts for Gezellig_37:

(Start: 38 @33741 has 2 MA's), (Start: 58 @33705 has 31 MA's), (Start: 63 @33696 has 79 MA's), (65, 33681), (68, 33657), (71, 33645), (81, 33564), (82, 33549), (86, 33495),

Gene: Gizermo_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Gizermo_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Guacamole_34 Start: 29704, Stop: 29477, Start Num: 63

Candidate Starts for Guacamole_34:

(Start: 63 @29704 has 79 MA's), (65, 29689), (68, 29665), (71, 29653), (75, 29605), (82, 29557), (86, 29503),

Gene: Haley23_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Haley23_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Halo3_38 Start: 33998, Stop: 33762, Start Num: 58

Candidate Starts for Halo3_38:

(Start: 38 @34034 has 2 MA's), (Start: 58 @33998 has 31 MA's), (Start: 63 @33989 has 79 MA's), (65, 33974), (68, 33950), (71, 33938), (81, 33857), (82, 33842), (86, 33788),

Gene: HannahD_34 Start: 28251, Stop: 28024, Start Num: 63

Candidate Starts for HannahD_34:

(Start: 48 @28296 has 4 MA's), (Start: 63 @28251 has 79 MA's), (71, 28200), (83, 28101), (86, 28050),

Gene: Hedwig_37 Start: 29585, Stop: 29349, Start Num: 58

Candidate Starts for Hedwig_37:

(Start: 58 @29585 has 31 MA's), (Start: 63 @29576 has 79 MA's), (65, 29561), (68, 29537), (71, 29525), (81, 29444), (82, 29429),

Gene: Herod_31 Start: 28850, Stop: 28608, Start Num: 59

Candidate Starts for Herod_31:

(Start: 59 @28850 has 2 MA's), (Start: 63 @28844 has 79 MA's), (65, 28829), (66, 28826), (68, 28805), (69, 28799), (70, 28796), (71, 28793), (82, 28697), (87, 28640),

Gene: Hitter_34 Start: 28938, Stop: 28711, Start Num: 63

Candidate Starts for Hitter_34:

(Start: 38 @28983 has 2 MA's), (Start: 63 @28938 has 79 MA's), (65, 28923), (66, 28920), (68, 28899), (70, 28890), (71, 28887), (75, 28839), (82, 28791), (84, 28746), (86, 28737),

Gene: Holliday_36 Start: 28771, Stop: 28535, Start Num: 58

Candidate Starts for Holliday_36:

(Start: 58 @28771 has 31 MA's), (Start: 63 @28762 has 79 MA's), (Start: 64 @28759 has 19 MA's), (65, 28747), (68, 28723), (71, 28711), (80, 28636), (81, 28630), (82, 28615), (84, 28570), (86, 28561),

Gene: Horus_37 Start: 30117, Stop: 29881, Start Num: 58

Candidate Starts for Horus_37:

(Start: 58 @30117 has 31 MA's), (Start: 63 @30108 has 79 MA's), (Start: 64 @30105 has 19 MA's), (65, 30093), (68, 30069), (71, 30057), (81, 29976), (82, 29961), (86, 29907),

Gene: Hugley_30 Start: 28849, Stop: 28607, Start Num: 59

Candidate Starts for Hugley_30:

(Start: 59 @28849 has 2 MA's), (Start: 63 @28843 has 79 MA's), (65, 28828), (66, 28825), (68, 28804), (69, 28798), (70, 28795), (71, 28792), (82, 28696), (87, 28639),

Gene: Invectra_34 Start: 27219, Stop: 26992, Start Num: 62

Candidate Starts for Invectra_34:

(Start: 62 @27219 has 19 MA's), (65, 27204), (68, 27180), (70, 27171), (71, 27168), (72, 27147), (82, 27072), (86, 27018),

Gene: JCole_27 Start: 23464, Stop: 23237, Start Num: 63

Candidate Starts for JCole_27:

(Start: 63 @23464 has 79 MA's), (65, 23449), (68, 23425), (71, 23413), (81, 23332), (82, 23317), (84, 23272), (86, 23263),

Gene: Jablanski_35 Start: 30024, Stop: 29797, Start Num: 63

Candidate Starts for Jablanski_35:

(Start: 63 @30024 has 79 MA's), (65, 30009), (68, 29985), (69, 29979), (70, 29976), (71, 29973), (81, 29892), (82, 29877), (84, 29832), (86, 29823),

Gene: Jalamah_36 Start: 30107, Stop: 29880, Start Num: 63

Candidate Starts for Jalamah_36:

(22, 30212), (33, 30176), (Start: 63 @30107 has 79 MA's), (Start: 64 @30104 has 19 MA's), (65, 30092), (66, 30089), (68, 30068), (71, 30056), (75, 30008), (82, 29960), (86, 29906),

Gene: Jalleen_33 Start: 26187, Stop: 25960, Start Num: 63

Candidate Starts for Jalleen_33:

(Start: 57 @26196 has 3 MA's), (Start: 63 @26187 has 79 MA's), (66, 26169), (68, 26148), (71, 26136), (81, 26055), (82, 26040), (84, 25995), (85, 25989), (86, 25986),

Gene: Jambalaya_37 Start: 33343, Stop: 33116, Start Num: 63

Candidate Starts for Jambalaya_37:

(Start: 38 @33388 has 2 MA's), (Start: 58 @33352 has 31 MA's), (Start: 63 @33343 has 79 MA's), (65, 33328), (68, 33304), (71, 33292), (81, 33211), (82, 33196), (86, 33142),

Gene: JasperJr_34 Start: 29704, Stop: 29477, Start Num: 63

Candidate Starts for JasperJr_34:

(Start: 63 @29704 has 79 MA's), (65, 29689), (68, 29665), (71, 29653), (75, 29605), (82, 29557), (86, 29503),

Gene: JuJu_36 Start: 29305, Stop: 29078, Start Num: 63

Candidate Starts for JuJu_36:

(Start: 48 @29350 has 4 MA's), (Start: 63 @29305 has 79 MA's), (65, 29290), (68, 29266), (69, 29260), (70, 29257), (71, 29254), (81, 29173), (82, 29158),

Gene: Kamaru_36 Start: 28771, Stop: 28535, Start Num: 58

Candidate Starts for Kamaru_36:

(Start: 58 @28771 has 31 MA's), (Start: 59 @28768 has 2 MA's), (Start: 63 @28762 has 79 MA's), (65, 28747), (66, 28744), (68, 28723), (71, 28711), (75, 28663), (80, 28636), (81, 28630), (82, 28615), (84, 28570), (86, 28561),

Gene: KappaFarmDelta_37 Start: 28565, Stop: 28341, Start Num: 64

Candidate Starts for KappaFarmDelta_37:

(9, 28748), (10, 28730), (21, 28688), (Start: 60 @28571 has 1 MA's), (Start: 63 @28568 has 79 MA's), (Start: 64 @28565 has 19 MA's), (65, 28553), (66, 28550), (68, 28529), (70, 28520), (71, 28517), (79, 28448), (80, 28442), (83, 28418), (84, 28376), (86, 28367),

Gene: Kenna_36 Start: 29098, Stop: 28871, Start Num: 63

Candidate Starts for Kenna_36:

(Start: 58 @29107 has 31 MA's), (Start: 63 @29098 has 79 MA's), (Start: 64 @29095 has 19 MA's), (65, 29083), (68, 29059), (71, 29047), (75, 28999), (77, 28984), (80, 28972), (81, 28966), (82, 28951), (84, 28906),

Gene: Kiko_35 Start: 27318, Stop: 27091, Start Num: 62

Candidate Starts for Kiko_35:

(Start: 62 @27318 has 19 MA's), (65, 27303), (68, 27279), (70, 27270), (71, 27267), (72, 27246), (75, 27219), (79, 27198), (82, 27171), (86, 27117),

Gene: KimmyK_39 Start: 34287, Stop: 34051, Start Num: 58

Candidate Starts for KimmyK_39:

(Start: 38 @34323 has 2 MA's), (Start: 58 @34287 has 31 MA's), (Start: 63 @34278 has 79 MA's), (65, 34263), (68, 34239), (71, 34227), (81, 34146), (82, 34131), (86, 34077),

Gene: Kuwabara_36 Start: 29465, Stop: 29238, Start Num: 63

Candidate Starts for Kuwabara_36:

(Start: 63 @29465 has 79 MA's), (Start: 64 @29462 has 19 MA's), (65, 29450), (68, 29426), (71, 29414), (75, 29366), (80, 29339), (81, 29333), (82, 29318), (84, 29273), (86, 29264),

Gene: Leroy_37 Start: 30118, Stop: 29882, Start Num: 58

Candidate Starts for Leroy_37:

(Start: 58 @30118 has 31 MA's), (Start: 63 @30109 has 79 MA's), (Start: 64 @30106 has 19 MA's), (65, 30094), (68, 30070), (71, 30058), (81, 29977), (82, 29962), (86, 29908),

Gene: Lilas_35 Start: 29703, Stop: 29476, Start Num: 64

Candidate Starts for Lilas_35:

(Start: 63 @29706 has 79 MA's), (Start: 64 @29703 has 19 MA's), (65, 29691), (68, 29667), (71, 29655), (81, 29574), (82, 29559), (84, 29514), (86, 29505),

Gene: LitninMcQueen_35 Start: 28514, Stop: 28278, Start Num: 58

Candidate Starts for LitninMcQueen_35:

(Start: 58 @28514 has 31 MA's), (Start: 59 @28511 has 2 MA's), (Start: 63 @28505 has 79 MA's), (65, 28490), (66, 28487), (68, 28466), (71, 28454), (75, 28406), (80, 28379), (81, 28373), (82, 28358), (84, 28313), (86, 28304),

