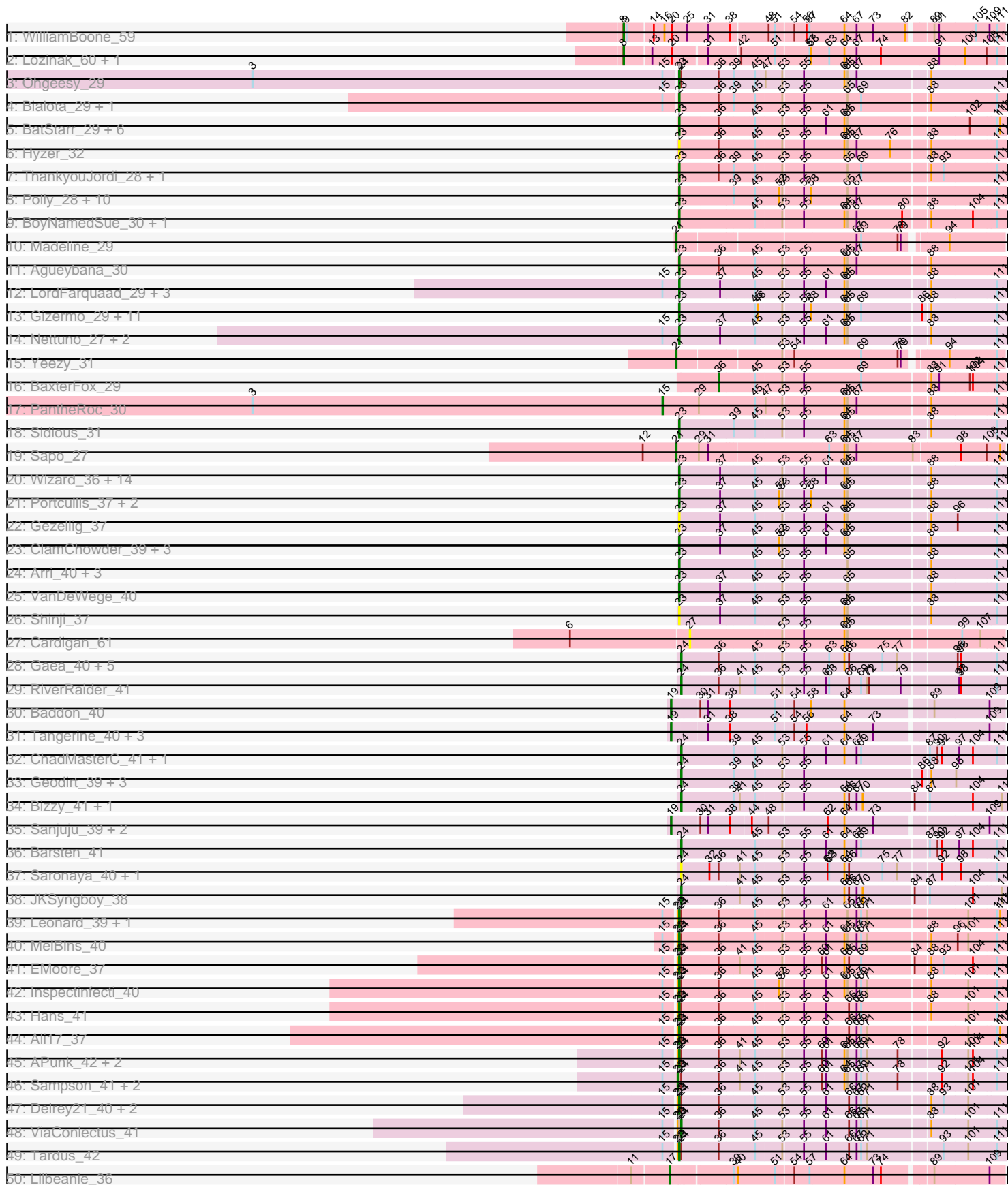
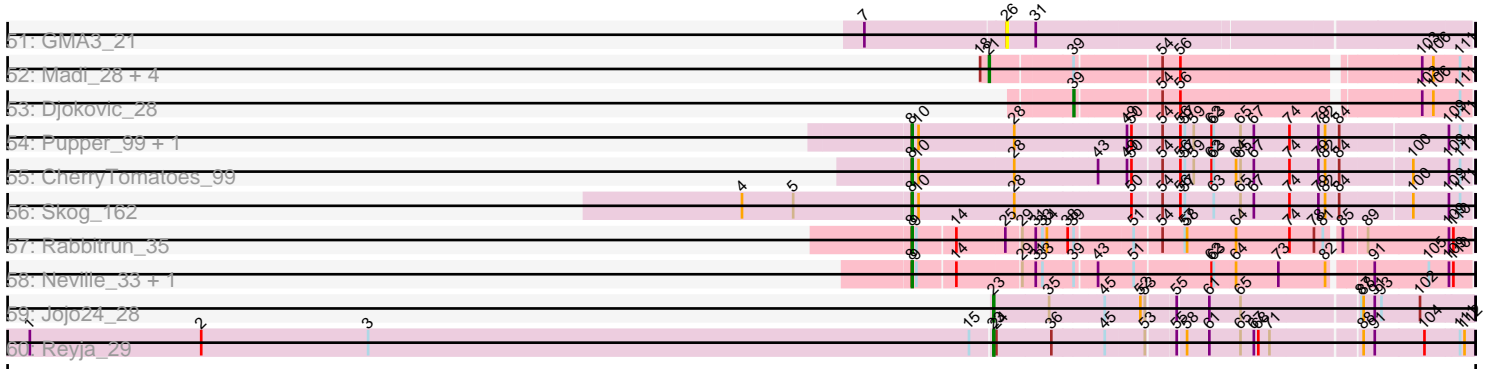


Pham 200054



Pham 200054



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 200054 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200054 has 147 members, 19 are drafts.