Gene: LonelyBoi_32 Start: 30030, Stop: 29803, Start Num: 63

Candidate Starts for LonelyBoi_32:

(4, 30270), (8, 30207), (19, 30159), (Start: 63 @30030 has 79 MA's), (65, 30015), (68, 29991), (71, 29979), (81, 29898), (82, 29883), (86, 29829),

Gene: Lton_27 Start: 23149, Stop: 22922, Start Num: 63

Candidate Starts for Lton_27:

(Start: 38 @23194 has 2 MA's), (Start: 63 @23149 has 79 MA's), (65, 23134), (68, 23110), (71, 23098), (75, 23050), (80, 23023), (81, 23017), (82, 23002), (84, 22957), (86, 22948),

Gene: Lucky10_31 Start: 26592, Stop: 26320, Start Num: 38

Candidate Starts for Lucky10_31:

(Start: 38 @26592 has 2 MA's), (Start: 63 @26547 has 79 MA's), (Start: 64 @26544 has 19 MA's), (65, 26532), (66, 26529), (68, 26508), (71, 26496), (82, 26400), (86, 26346),

Gene: Lutum_37 Start: 29098, Stop: 28871, Start Num: 63

Candidate Starts for Lutum_37:

(Start: 58 @29107 has 31 MA's), (Start: 63 @29098 has 79 MA's), (Start: 64 @29095 has 19 MA's), (65, 29083), (68, 29059), (71, 29047), (75, 28999), (77, 28984), (80, 28972), (81, 28966), (82, 28951), (84, 28906),

Gene: Lysidious_35 Start: 29428, Stop: 29201, Start Num: 63

Candidate Starts for Lysidious_35:

(Start: 58 @29437 has 31 MA's), (Start: 63 @29428 has 79 MA's), (65, 29413), (66, 29410), (68, 29389), (71, 29377), (75, 29329), (82, 29281), (86, 29227),

Gene: Malachai_36 Start: 30625, Stop: 30392, Start Num: 63

Candidate Starts for Malachai_36:

(Start: 63 @30625 has 79 MA's), (66, 30607), (68, 30586), (71, 30574), (77, 30511), (81, 30493), (82, 30478), (86, 30424), (88, 30400),

Gene: Malibo_36 Start: 29104, Stop: 28877, Start Num: 63

Candidate Starts for Malibo_36:

(Start: 48 @29149 has 4 MA's), (Start: 63 @29104 has 79 MA's), (70, 29056), (71, 29053), (73, 29026), (82, 28957), (86, 28903),

Gene: Malisha_37 Start: 29280, Stop: 29056, Start Num: 64

Candidate Starts for Malisha_37:

(Start: 58 @29292 has 31 MA's), (Start: 63 @29283 has 79 MA's), (Start: 64 @29280 has 19 MA's), (65, 29268), (68, 29244), (71, 29232), (81, 29151), (82, 29136), (84, 29091),

Gene: Marteena_32 Start: 27060, Stop: 26788, Start Num: 48

Candidate Starts for Marteena_32:

(Start: 48 @27060 has 4 MA's), (Start: 63 @27015 has 79 MA's), (70, 26967), (71, 26964), (73, 26937), (82, 26868),

Gene: Matteo_28 Start: 24466, Stop: 24239, Start Num: 63

Candidate Starts for Matteo_28:

(11, 24595), (14, 24580), (15, 24577), (17, 24574), (Start: 38 @24511 has 2 MA's), (Start: 57 @24475 has 3 MA's), (Start: 63 @24466 has 79 MA's), (Start: 64 @24463 has 19 MA's), (65, 24451), (66, 24448), (68, 24427), (71, 24415), (75, 24367), (81, 24334), (82, 24319), (86, 24265),

Gene: Mcklovin_32 Start: 30905, Stop: 30678, Start Num: 62

Candidate Starts for Mcklovin_32:

(Start: 62 @30905 has 19 MA's), (65, 30890), (68, 30866), (70, 30857), (71, 30854), (72, 30833), (82, 30758), (86, 30704),

Gene: MichaelScott_33 Start: 27967, Stop: 27740, Start Num: 62

Candidate Starts for MichaelScott_33:

(Start: 62 @27967 has 19 MA's), (65, 27952), (70, 27919), (71, 27916), (72, 27895), (80, 27841), (82, 27820), (86, 27766),

Gene: MintFen_33 Start: 29240, Stop: 29013, Start Num: 63

Candidate Starts for MintFen_33:

(Start: 38 @29285 has 2 MA's), (Start: 63 @29240 has 79 MA's), (65, 29225), (66, 29222), (71, 29189), (75, 29141), (81, 29108), (82, 29093), (86, 29039),