Phages represented in each track:

- Track 1 : WilliamBoone\_59
- Track 2 : Lozinak\_60, Smoothie\_61
- Track 3 : Ohgeesy\_29
- Track 4 : Bialota\_29, Zirinka\_29
- Track 5 : BatStarr\_29, Nymphadora\_29, Eviarto\_29, TimTam\_29, Bosnia\_29, Hugley\_28, Herod\_29
- Track 6 : Hyzer\_32
- Track 7 : ThankyouJordi\_28, WelcomeAyanna\_28
- Track 8 : Polly\_28, Manasvini\_31, Neobush\_31, Zameen\_31, Kita\_31, Eudoria\_31, Tayonia\_31, Antonio\_31, Trumpet\_31, Maridalia\_30, Suscepit\_31
- Track 9 : BoyNamedSue\_30, AlumE\_30
- Track 10 : Madeline\_29
- Track 11 : Agueybana\_30
- Track 12 : LordFarquaad\_29, Attis\_29, Yeet412\_29, Bjanes7\_29
- Track 13 : Gizermo\_29, Sahara\_28, Ebert\_30, Savage\_29, Haley23\_29, GemG\_29, Cynthia\_29, Sproutie\_29, Whiteclaw\_29, Mocha12\_29, TuertoX\_29, Clap\_29
- Track 14 : Nettuno\_27, Lamberg\_27, EdnaMode\_27
- Track 15 : Yeezy\_31
- Track 16 : BaxterFox\_29
- Track 17 : PantheRoc\_30
- Track 18 : Sidious\_31
- Track 19 : Sapo\_27
- Track 20 : Wizard\_36, TillyBobJoe\_36, Halo3\_37, PullumCavea\_36, Jambalaya\_36, CoveyB\_40, KimmyK\_38, SmokingBunny\_36, Fireball\_37, Phlop\_36, Nubi\_37, Salvador\_36, Evamon\_36, Togo\_36, Savbucketdawg\_36
- Track 21 : Portcullis\_37, Twister6\_39, Danyall\_39
- Track 22 : Gezellig\_37
- Track 23 : ClamChowder\_39, PinkCoffee\_39, Barb\_39, Fugax\_40
- Track 24 : Arri\_40, RogerDodger\_40, Valary\_39, CherryCola\_40
- Track 25 : VanDeWege\_40
- Track 26 : Shinji\_37
- Track 27 : Cardigan\_61
- Track 28 : Gaea\_40, LilHam\_38, Baumdotcom\_39, Kwobi\_41, Tycho\_40, SchottB\_39
- Track 29 : RiverRaider\_41
- Track 30 : Baddon\_40
- Track 31 : Tangerine\_40, Derg\_38, Flatwoods\_41, Kroos\_41

- Track 32 : ChadMasterC\_41, Kewpiedoll\_40
- Track 33 : Geodirt\_39, FuegoCuervo\_43, Stultus\_39, MoontowerMania\_40
- Track 34 : Bizzy\_41, Ribeye\_41
- Track 35 : Sanjuju\_39, Fitzgerald\_39, Jabberwocky\_39
- Track 36 : Barsten\_41
- Track 37 : Saronaya\_40, Gustavo\_40
- Track 38 : JKSyngboy\_38
- Track 39 : Leonard\_39, Phinally\_39
- Track 40 : MelBins\_40
- Track 41 : EMOore\_37
- Track 42 : Inspectinfecti\_40
- Track 43 : Hans\_41
- Track 44 : Ali17\_37
- Track 45 : APunk\_42, Zipp\_40, Scioto\_42
- Track 46 : Sampson\_41, Abblin\_41, Natkenzie\_41
- Track 47 : Delrey21\_40, DoctorFroggo\_40, Verity\_40
- Track 48 : ViaConlectus\_41
- Track 49 : Tardus\_42
- Track 50 : Lilbeanie\_36
- Track 51 : GMA3\_21
- Track 52 : Madi\_28, BiteSize\_28, Terapin\_29, Sienna\_28, Beyoncage\_28
- Track 53 : Djokovic\_28
- Track 54 : Pupper\_99, SCentae\_98
- Track 55 : CherryTomatoes\_99
- Track 56 : Skog\_162
- Track 57 : Rabbitrun\_35
- Track 58 : Neville\_33, Trax\_33
- Track 59 : Jojo24\_28
- Track 60 : Reyja\_29

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

The start number called the most often in the published annotations is 23, it was called in 85 of the 128 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_42, Agueybana\_30, Ali17\_37, AlumE\_30, Antonio\_31, Arri\_40, Attis\_29, Barb\_39, BatStarr\_29, Bialota\_29, Bjanes7\_29, Bosnia\_29, BoyNamedSue\_30, CherryCola\_40, ClamChowder\_39, Clap\_29, CoveyB\_40, Cynthia\_29, Danyall\_39, Delrey21\_40, DoctorFroggo\_40, EMOore\_37, Ebert\_30, EdnaMode\_27, Eudoria\_31, Evamon\_36, Eviarto\_29, Fireball\_37, Fugax\_40, GemG\_29, Gezellig\_37, Gizermo\_29, Haley23\_29, Halo3\_37, Hans\_41, Herod\_29, Hugley\_28, Hyzer\_32, Inspectinfecti\_40, Jambalaya\_36, Jojo24\_28, KimmyK\_38, Kita\_31, Lamberg\_27, Leonard\_39, LordFarquaad\_29, Manasvini\_31, Maridalia\_30, MelBins\_40, Mocha12\_29, Neobush\_31, Nettuno\_27, Nubi\_37, Nymphadora\_29, Ohgeesy\_29, Phinally\_39, Phlop\_36, PinkCoffee\_39, Polly\_28, Portcullis\_37, PullumCavea\_36, Reyja\_29, RogerDodger\_40, Sahara\_28, Salvador\_36, Savage\_29, Savbucketdawg\_36, Scioto\_42, Shinji\_37, Sidious\_31, SmokingBunny\_36, Sproutie\_29, Suscepit\_31, Tardus\_42, Tayonia\_31, ThankyouJordi\_28, TillyBobJoe\_36, TimTam\_29, Togo\_36, Trumpet\_31, TuertoX\_29, Twister6\_39,

Valary\_39, VanDeWege\_40, Verity\_40, WelcomeAyanna\_28, Whiteclaw\_29, Wizard\_36, Yeet412\_29, Zameen\_31, Zipp\_40, Zirinka\_29,

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

- Abblin\_41, Natkenzie\_41, Sampson\_41, ViaConlectus\_41,

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

- Baddon\_40, Barsten\_41, Baumdotcom\_39, BaxterFox\_29, Beyoncage\_28, BiteSize\_28, Bizzy\_41, Cardigan\_61, ChadMasterC\_41, CherryTomatoes\_99, Derg\_38, Djokovic\_28, Fitzgerald\_39, Flatwoods\_41, FuegoCuervo\_43, GMA3\_21, Gaea\_40, Geodirt\_39, Gustavo\_40, JKSyngboy\_38, Jabberwocky\_39, Kewpiedoll\_40, Kroos\_41, Kwobi\_41, LilHam\_38, Lilbeanie\_36, Lozinak\_60, Madeline\_29, Madi\_28, MoontowerMania\_40, Neville\_33, PantheRoc\_30, Pupper\_99, Rabbitrun\_35, Ribeye\_41, RiverRaider\_41, SCentae\_98, Sanjuju\_39, Sapo\_27, Saronaya\_40, SchottB\_39, Sienna\_28, Skog\_162, Smoothie\_61, Stultus\_39, Tangerine\_40, Terapin\_29, Trax\_33, Tycho\_40, WilliamBoone\_59, Yeezy\_31,

### Summary by start number:

Start 8:

- Found in 10 of 147 ( 6.8% ) of genes in pham
- Manual Annotations of this start: 10 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_99 (DO), Lozinak\_60 (CQ1), Neville\_33 (DU2), Pupper\_99 (DO), Rabbitrun\_35 (DU2), SCentae\_98 (DO), Skog\_162 (DO), Smoothie\_61 (CQ1), Trax\_33 (DU2), WilliamBoone\_59 (CQ1),

Start 15:

- Found in 30 of 147 ( 20.4% ) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 3.3% of time when present
- Phage (with cluster) where this start called: PantheRoc\_30 (CZ3),

Start 17:

- Found in 1 of 147 ( 0.7% ) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lilbeanie\_36 (DE5),

Start 19:

- Found in 8 of 147 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 7 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Baddon\_40 (DE1), Derg\_38 (DE1), Fitzgerald\_39 (DE1), Flatwoods\_41 (DE1), Jabberwocky\_39 (DE1), Kroos\_41 (DE1), Sanjuju\_39 (DE1), Tangerine\_40 (DE1),

Start 21:

- Found in 8 of 147 ( 5.4% ) of genes in pham
- Manual Annotations of this start: 8 of 128
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Beyoncage\_28 (DG1), BiteSize\_28 (DG1), Madeline\_29 (CZ1), Madi\_28 (DG1), Sapo\_27 (DA), Sienna\_28 (DG1), Terapin\_29 (DG1), Yeezy\_31 (CZ3),

#### Start 22:

- Found in 18 of 147 ( 12.2% ) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Abblin\_41 (DE4), Natkenzie\_41 (DE4), Sampson\_41 (DE4),

#### Start 23:

- Found in 96 of 147 ( 65.3% ) of genes in pham
- Manual Annotations of this start: 85 of 128
- Called 95.8% of time when present
- Phage (with cluster) where this start called: APunk\_42 (DE4), Agueybana\_30 (CZ1), Ali17\_37 (DE2), AlumE\_30 (CZ1), Antonio\_31 (CZ1), Arri\_40 (DC1), Attis\_29 (CZ2), Barb\_39 (DC1), BatStarr\_29 (CZ1), Bialota\_29 (CZ1), Bjanes7\_29 (CZ2), Bosnia\_29 (CZ1), BoyNamedSue\_30 (CZ1), CherryCola\_40 (DC1), ClamChowder\_39 (DC1), Clap\_29 (CZ2), CoveyB\_40 (DC1), Cynthia\_29 (CZ2), Danyall\_39 (DC1), Delrey21\_40 (DE4), DoctorFroggo\_40 (DE4), EMOore\_37 (DE2), Ebert\_30 (CZ2), EdnaMode\_27 (CZ2), Eudoria\_31 (CZ1), Evamon\_36 (DC1), Eviarto\_29 (CZ1), Fireball\_37 (DC1), Fugax\_40 (DC1), GemG\_29 (CZ2), Gezellig\_37 (DC1), Gizermo\_29 (CZ2), Haley23\_29 (CZ2), Halo3\_37 (DC1), Hans\_41 (DE2), Herod\_29 (CZ1), Hugley\_28 (CZ1), Hyzer\_32 (CZ1), Inspectinfecti\_40 (DE2), Jambalaya\_36 (DC1), Jojo24\_28 (DY), KimmyK\_38 (DC1), Kita\_31 (CZ1), Lamberg\_27 (CZ2), Leonard\_39 (DE2), LordFarquaad\_29 (CZ2), Manasvini\_31 (CZ1), Maridalia\_30 (CZ1), MelBins\_40 (DE2), Mocha12\_29 (CZ2), Neobush\_31 (CZ1), Nettuno\_27 (CZ2), Nubi\_37 (DC1), Nymphadora\_29 (CZ1), Ohgeesy\_29 (CZ), Phinally\_39 (DE2), Phlop\_36 (DC1), PinkCoffee\_39 (DC1), Polly\_28 (CZ1), Portcullis\_37 (DC1), PullumCavea\_36 (DC1), Reyja\_29 (DY), RogerDodger\_40 (DC1), Sahara\_28 (CZ2), Salvador\_36 (DC1), Savage\_29 (CZ2), Savbucketdawg\_36 (DC1), Scioto\_42 (DE4), Shinji\_37 (DC1), Sidious\_31 (CZ7), SmokingBunny\_36 (DC1), Sproutie\_29 (CZ2), Suscepit\_31 (CZ1), Tardus\_42 (DE4), Tayonia\_31 (CZ1), ThankyouJordi\_28 (CZ1), TillyBobJoe\_36 (DC1), TimTam\_29 (CZ1), Togo\_36 (DC1), Trumpet\_31 (CZ1), TuertoX\_29 (CZ2), Twister6\_39 (DC1), Valary\_39 (DC1), VanDeWege\_40 (DC1), Verity\_40 (DE4), WelcomeAyanna\_28 (CZ1), Whiteclaw\_29 (CZ2), Wizard\_36 (DC1), Yeet412\_29 (CZ2), Zameen\_31 (CZ1), Zipp\_40 (DE4), Zirinka\_29 (CZ1),

#### Start 24:

- Found in 39 of 147 ( 26.5% ) of genes in pham
- Manual Annotations of this start: 13 of 128
- Called 51.3% of time when present
- Phage (with cluster) where this start called: Barsten\_41 (DE1), Baumdotcom\_39 (DE1), Bizzy\_41 (DE1), ChadMasterC\_41 (DE1), FuegoCuervo\_43 (DE1), Gaea\_40 (DE1), Geodirt\_39 (DE1), Gustavo\_40 (DE1), JKSyngboy\_38 (DE1), Kewpiedoll\_40 (DE1), Kwobi\_41 (DE1), LilHam\_38 (DE1), MoontowerMania\_40 (DE1), Ribeye\_41 (DE1), RiverRaider\_41 (DE1), Saronaya\_40 (DE1), SchottB\_39 (DE1), Stultus\_39 (DE1), Tycho\_40 (DE1), ViaConlectus\_41 (DE4),

#### Start 26:

- Found in 1 of 147 ( 0.7% ) of genes in pham
- No Manual Annotations of this start.

- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3\_21 (DF2),

Start 27:

- Found in 1 of 147 ( 0.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cardigan\_61 (DD),

Start 36:

- Found in 43 of 147 ( 29.3% ) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 2.3% of time when present
- Phage (with cluster) where this start called: BaxterFox\_29 (CZ3),

Start 39:

- Found in 35 of 147 ( 23.8% ) of genes in pham
- Manual Annotations of this start: 1 of 128
- Called 2.9% of time when present
- Phage (with cluster) where this start called: Djokovic\_28 (DG1),

### **Summary by clusters:**

There are 18 clusters represented in this pham: DO, CZ2, DE1, DE2, CZ1, DE4, CZ7, DD, DE5, CZ, DG1, DY, CZ3, DU2, DA, DF2, CQ1, DC1,

Info for manual annotations of cluster CQ1:

- Start number 8 was manually annotated 3 times for cluster CQ1.

Info for manual annotations of cluster CZ:

- Start number 23 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 21 was manually annotated 1 time for cluster CZ1.
- Start number 23 was manually annotated 24 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 23 was manually annotated 19 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 15 was manually annotated 1 time for cluster CZ3.
- Start number 21 was manually annotated 1 time for cluster CZ3.
- Start number 36 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ7:

- Start number 23 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DA:

- Start number 21 was manually annotated 1 time for cluster DA.

Info for manual annotations of cluster DC1:

- Start number 23 was manually annotated 25 times for cluster DC1.

Info for manual annotations of cluster DE1:

- Start number 19 was manually annotated 7 times for cluster DE1.
- Start number 24 was manually annotated 12 times for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 23 was manually annotated 7 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 22 was manually annotated 1 time for cluster DE4.
- Start number 23 was manually annotated 6 times for cluster DE4.
- Start number 24 was manually annotated 1 time for cluster DE4.

Info for manual annotations of cluster DE5:

- Start number 17 was manually annotated 1 time for cluster DE5.

Info for manual annotations of cluster DG1:

- Start number 21 was manually annotated 5 times for cluster DG1.
- Start number 39 was manually annotated 1 time for cluster DG1.

Info for manual annotations of cluster DO:

- Start number 8 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DU2:

- Start number 8 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DY:

- Start number 23 was manually annotated 2 times for cluster DY.

### ***Gene Information:***

Gene: APunk\_42 Start: 36455, Stop: 37051, Start Num: 23

Candidate Starts for APunk\_42:

(Start: 15 @36431 has 1 MA's), (Start: 22 @36452 has 1 MA's), (Start: 23 @36455 has 85 MA's), (Start: 24 @36458 has 13 MA's), (Start: 36 @36530 has 1 MA's), (41, 36569), (45, 36593), (53, 36644), (55, 36677), (60, 36707), (61, 36716), (64, 36752), (65, 36758), (67, 36776), (69, 36785), (71, 36797), (78, 36854), (92, 36929), (101, 36980), (104, 36989), (111, 37034),

Gene: Abblin\_41 Start: 36995, Stop: 37594, Start Num: 22

Candidate Starts for Abblin\_41:

(Start: 15 @36974 has 1 MA's), (Start: 22 @36995 has 1 MA's), (Start: 23 @36998 has 85 MA's), (Start: 24 @37001 has 13 MA's), (Start: 36 @37073 has 1 MA's), (41, 37112), (45, 37136), (53, 37187), (55, 37220), (60, 37250), (61, 37259), (64, 37295), (65, 37301), (67, 37319), (69, 37328), (71, 37340), (78, 37397), (92, 37472), (101, 37523), (104, 37532), (111, 37577),

Gene: Agueybana\_30 Start: 26952, Stop: 27548, Start Num: 23

Candidate Starts for Agueybana\_30:

(Start: 23 @26952 has 85 MA's), (Start: 36 @27027 has 1 MA's), (45, 27090), (53, 27141), (55, 27174), (64, 27249), (65, 27255), (67, 27273), (88, 27405),



Gene: Ali17\_37 Start: 34722, Stop: 35318, Start Num: 23

Candidate Starts for Ali17\_37:

(Start: 15 @34698 has 1 MA's), (Start: 22 @34719 has 1 MA's), (Start: 23 @34722 has 85 MA's), (Start: 24 @34725 has 13 MA's), (Start: 36 @34797 has 1 MA's), (45, 34860), (53, 34911), (55, 34944), (61, 34983), (66, 35028), (67, 35043), (69, 35052), (71, 35064), (101, 35247), (111, 35301), (112, 35307),

Gene: AlumE\_30 Start: 26930, Stop: 27526, Start Num: 23

Candidate Starts for AlumE\_30:

(Start: 23 @26930 has 85 MA's), (45, 27068), (53, 27119), (55, 27152), (64, 27227), (65, 27233), (67, 27251), (80, 27338), (88, 27383), (104, 27464), (111, 27509),

Gene: Antonio\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Antonio\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Arri\_40 Start: 32893, Stop: 33489, Start Num: 23

Candidate Starts for Arri\_40:

(Start: 23 @32893 has 85 MA's), (45, 33031), (53, 33082), (55, 33115), (65, 33196), (88, 33346), (111, 33472),

Gene: Attis\_29 Start: 24850, Stop: 25446, Start Num: 23

Candidate Starts for Attis\_29:

(Start: 15 @24817 has 1 MA's), (Start: 23 @24850 has 85 MA's), (37, 24928), (45, 24988), (53, 25039), (55, 25072), (61, 25111), (64, 25147), (65, 25153), (88, 25303), (111, 25429),

Gene: Baddon\_40 Start: 36537, Stop: 37145, Start Num: 19

Candidate Starts for Baddon\_40:

(Start: 19 @36537 has 7 MA's), (30, 36585), (31, 36600), (38, 36642), (51, 36726), (54, 36759), (58, 36792), (64, 36852), (89, 37008), (109, 37116),

Gene: Barb\_39 Start: 32911, Stop: 33507, Start Num: 23

Candidate Starts for Barb\_39:

(Start: 23 @32911 has 85 MA's), (37, 32989), (45, 33049), (52, 33094), (53, 33100), (55, 33133), (61, 33172), (64, 33208), (65, 33214), (88, 33364), (111, 33490),

Gene: Barsten\_41 Start: 35914, Stop: 36504, Start Num: 24

Candidate Starts for Barsten\_41:

(Start: 24 @35914 has 13 MA's), (45, 36049), (53, 36100), (55, 36133), (61, 36172), (64, 36208), (67, 36232), (69, 36241), (87, 36361), (90, 36376), (92, 36385), (97, 36418), (104, 36445), (111, 36490),

Gene: BatStarr\_29 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for BatStarr\_29:

(Start: 23 @27051 has 85 MA's), (Start: 36 @27126 has 1 MA's), (45, 27189), (53, 27240), (55, 27273), (61, 27312), (64, 27348), (65, 27354), (102, 27579), (111, 27630), (112, 27636),

Gene: Baumdotcom\_39 Start: 35393, Stop: 35986, Start Num: 24

Candidate Starts for Baumdotcom\_39:

(Start: 24 @35393 has 13 MA's), (Start: 36 @35465 has 1 MA's), (45, 35531), (53, 35582), (55, 35615), (63, 35660), (64, 35690), (66, 35699), (75, 35762), (77, 35789), (96, 35894), (98, 35900), (111, 35969),

Gene: BaxterFox\_29 Start: 26326, Stop: 26847, Start Num: 36

Candidate Starts for BaxterFox\_29:

(Start: 36 @26326 has 1 MA's), (45, 26389), (53, 26440), (55, 26473), (69, 26581), (88, 26704), (91, 26719), (102, 26779), (104, 26785), (111, 26830),