Gene: Mocha12_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Mocha12_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Moonflower_34 Start: 28635, Stop: 28411, Start Num: 64

Candidate Starts for Moonflower_34:

(Start: 38 @28683 has 2 MA's), (Start: 63 @28638 has 79 MA's), (Start: 64 @28635 has 19 MA's), (65, 28623), (68, 28599), (71, 28587), (81, 28506), (82, 28491), (86, 28437),

Gene: Moosehead_29 Start: 23632, Stop: 23405, Start Num: 63

Candidate Starts for Moosehead_29:

(Start: 63 @23632 has 79 MA's), (66, 23614), (68, 23593), (69, 23587), (70, 23584), (71, 23581), (78, 23515), (80, 23506), (81, 23500), (82, 23485), (84, 23440), (86, 23431),

Gene: Morkie_30 Start: 25204, Stop: 24980, Start Num: 64

Candidate Starts for Morkie_30:

(Start: 63 @25207 has 79 MA's), (Start: 64 @25204 has 19 MA's), (65, 25192), (66, 25189), (68, 25168), (71, 25156), (78, 25090), (82, 25060), (86, 25006),

Gene: MortyNRick_34 Start: 28519, Stop: 28292, Start Num: 63

Candidate Starts for MortyNRick_34:

(Start: 63 @28519 has 79 MA's), (Start: 64 @28516 has 19 MA's), (65, 28504), (66, 28501), (68, 28480), (71, 28468), (75, 28420), (80, 28393), (81, 28387), (82, 28372), (84, 28327), (86, 28318),

Gene: Nubi_38 Start: 33576, Stop: 33340, Start Num: 58

Candidate Starts for Nubi_38:

(Start: 38 @33612 has 2 MA's), (Start: 58 @33576 has 31 MA's), (Start: 63 @33567 has 79 MA's), (65, 33552), (68, 33528), (71, 33516), (81, 33435), (82, 33420), (86, 33366),

Gene: Nymphadora_31 Start: 28844, Stop: 28608, Start Num: 63

Candidate Starts for Nymphadora_31:

(Start: 59 @28850 has 2 MA's), (Start: 63 @28844 has 79 MA's), (65, 28829), (66, 28826), (68, 28805), (69, 28799), (70, 28796), (71, 28793), (82, 28697),

Gene: ODay_40 Start: 30569, Stop: 30345, Start Num: 64

Candidate Starts for ODay_40:

(Start: 58 @30581 has 31 MA's), (Start: 63 @30572 has 79 MA's), (Start: 64 @30569 has 19 MA's), (65, 30557), (68, 30533), (71, 30521), (81, 30440), (82, 30425), (86, 30371),

Gene: Obliviate_32 Start: 28122, Stop: 27895, Start Num: 63

Candidate Starts for Obliviate_32:

(Start: 63 @28122 has 79 MA's), (Start: 64 @28119 has 19 MA's), (65, 28107), (66, 28104), (68, 28083), (71, 28071), (82, 27975), (86, 27921),

Gene: OneDirection_28 Start: 23826, Stop: 23602, Start Num: 64

Candidate Starts for OneDirection_28:

(Start: 63 @23829 has 79 MA's), (Start: 64 @23826 has 19 MA's), (65, 23814), (66, 23811), (68, 23790), (71, 23778), (78, 23712), (82, 23682), (86, 23628),

Gene: Opie_35 Start: 29554, Stop: 29327, Start Num: 63

Candidate Starts for Opie_35:

(30, 29647), (43, 29614), (Start: 63 @29554 has 79 MA's), (70, 29506), (71, 29503), (73, 29476), (82, 29407), (86, 29353),

Gene: PCoral7_34 Start: 28574, Stop: 28347, Start Num: 62

Candidate Starts for PCoral7_34:

(Start: 62 @28574 has 19 MA's), (65, 28559), (68, 28535), (69, 28529), (70, 28526), (71, 28523), (72, 28502), (82, 28427), (86, 28373),

Gene: Pepperoni_29 Start: 24972, Stop: 24748, Start Num: 64

Candidate Starts for Pepperoni_29:

(Start: 63 @24975 has 79 MA's), (Start: 64 @24972 has 19 MA's), (65, 24960), (68, 24936), (71, 24924), (81, 24843), (82, 24828), (86, 24774),

Gene: Periwinkle_40 Start: 30562, Stop: 30326, Start Num: 58

Candidate Starts for Periwinkle_40:

(Start: 58 @30562 has 31 MA's), (Start: 63 @30553 has 79 MA's), (Start: 64 @30550 has 19 MA's), (65, 30538), (68, 30514), (71, 30502), (81, 30421), (82, 30406), (86, 30352),

Gene: Petra_35 Start: 29575, Stop: 29345, Start Num: 60

Candidate Starts for Petra_35:

(Start: 60 @29575 has 1 MA's), (Start: 62 @29572 has 19 MA's), (65, 29557), (66, 29554), (68, 29533), (71, 29521), (82, 29425), (86, 29371),