Gene: Beyoncage\_28 Start: 25375, Stop: 25953, Start Num: 21

Candidate Starts for Beyoncage\_28:

(18, 25363), (Start: 21 @25375 has 8 MA's), (Start: 39 @25477 has 1 MA's), (54, 25579), (56, 25603), (103, 25891), (106, 25906), (111, 25939),

Gene: Bialota\_29 Start: 27074, Stop: 27670, Start Num: 23

Candidate Starts for Bialota\_29:

(Start: 15 @27047 has 1 MA's), (Start: 23 @27074 has 85 MA's), (Start: 36 @27149 has 1 MA's), (Start: 39 @27176 has 1 MA's), (45, 27212), (53, 27263), (55, 27296), (65, 27377), (69, 27404), (88, 27527), (111, 27653),

Gene: BiteSize\_28 Start: 25375, Stop: 25953, Start Num: 21

Candidate Starts for BiteSize\_28:

(18, 25363), (Start: 21 @25375 has 8 MA's), (Start: 39 @25477 has 1 MA's), (54, 25579), (56, 25603), (103, 25891), (106, 25906), (111, 25939),

Gene: Bizzy\_41 Start: 35684, Stop: 36280, Start Num: 24

Candidate Starts for Bizzy\_41:

(Start: 24 @35684 has 13 MA's), (Start: 39 @35783 has 1 MA's), (41, 35795), (45, 35819), (53, 35870), (55, 35903), (64, 35978), (66, 35987), (67, 36002), (70, 36014), (84, 36107), (87, 36131), (104, 36215), (113, 36269),

Gene: Bjaner7\_29 Start: 24850, Stop: 25446, Start Num: 23

Candidate Starts for Bjaner7\_29:

(Start: 15 @24817 has 1 MA's), (Start: 23 @24850 has 85 MA's), (37, 24928), (45, 24988), (53, 25039), (55, 25072), (61, 25111), (64, 25147), (65, 25153), (88, 25303), (111, 25429),

Gene: Bosnia\_29 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Bosnia\_29:

(Start: 23 @27051 has 85 MA's), (Start: 36 @27126 has 1 MA's), (45, 27189), (53, 27240), (55, 27273), (61, 27312), (64, 27348), (65, 27354), (102, 27579), (111, 27630), (112, 27636),

Gene: BoyNamedSue\_30 Start: 26930, Stop: 27526, Start Num: 23

Candidate Starts for BoyNamedSue\_30:

(Start: 23 @26930 has 85 MA's), (45, 27068), (53, 27119), (55, 27152), (64, 27227), (65, 27233), (67, 27251), (80, 27338), (88, 27383), (104, 27464), (111, 27509),

Gene: Cardigan\_61 Start: 43366, Stop: 43941, Start Num: 27

Candidate Starts for Cardigan\_61:

(6, 43135), (27, 43366), (53, 43537), (55, 43570), (64, 43645), (65, 43651), (99, 43861), (107, 43897),

Gene: ChadMasterC\_41 Start: 37313, Stop: 37903, Start Num: 24

Candidate Starts for ChadMasterC\_41:

(Start: 24 @37313 has 13 MA's), (Start: 39 @37412 has 1 MA's), (45, 37448), (53, 37499), (55, 37532), (61, 37571), (64, 37607), (67, 37631), (69, 37640), (87, 37760), (90, 37775), (92, 37784), (97, 37817), (104, 37844), (111, 37889),

Gene: CherryCola\_40 Start: 33666, Stop: 34262, Start Num: 23

Candidate Starts for CherryCola\_40:

(Start: 23 @33666 has 85 MA's), (45, 33804), (53, 33855), (55, 33888), (65, 33969), (88, 34119), (111, 34245),

Gene: CherryTomatoes\_99 Start: 56131, Stop: 56844, Start Num: 8

Candidate Starts for CherryTomatoes\_99:

(Start: 8 @56131 has 10 MA's), (10, 56140), (28, 56266), (43, 56368), (49, 56407), (50, 56413), (54, 56449), (56, 56473), (57, 56479), (59, 56491), (62, 56515), (63, 56518), (64, 56545), (65, 56551), (67, 56569), (74, 56614), (79, 56653), (82, 56662), (84, 56677), (100, 56767), (109, 56815), (111, 56830),

Gene: ClamChowder\_39 Start: 32911, Stop: 33507, Start Num: 23

Candidate Starts for ClamChowder\_39:

(Start: 23 @32911 has 85 MA's), (37, 32989), (45, 33049), (52, 33094), (53, 33100), (55, 33133), (61, 33172), (64, 33208), (65, 33214), (88, 33364), (111, 33490),

Gene: Clap\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Clap\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: CoveyB\_40 Start: 32711, Stop: 33307, Start Num: 23

Candidate Starts for CoveyB\_40:

(Start: 23 @32711 has 85 MA's), (37, 32789), (45, 32849), (53, 32900), (55, 32933), (61, 32972), (64, 33008), (65, 33014), (88, 33164), (111, 33290),

Gene: Cynthia\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Cynthia\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Danyall\_39 Start: 32713, Stop: 33309, Start Num: 23

Candidate Starts for Danyall\_39:

(Start: 23 @32713 has 85 MA's), (37, 32791), (45, 32851), (52, 32896), (53, 32902), (55, 32935), (58, 32944), (64, 33010), (65, 33016), (88, 33166), (111, 33292),

Gene: Delrey21\_40 Start: 37185, Stop: 37781, Start Num: 23

Candidate Starts for Delrey21\_40:

(Start: 15 @37161 has 1 MA's), (Start: 22 @37182 has 1 MA's), (Start: 23 @37185 has 85 MA's), (Start: 24 @37188 has 13 MA's), (Start: 36 @37260 has 1 MA's), (45, 37323), (53, 37374), (55, 37407), (61, 37446), (66, 37491), (67, 37506), (69, 37515), (71, 37527), (88, 37638), (93, 37662), (101, 37710),

Gene: Derg\_38 Start: 35289, Stop: 35894, Start Num: 19

Candidate Starts for Derg\_38:

(Start: 19 @35289 has 7 MA's), (31, 35352), (38, 35394), (51, 35478), (54, 35511), (56, 35535), (64, 35604), (73, 35658), (109, 35865),

Gene: Djokovic\_28 Start: 25476, Stop: 25952, Start Num: 39

Candidate Starts for Djokovic\_28:

(Start: 39 @25476 has 1 MA's), (54, 25578), (56, 25602), (103, 25890), (106, 25905), (111, 25938),

Gene: DoctorFroggo\_40 Start: 37185, Stop: 37781, Start Num: 23

Candidate Starts for DoctorFroggo\_40:

(Start: 15 @37161 has 1 MA's), (Start: 22 @37182 has 1 MA's), (Start: 23 @37185 has 85 MA's), (Start: 24 @37188 has 13 MA's), (Start: 36 @37260 has 1 MA's), (45, 37323), (53, 37374), (55, 37407), (61, 37446), (66, 37491), (67, 37506), (69, 37515), (71, 37527), (88, 37638), (93, 37662), (101, 37710),