Gene: Phabuloso_34 Start: 28807, Stop: 28583, Start Num: 64

Candidate Starts for Phabuloso_34:

(Start: 58 @28819 has 31 MA's), (Start: 63 @28810 has 79 MA's), (Start: 64 @28807 has 19 MA's), (65, 28795), (68, 28771), (71, 28759), (81, 28678), (82, 28663), (84, 28618), (86, 28609),

Gene: Phistory_37 Start: 29459, Stop: 29223, Start Num: 58

Candidate Starts for Phistory_37:

(Start: 58 @29459 has 31 MA's), (Start: 63 @29450 has 79 MA's), (Start: 64 @29447 has 19 MA's), (65, 29435), (68, 29411), (71, 29399), (81, 29318), (82, 29303), (86, 29249),

Gene: Phlop_37 Start: 33648, Stop: 33421, Start Num: 63

Candidate Starts for Phlop_37:

(Start: 38 @33693 has 2 MA's), (Start: 58 @33657 has 31 MA's), (Start: 63 @33648 has 79 MA's), (65, 33633), (68, 33609), (71, 33597), (81, 33516), (82, 33501), (86, 33447),

Gene: PhorbesPhlower_29 Start: 24583, Stop: 24356, Start Num: 63

Candidate Starts for PhorbesPhlower_29:

(Start: 63 @24583 has 79 MA's), (66, 24565), (68, 24544), (71, 24532), (75, 24484), (80, 24457), (81, 24451), (82, 24436), (84, 24391), (86, 24382),

Gene: PhriskyACE_33 Start: 27013, Stop: 26786, Start Num: 62

Candidate Starts for PhriskyACE_33:

(Start: 62 @27013 has 19 MA's), (65, 26998), (68, 26974), (70, 26965), (71, 26962), (72, 26941), (82, 26866), (86, 26812),

Gene: PhrostedPhlake_36 Start: 29288, Stop: 29061, Start Num: 63

Candidate Starts for PhrostedPhlake_36:

(1, 29564), (6, 29504), (31, 29363), (39, 29348), (50, 29312), (Start: 60 @29291 has 1 MA's), (Start: 63 @29288 has 79 MA's), (Start: 64 @29285 has 19 MA's), (66, 29270), (68, 29249), (71, 29237), (82, 29141), (86, 29087),

Gene: Pickett_28 Start: 23332, Stop: 23105, Start Num: 63

Candidate Starts for Pickett_28:

(Start: 63 @23332 has 79 MA's), (66, 23314), (68, 23293), (71, 23281), (75, 23233), (80, 23206), (81, 23200), (82, 23185), (84, 23140),

Gene: PinkCoffee_40 Start: 33761, Stop: 33525, Start Num: 58

Candidate Starts for PinkCoffee_40:

(Start: 38 @33797 has 2 MA's), (Start: 58 @33761 has 31 MA's), (Start: 63 @33752 has 79 MA's), (65, 33737), (68, 33713), (71, 33701), (75, 33653), (81, 33620), (82, 33605), (86, 33551),

Gene: Pollux_34 Start: 29088, Stop: 28861, Start Num: 63

Candidate Starts for Pollux_34:

(Start: 48 @29133 has 4 MA's), (Start: 63 @29088 has 79 MA's), (70, 29040), (71, 29037), (73, 29010), (82, 28941),

Gene: Portcullis_38 Start: 33064, Stop: 32837, Start Num: 63

Candidate Starts for Portcullis_38:

(Start: 38 @33109 has 2 MA's), (Start: 58 @33073 has 31 MA's), (Start: 63 @33064 has 79 MA's), (65, 33049), (68, 33025), (71, 33013), (81, 32932), (82, 32917), (86, 32863),

Gene: Powerball_35 Start: 28956, Stop: 28720, Start Num: 62

Candidate Starts for Powerball_35:

(Start: 62 @28956 has 19 MA's), (65, 28941), (68, 28917), (70, 28908), (71, 28905), (72, 28884), (82, 28809), (86, 28755),

Gene: PullumCavea_37 Start: 33648, Stop: 33421, Start Num: 63

Candidate Starts for PullumCavea_37:

(Start: 38 @33693 has 2 MA's), (Start: 58 @33657 has 31 MA's), (Start: 63 @33648 has 79 MA's), (65, 33633), (68, 33609), (71, 33597), (81, 33516), (82, 33501), (86, 33447),

Gene: Pytheas_35 Start: 30023, Stop: 29796, Start Num: 63

Candidate Starts for Pytheas_35:

(Start: 63 @30023 has 79 MA's), (65, 30008), (68, 29984), (69, 29978), (70, 29975), (71, 29972), (81, 29891), (82, 29876), (84, 29831), (86, 29822),

Gene: RayTheFireFly_35 Start: 29149, Stop: 28925, Start Num: 64

Candidate Starts for RayTheFireFly_35:

(Start: 63 @29152 has 79 MA's), (Start: 64 @29149 has 19 MA's), (65, 29137), (66, 29134), (68, 29113), (71, 29101), (81, 29020), (82, 29005), (86, 28951),

Gene: RogerDodger_41 Start: 33903, Stop: 33667, Start Num: 58

Candidate Starts for RogerDodger_41:

(Start: 38 @33939 has 2 MA's), (Start: 58 @33903 has 31 MA's), (Start: 63 @33894 has 79 MA's), (65, 33879), (68, 33855), (71, 33843), (75, 33795), (81, 33762), (82, 33747), (86, 33693),

Gene: Ruthy_34 Start: 29303, Stop: 29040, Start Num: 40

Candidate Starts for Ruthy_34:

(Start: 40 @29303 has 1 MA's), (Start: 60 @29270 has 1 MA's), (Start: 63 @29267 has 79 MA's), (65, 29252), (68, 29228), (69, 29222), (70, 29219), (71, 29216), (82, 29120), (86, 29066),

Gene: Sahara_33 Start: 26218, Stop: 25991, Start Num: 63

Candidate Starts for Sahara_33:

(18, 26341), (34, 26287), (49, 26245), (51, 26239), (Start: 63 @26218 has 79 MA's), (65, 26203), (66, 26200), (68, 26179), (71, 26167), (81, 26086), (82, 26071), (84, 26026), (85, 26020), (86, 26017),

Gene: Salvador_37 Start: 33571, Stop: 33335, Start Num: 58

Candidate Starts for Salvador_37:

(Start: 38 @33607 has 2 MA's), (Start: 58 @33571 has 31 MA's), (Start: 63 @33562 has 79 MA's), (65, 33547), (68, 33523), (71, 33511), (81, 33430), (82, 33415), (86, 33361),

Gene: Samba_36 Start: 30626, Stop: 30390, Start Num: 58

Candidate Starts for Samba_36:

(Start: 58 @30626 has 31 MA's), (Start: 63 @30617 has 79 MA's), (65, 30602), (66, 30599), (68, 30578), (71, 30566), (75, 30518), (81, 30485), (82, 30470), (84, 30425), (86, 30416),

Gene: Samman98_32 Start: 26076, Stop: 25849, Start Num: 62

Candidate Starts for Samman98_32:

(2, 26340), (3, 26334), (5, 26289), (8, 26241), (13, 26205), (25, 26172), (Start: 62 @26076 has 19 MA's), (65, 26061), (68, 26037), (70, 26028), (71, 26025), (72, 26004), (80, 25950), (82, 25929),

Gene: Savage_34 Start: 26557, Stop: 26321, Start Num: 57

Candidate Starts for Savage_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Savbucketdawg_37 Start: 33343, Stop: 33116, Start Num: 63

Candidate Starts for Savbucketdawg_37:

(Start: 38 @33388 has 2 MA's), (Start: 58 @33352 has 31 MA's), (Start: 63 @33343 has 79 MA's), (65, 33328), (68, 33304), (71, 33292), (81, 33211), (82, 33196), (86, 33142),

Gene: Sekhmet_35 Start: 27809, Stop: 27582, Start Num: 62

Candidate Starts for Sekhmet_35:

(Start: 62 @27809 has 19 MA's), (65, 27794), (70, 27761), (71, 27758), (72, 27737), (80, 27683), (82, 27662), (86, 27608),

Gene: ShawBrad_36 Start: 28681, Stop: 28445, Start Num: 58

Candidate Starts for ShawBrad_36:

(Start: 58 @28681 has 31 MA's), (Start: 63 @28672 has 79 MA's), (Start: 64 @28669 has 19 MA's), (65, 28657), (68, 28633), (71, 28621), (81, 28540), (82, 28525), (84, 28480), (86, 28471), (87, 28468),

Gene: Shinji_38 Start: 33014, Stop: 32778, Start Num: 58

Candidate Starts for Shinji_38:

(Start: 38 @33050 has 2 MA's), (Start: 58 @33014 has 31 MA's), (Start: 63 @33005 has 79 MA's), (65, 32990), (68, 32966), (71, 32954), (76, 32900), (80, 32879), (81, 32873), (82, 32858), (84, 32813), (85, 32807), (86, 32804),

Gene: SmokingBunny_37 Start: 33562, Stop: 33326, Start Num: 58

Candidate Starts for SmokingBunny_37:

(Start: 38 @33598 has 2 MA's), (Start: 58 @33562 has 31 MA's), (Start: 63 @33553 has 79 MA's), (65, 33538), (68, 33514), (71, 33502), (81, 33421), (82, 33406), (86, 33352),

Gene: Spooky_36 Start: 28938, Stop: 28702, Start Num: 58

Candidate Starts for Spooky_36:

(Start: 58 @28938 has 31 MA's), (Start: 63 @28929 has 79 MA's), (Start: 64 @28926 has 19 MA's), (65, 28914), (68, 28890), (71, 28878), (80, 28803), (81, 28797), (82, 28782), (84, 28737),

Gene: Sproutie_34 Start: 26557, Stop: 26321, Start Num: 57

Candidate Starts for Sproutie_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Squiddly_38 Start: 30313, Stop: 30086, Start Num: 63

Candidate Starts for Squiddly_38:

(Start: 58 @30322 has 31 MA's), (Start: 63 @30313 has 79 MA's), (Start: 64 @30310 has 19 MA's), (65, 30298), (68, 30274), (71, 30262), (81, 30181), (82, 30166), (84, 30121),

Gene: TaronosaurusRx_33 Start: 28265, Stop: 28032, Start Num: 59

Candidate Starts for TaronosaurusRx_33:

(Start: 48 @28307 has 4 MA's), (Start: 58 @28268 has 31 MA's), (Start: 59 @28265 has 2 MA's), (Start: 63 @28259 has 79 MA's), (65, 28244), (68, 28220), (69, 28214), (70, 28211), (71, 28208), (80, 28133), (81, 28127), (82, 28112), (84, 28067), (86, 28058),

Gene: Thimann_32 Start: 26356, Stop: 26129, Start Num: 62

Candidate Starts for Thimann_32:

(Start: 62 @26356 has 19 MA's), (65, 26341), (68, 26317), (70, 26308), (71, 26305), (72, 26284), (82, 26209), (86, 26155),

Gene: TillyBobJoe_37 Start: 33366, Stop: 33130, Start Num: 58

Candidate Starts for TillyBobJoe_37:

(Start: 38 @33402 has 2 MA's), (Start: 58 @33366 has 31 MA's), (Start: 63 @33357 has 79 MA's), (65, 33342), (68, 33318), (71, 33306), (81, 33225), (82, 33210), (86, 33156),

Gene: TimTam_31 Start: 28844, Stop: 28608, Start Num: 63

Candidate Starts for TimTam_31:

(Start: 59 @28850 has 2 MA's), (Start: 63 @28844 has 79 MA's), (65, 28829), (66, 28826), (68, 28805), (69, 28799), (70, 28796), (71, 28793), (82, 28697),

Gene: TinyDot_30 Start: 24493, Stop: 24266, Start Num: 63

Candidate Starts for TinyDot_30:

(Start: 38 @24538 has 2 MA's), (Start: 63 @24493 has 79 MA's), (65, 24478), (67, 24469), (68, 24454), (71, 24442), (75, 24394), (80, 24367), (81, 24361), (82, 24346), (84, 24301), (86, 24292),

Gene: Toast_34 Start: 28574, Stop: 28347, Start Num: 62

Candidate Starts for Toast_34:

(Start: 62 @28574 has 19 MA's), (65, 28559), (68, 28535), (69, 28529), (70, 28526), (71, 28523), (72, 28502), (82, 28427), (86, 28373),

Gene: Togo_37 Start: 33553, Stop: 33326, Start Num: 63

Candidate Starts for Togo_37:

(Start: 38 @33598 has 2 MA's), (Start: 58 @33562 has 31 MA's), (Start: 63 @33553 has 79 MA's), (65, 33538), (68, 33514), (71, 33502), (81, 33421), (82, 33406), (86, 33352),

Gene: TuertoX_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for TuertoX_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Tuti_35 Start: 27599, Stop: 27372, Start Num: 63

Candidate Starts for Tuti_35:

(Start: 63 @27599 has 79 MA's), (65, 27584), (68, 27560), (71, 27548), (72, 27527), (82, 27452),

Gene: Twister6_40 Start: 33465, Stop: 33229, Start Num: 58

Candidate Starts for Twister6_40:

(Start: 38 @33501 has 2 MA's), (Start: 58 @33465 has 31 MA's), (Start: 63 @33456 has 79 MA's), (65, 33441), (68, 33417), (71, 33405), (81, 33324), (82, 33309), (86, 33255),

Gene: UmaThurman_31 Start: 28735, Stop: 28508, Start Num: 63

Candidate Starts for UmaThurman_31:

(Start: 63 @28735 has 79 MA's), (65, 28720), (68, 28696), (71, 28684), (75, 28636), (82, 28588), (86, 28534),

Gene: Valary_40 Start: 34508, Stop: 34272, Start Num: 58

Candidate Starts for Valary_40:

(Start: 38 @34544 has 2 MA's), (Start: 58 @34508 has 31 MA's), (Start: 63 @34499 has 79 MA's), (65, 34484), (68, 34460), (71, 34448), (75, 34400), (81, 34367), (82, 34352), (86, 34298),

Gene: VanDeWege_41 Start: 33791, Stop: 33564, Start Num: 63

Candidate Starts for VanDeWege_41:

(Start: 38 @33836 has 2 MA's), (Start: 58 @33800 has 31 MA's), (Start: 63 @33791 has 79 MA's), (65, 33776), (68, 33752), (71, 33740), (75, 33692), (81, 33659), (82, 33644), (86, 33590),

Gene: Walrus_36 Start: 29330, Stop: 29094, Start Num: 58

Candidate Starts for Walrus_36:

(27, 29423), (28, 29420), (36, 29399), (53, 29345), (54, 29336), (Start: 58 @29330 has 31 MA's), (Start: 63 @29321 has 79 MA's), (65, 29306), (68, 29282), (71, 29270), (80, 29195), (81, 29189), (82, 29174), (86, 29120),

Gene: WelcomeAyanna_35 Start: 30384, Stop: 30157, Start Num: 63

Candidate Starts for WelcomeAyanna_35:

(45, 30435), (Start: 63 @30384 has 79 MA's), (68, 30345), (70, 30336), (82, 30237), (83, 30234), (86, 30183),

Gene: Whiteclaw_34 Start: 26548, Stop: 26321, Start Num: 63

Candidate Starts for Whiteclaw_34:

(Start: 57 @26557 has 3 MA's), (Start: 63 @26548 has 79 MA's), (66, 26530), (68, 26509), (71, 26497), (81, 26416), (82, 26401), (84, 26356), (85, 26350), (86, 26347),

Gene: Whitney_40 Start: 32148, Stop: 31924, Start Num: 64

Candidate Starts for Whitney_40:

(Start: 63 @32151 has 79 MA's), (Start: 64 @32148 has 19 MA's), (65, 32136), (68, 32112), (71, 32100), (75, 32052), (80, 32025), (81, 32019), (82, 32004), (84, 31959), (86, 31950),

Gene: William_35 Start: 28714, Stop: 28487, Start Num: 62

Candidate Starts for William_35:

(Start: 62 @28714 has 19 MA's), (65, 28699), (68, 28675), (71, 28663), (72, 28642), (80, 28588), (82, 28567), (84, 28522),

Gene: Wisp_30 Start: 27726, Stop: 27493, Start Num: 63

Candidate Starts for Wisp_30:

(Start: 63 @27726 has 79 MA's), (Start: 64 @27723 has 19 MA's), (65, 27711), (68, 27687), (71, 27675), (75, 27627), (81, 27594), (82, 27579), (86, 27525), (88, 27501),

Gene: Wizard_37 Start: 33705, Stop: 33469, Start Num: 58

Candidate Starts for Wizard_37:

(Start: 38 @33741 has 2 MA's), (Start: 58 @33705 has 31 MA's), (Start: 63 @33696 has 79 MA's), (65, 33681), (68, 33657), (71, 33645), (81, 33564), (82, 33549), (86, 33495),

Gene: Wocket_36 Start: 28733, Stop: 28506, Start Num: 63

Candidate Starts for Wocket_36:

(9, 28913), (10, 28895), (21, 28853), (Start: 60 @28736 has 1 MA's), (Start: 63 @28733 has 79 MA's), (Start: 64 @28730 has 19 MA's), (65, 28718), (66, 28715), (68, 28694), (70, 28685), (71, 28682), (79, 28613), (80, 28607), (83, 28583), (84, 28541), (86, 28532),

Gene: YungMoney_39 Start: 34979, Stop: 34755, Start Num: 64

Candidate Starts for YungMoney_39:

(23, 35072), (26, 35066), (27, 35063), (28, 35060), (29, 35051), (36, 35036), (Start: 63 @34982 has 79 MA's), (Start: 64 @34979 has 19 MA's), (65, 34967), (68, 34943), (71, 34931), (82, 34835), (84, 34790), (86, 34781),

Gene: Zarbodnamra_33 Start: 28639, Stop: 28412, Start Num: 63

Candidate Starts for Zarbodnamra_33:

(Start: 38 @28684 has 2 MA's), (Start: 63 @28639 has 79 MA's), (65, 28624), (66, 28621), (68, 28600), (71, 28588), (75, 28540), (78, 28522), (82, 28492), (84, 28447), (86, 28438), (87, 28435),

Gene: ZiggyZoo_34 Start: 28938, Stop: 28711, Start Num: 63

Candidate Starts for ZiggyZoo_34:

(Start: 63 @28938 has 79 MA's), (Start: 64 @28935 has 19 MA's), (65, 28923), (66, 28920), (68, 28899), (71, 28887), (82, 28791), (86, 28737),

Gene: Zilla_36 Start: 29544, Stop: 29320, Start Num: 64

Candidate Starts for Zilla_36:

(Start: 38 @29592 has 2 MA's), (Start: 63 @29547 has 79 MA's), (Start: 64 @29544 has 19 MA's), (65, 29532), (66, 29529), (68, 29508), (71, 29496), (81, 29415), (82, 29400),