Gene: EMoore\_37 Start: 35897, Stop: 36493, Start Num: 23

Candidate Starts for EMoore\_37:

(Start: 15 @35873 has 1 MA's), (Start: 22 @35894 has 1 MA's), (Start: 23 @35897 has 85 MA's), (Start: 24 @35900 has 13 MA's), (Start: 36 @35972 has 1 MA's), (41, 36011), (45, 36035), (53, 36086), (55, 36119), (60, 36149), (61, 36158), (64, 36194), (66, 36203), (69, 36227), (84, 36323), (88, 36350), (93, 36374), (104, 36431), (111, 36476),

Gene: Ebert\_30 Start: 24776, Stop: 25375, Start Num: 23

Candidate Starts for Ebert\_30:

(Start: 23 @24776 has 85 MA's), (45, 24917), (46, 24923), (53, 24968), (55, 25001), (58, 25010), (64, 25076), (65, 25082), (69, 25109), (86, 25220), (88, 25232), (111, 25358),

Gene: EdnaMode\_27 Start: 23538, Stop: 24134, Start Num: 23

Candidate Starts for EdnaMode\_27:

(Start: 15 @23505 has 1 MA's), (Start: 23 @23538 has 85 MA's), (37, 23616), (45, 23676), (53, 23727), (55, 23760), (61, 23799), (64, 23835), (65, 23841), (88, 23991), (111, 24117),

Gene: Eudoria\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Eudoria\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Evamon\_36 Start: 32732, Stop: 33328, Start Num: 23

Candidate Starts for Evamon\_36:

(Start: 23 @32732 has 85 MA's), (37, 32810), (45, 32870), (53, 32921), (55, 32954), (61, 32993), (64, 33029), (65, 33035), (88, 33185), (111, 33311),

Gene: Eviarto\_29 Start: 27027, Stop: 27623, Start Num: 23

Candidate Starts for Eviarto\_29:

(Start: 23 @27027 has 85 MA's), (Start: 36 @27102 has 1 MA's), (45, 27165), (53, 27216), (55, 27249), (61, 27288), (64, 27324), (65, 27330), (102, 27555), (111, 27606), (112, 27612),

Gene: Fireball\_37 Start: 32855, Stop: 33451, Start Num: 23

Candidate Starts for Fireball\_37:

(Start: 23 @32855 has 85 MA's), (37, 32933), (45, 32993), (53, 33044), (55, 33077), (61, 33116), (64, 33152), (65, 33158), (88, 33308), (111, 33434),

Gene: Fitzgerald\_39 Start: 36588, Stop: 37187, Start Num: 19

Candidate Starts for Fitzgerald\_39:

(Start: 19 @36588 has 7 MA's), (30, 36636), (31, 36651), (38, 36693), (44, 36726), (48, 36756), (62, 36864), (64, 36894), (73, 36948), (109, 37158),

Gene: Flatwoods\_41 Start: 35641, Stop: 36246, Start Num: 19

Candidate Starts for Flatwoods\_41:

(Start: 19 @35641 has 7 MA's), (31, 35704), (38, 35746), (51, 35830), (54, 35863), (56, 35887), (64, 35956), (73, 36010), (109, 36217),

Gene: FuegoCuervo\_43 Start: 35010, Stop: 35603, Start Num: 24

Candidate Starts for FuegoCuervo\_43:

(Start: 24 @35010 has 13 MA's), (Start: 39 @35109 has 1 MA's), (45, 35145), (53, 35196), (55, 35229), (86, 35448), (88, 35460), (95, 35508),

Gene: Fugax\_40 Start: 32903, Stop: 33499, Start Num: 23

Candidate Starts for Fugax\_40:

(Start: 23 @32903 has 85 MA's), (37, 32981), (45, 33041), (52, 33086), (53, 33092), (55, 33125), (61, 33164), (64, 33200), (65, 33206), (88, 33356), (111, 33482),

Gene: GMA3\_21 Start: 33213, Stop: 33800, Start Num: 26

Candidate Starts for GMA3\_21:

(7, 33027), (26, 33213), (31, 33252),

Gene: Gaea\_40 Start: 35289, Stop: 35882, Start Num: 24

Candidate Starts for Gaea\_40:

(Start: 24 @35289 has 13 MA's), (Start: 36 @35361 has 1 MA's), (45, 35427), (53, 35478), (55, 35511), (63, 35556), (64, 35586), (66, 35595), (75, 35658), (77, 35685), (96, 35790), (98, 35796), (111, 35865),

Gene: GemG\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for GemG\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Geodirt\_39 Start: 36549, Stop: 37142, Start Num: 24

Candidate Starts for Geodirt\_39:

(Start: 24 @36549 has 13 MA's), (Start: 39 @36648 has 1 MA's), (45, 36684), (53, 36735), (55, 36768), (86, 36987), (88, 36999), (95, 37047),

Gene: Gezellig\_37 Start: 32864, Stop: 33460, Start Num: 23

Candidate Starts for Gezellig\_37:

(Start: 23 @32864 has 85 MA's), (37, 32942), (45, 33002), (53, 33053), (55, 33086), (61, 33125), (64, 33161), (65, 33167), (88, 33317), (96, 33368), (111, 33443),

Gene: Gizermo\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Gizermo\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Gustavo\_40 Start: 35444, Stop: 36034, Start Num: 24

Candidate Starts for Gustavo\_40:

(Start: 24 @35444 has 13 MA's), (32, 35498), (Start: 36 @35516 has 1 MA's), (41, 35555), (45, 35579), (53, 35630), (55, 35663), (62, 35705), (63, 35708), (64, 35738), (66, 35747), (75, 35810), (77, 35837), (92, 35912), (98, 35948), (111, 36017),

Gene: Haley23\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Haley23\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Halo3\_37 Start: 33157, Stop: 33753, Start Num: 23

Candidate Starts for Halo3\_37:

(Start: 23 @33157 has 85 MA's), (37, 33235), (45, 33295), (53, 33346), (55, 33379), (61, 33418), (64, 33454), (65, 33460), (88, 33610), (111, 33736),

Gene: Hans\_41 Start: 35362, Stop: 35958, Start Num: 23

Candidate Starts for Hans\_41:

(Start: 15 @35338 has 1 MA's), (Start: 22 @35359 has 1 MA's), (Start: 23 @35362 has 85 MA's), (Start: 24 @35365 has 13 MA's), (Start: 36 @35437 has 1 MA's), (45, 35500), (53, 35551), (55, 35584), (61, 35623), (66, 35668), (67, 35683), (69, 35692), (88, 35815), (101, 35887), (111, 35941),

Gene: Herod\_29 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Herod\_29:

(Start: 23 @27051 has 85 MA's), (Start: 36 @27126 has 1 MA's), (45, 27189), (53, 27240), (55, 27273), (61, 27312), (64, 27348), (65, 27354), (102, 27579), (111, 27630), (112, 27636),

Gene: Hugley\_28 Start: 27050, Stop: 27646, Start Num: 23

Candidate Starts for Hugley\_28:

(Start: 23 @27050 has 85 MA's), (Start: 36 @27125 has 1 MA's), (45, 27188), (53, 27239), (55, 27272), (61, 27311), (64, 27347), (65, 27353), (102, 27578), (111, 27629), (112, 27635),

Gene: Hyzer\_32 Start: 28151, Stop: 28747, Start Num: 23

Candidate Starts for Hyzer\_32:

(Start: 23 @28151 has 85 MA's), (Start: 36 @28226 has 1 MA's), (45, 28289), (53, 28340), (55, 28373), (64, 28448), (65, 28454), (67, 28472), (76, 28535), (88, 28604), (111, 28730),

Gene: Inspectinfecti\_40 Start: 35808, Stop: 36404, Start Num: 23

Candidate Starts for Inspectinfecti\_40:

(Start: 15 @35784 has 1 MA's), (Start: 22 @35805 has 1 MA's), (Start: 23 @35808 has 85 MA's), (Start: 24 @35811 has 13 MA's), (Start: 36 @35883 has 1 MA's), (45, 35946), (52, 35991), (53, 35997), (55, 36030), (61, 36069), (64, 36105), (65, 36111), (67, 36129), (69, 36138), (71, 36150), (88, 36261), (101, 36333), (111, 36387),

Gene: JKSyngboy\_38 Start: 36019, Stop: 36615, Start Num: 24

Candidate Starts for JKSyngboy\_38:

(Start: 24 @36019 has 13 MA's), (41, 36130), (45, 36154), (53, 36205), (55, 36238), (64, 36313), (66, 36322), (67, 36337), (70, 36349), (84, 36442), (87, 36466), (104, 36550), (113, 36604),

Gene: Jabberwocky\_39 Start: 36992, Stop: 37591, Start Num: 19

Candidate Starts for Jabberwocky\_39:

(Start: 19 @36992 has 7 MA's), (30, 37040), (31, 37055), (38, 37097), (44, 37130), (48, 37160), (62, 37268), (64, 37298), (73, 37352), (109, 37562),

Gene: Jambalaya\_36 Start: 32511, Stop: 33107, Start Num: 23

Candidate Starts for Jambalaya\_36:

(Start: 23 @32511 has 85 MA's), (37, 32589), (45, 32649), (53, 32700), (55, 32733), (61, 32772), (64, 32808), (65, 32814), (88, 32964), (111, 33090),

Gene: Jojo24\_28 Start: 23774, Stop: 24370, Start Num: 23

Candidate Starts for Jojo24\_28:

(Start: 23 @23774 has 85 MA's), (35, 23846), (45, 23912), (52, 23957), (53, 23963), (55, 23996), (61, 24035), (65, 24077), (87, 24224), (88, 24227), (91, 24242), (93, 24251), (102, 24302),

Gene: Kewpiedoll\_40 Start: 35851, Stop: 36441, Start Num: 24

Candidate Starts for Kewpiedoll\_40:

(Start: 24 @35851 has 13 MA's), (Start: 39 @35950 has 1 MA's), (45, 35986), (53, 36037), (55, 36070), (61, 36109), (64, 36145), (67, 36169), (69, 36178), (87, 36298), (90, 36313), (92, 36322), (97, 36355),

(104, 36382), (111, 36427),

Gene: KimmyK\_38 Start: 33446, Stop: 34042, Start Num: 23

Candidate Starts for KimmyK\_38:

(Start: 23 @33446 has 85 MA's), (37, 33524), (45, 33584), (53, 33635), (55, 33668), (61, 33707), (64, 33743), (65, 33749), (88, 33899), (111, 34025),

Gene: Kita\_31 Start: 27060, Stop: 27656, Start Num: 23

Candidate Starts for Kita\_31:

(Start: 23 @27060 has 85 MA's), (Start: 39 @27162 has 1 MA's), (45, 27198), (52, 27243), (53, 27249), (55, 27282), (58, 27291), (65, 27363), (67, 27381), (111, 27639),

Gene: Kroos\_41 Start: 36197, Stop: 36802, Start Num: 19

Candidate Starts for Kroos\_41:

(Start: 19 @36197 has 7 MA's), (31, 36260), (38, 36302), (51, 36386), (54, 36419), (56, 36443), (64, 36512), (73, 36566), (109, 36773),

Gene: Kwobi\_41 Start: 36183, Stop: 36776, Start Num: 24

Candidate Starts for Kwobi\_41:

(Start: 24 @36183 has 13 MA's), (Start: 36 @36255 has 1 MA's), (45, 36321), (53, 36372), (55, 36405), (63, 36450), (64, 36480), (66, 36489), (75, 36552), (77, 36579), (96, 36684), (98, 36690), (111, 36759),

Gene: Lamberg\_27 Start: 23538, Stop: 24134, Start Num: 23

Candidate Starts for Lamberg\_27:

(Start: 15 @23505 has 1 MA's), (Start: 23 @23538 has 85 MA's), (37, 23616), (45, 23676), (53, 23727), (55, 23760), (61, 23799), (64, 23835), (65, 23841), (88, 23991), (111, 24117),

Gene: Leonard\_39 Start: 35447, Stop: 36043, Start Num: 23

Candidate Starts for Leonard\_39:

(Start: 15 @35423 has 1 MA's), (Start: 22 @35444 has 1 MA's), (Start: 23 @35447 has 85 MA's), (Start: 24 @35450 has 13 MA's), (Start: 36 @35522 has 1 MA's), (45, 35585), (53, 35636), (55, 35669), (61, 35708), (65, 35750), (67, 35768), (69, 35777), (71, 35789), (101, 35972), (111, 36026), (112, 36032),

Gene: LilHam\_38 Start: 34786, Stop: 35379, Start Num: 24

Candidate Starts for LilHam\_38:

(Start: 24 @34786 has 13 MA's), (Start: 36 @34858 has 1 MA's), (45, 34924), (53, 34975), (55, 35008), (63, 35053), (64, 35083), (66, 35092), (75, 35155), (77, 35182), (96, 35287), (98, 35293), (111, 35362),

Gene: Lilbeanie\_36 Start: 30442, Stop: 31050, Start Num: 17

Candidate Starts for Lilbeanie\_36:

(11, 30373), (Start: 17 @30442 has 1 MA's), (Start: 39 @30553 has 1 MA's), (40, 30562), (51, 30631), (54, 30664), (57, 30694), (64, 30757), (73, 30811), (74, 30826), (89, 30913), (109, 31021),

Gene: LordFarquaad\_29 Start: 24850, Stop: 25446, Start Num: 23

Candidate Starts for LordFarquaad\_29:

(Start: 15 @24817 has 1 MA's), (Start: 23 @24850 has 85 MA's), (37, 24928), (45, 24988), (53, 25039), (55, 25072), (61, 25111), (64, 25147), (65, 25153), (88, 25303), (111, 25429),

Gene: Lozinak\_60 Start: 40445, Stop: 41149, Start Num: 8

Candidate Starts for Lozinak\_60:

(Start: 8 @40445 has 10 MA's), (13, 40496), (20, 40535), (31, 40595), (42, 40652), (51, 40712), (57, 40775), (58, 40778), (63, 40814), (64, 40841), (67, 40865), (74, 40910), (91, 41021), (100, 41072),

(108, 41114), (111, 41135),

Gene: Madeline\_29 Start: 27349, Stop: 27930, Start Num: 21

Candidate Starts for Madeline\_29:

(Start: 21 @27349 has 8 MA's), (67, 27673), (69, 27682), (78, 27751), (79, 27757), (94, 27829),

Gene: Madi\_28 Start: 25375, Stop: 25953, Start Num: 21

Candidate Starts for Madi\_28:

(18, 25363), (Start: 21 @25375 has 8 MA's), (Start: 39 @25477 has 1 MA's), (54, 25579), (56, 25603), (103, 25891), (106, 25906), (111, 25939),

Gene: Manasvini\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Manasvini\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Maridalia\_30 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Maridalia\_30:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: MelBins\_40 Start: 35593, Stop: 36189, Start Num: 23

Candidate Starts for MelBins\_40:

(Start: 15 @35569 has 1 MA's), (Start: 22 @35590 has 1 MA's), (Start: 23 @35593 has 85 MA's), (Start: 24 @35596 has 13 MA's), (Start: 36 @35668 has 1 MA's), (45, 35731), (53, 35782), (55, 35815), (61, 35854), (64, 35890), (65, 35896), (67, 35914), (69, 35923), (71, 35935), (88, 36046), (96, 36097), (101, 36118), (111, 36172),

Gene: Mocha12\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Mocha12\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: MoontowerMania\_40 Start: 36310, Stop: 36903, Start Num: 24

Candidate Starts for MoontowerMania\_40:

(Start: 24 @36310 has 13 MA's), (Start: 39 @36409 has 1 MA's), (45, 36445), (53, 36496), (55, 36529), (86, 36748), (88, 36760), (95, 36808),

Gene: Natkenzie\_41 Start: 36995, Stop: 37594, Start Num: 22

Candidate Starts for Natkenzie\_41:

(Start: 15 @36974 has 1 MA's), (Start: 22 @36995 has 1 MA's), (Start: 23 @36998 has 85 MA's), (Start: 24 @37001 has 13 MA's), (Start: 36 @37073 has 1 MA's), (41, 37112), (45, 37136), (53, 37187), (55, 37220), (60, 37250), (61, 37259), (64, 37295), (65, 37301), (67, 37319), (69, 37328), (71, 37340), (78, 37397), (92, 37472), (101, 37523), (104, 37532), (111, 37577),

Gene: Neobush\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Neobush\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Nettuno\_27 Start: 23538, Stop: 24134, Start Num: 23

Candidate Starts for Nettuno\_27:



(Start: 15 @23505 has 1 MA's), (Start: 23 @23538 has 85 MA's), (37, 23616), (45, 23676), (53, 23727), (55, 23760), (61, 23799), (64, 23835), (65, 23841), (88, 23991), (111, 24117),

Gene: Neville\_33 Start: 28765, Stop: 29457, Start Num: 8

Candidate Starts for Neville\_33:

(Start: 8 @28765 has 10 MA's), (9, 28771), (14, 28819), (29, 28900), (31, 28918), (33, 28927), (Start: 39 @28966 has 1 MA's), (43, 28990), (51, 29038), (62, 29134), (63, 29137), (64, 29164), (73, 29218), (82, 29281), (91, 29329), (105, 29401), (109, 29428), (110, 29434),

Gene: Nubi\_37 Start: 32735, Stop: 33331, Start Num: 23

Candidate Starts for Nubi\_37:

(Start: 23 @32735 has 85 MA's), (37, 32813), (45, 32873), (53, 32924), (55, 32957), (61, 32996), (64, 33032), (65, 33038), (88, 33188), (111, 33314),

Gene: Nymphadora\_29 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Nymphadora\_29:

(Start: 23 @27051 has 85 MA's), (Start: 36 @27126 has 1 MA's), (45, 27189), (53, 27240), (55, 27273), (61, 27312), (64, 27348), (65, 27354), (102, 27579), (111, 27630), (112, 27636),

Gene: Ohgeesy\_29 Start: 26673, Stop: 27269, Start Num: 23

Candidate Starts for Ohgeesy\_29:

(3, 25836), (Start: 15 @26646 has 1 MA's), (Start: 23 @26673 has 85 MA's), (Start: 24 @26676 has 13 MA's), (Start: 36 @26748 has 1 MA's), (Start: 39 @26775 has 1 MA's), (45, 26811), (47, 26829), (53, 26862), (55, 26895), (64, 26970), (65, 26976), (67, 26994), (88, 27126),

Gene: PantheRoc\_30 Start: 26218, Stop: 26844, Start Num: 15

Candidate Starts for PantheRoc\_30:

(3, 25408), (Start: 15 @26218 has 1 MA's), (29, 26287), (45, 26386), (47, 26404), (53, 26437), (55, 26470), (64, 26545), (65, 26551), (67, 26569), (88, 26701), (111, 26827),

Gene: Phinally\_39 Start: 35444, Stop: 36040, Start Num: 23

Candidate Starts for Phinally\_39:

(Start: 15 @35420 has 1 MA's), (Start: 22 @35441 has 1 MA's), (Start: 23 @35444 has 85 MA's), (Start: 24 @35447 has 13 MA's), (Start: 36 @35519 has 1 MA's), (45, 35582), (53, 35633), (55, 35666), (61, 35705), (65, 35747), (67, 35765), (69, 35774), (71, 35786), (101, 35969), (111, 36023), (112, 36029),

Gene: Phlop\_36 Start: 32816, Stop: 33412, Start Num: 23

Candidate Starts for Phlop\_36:

(Start: 23 @32816 has 85 MA's), (37, 32894), (45, 32954), (53, 33005), (55, 33038), (61, 33077), (64, 33113), (65, 33119), (88, 33269), (111, 33395),

Gene: PinkCoffee\_39 Start: 32920, Stop: 33516, Start Num: 23

Candidate Starts for PinkCoffee\_39:

(Start: 23 @32920 has 85 MA's), (37, 32998), (45, 33058), (52, 33103), (53, 33109), (55, 33142), (61, 33181), (64, 33217), (65, 33223), (88, 33373), (111, 33499),

Gene: Polly\_28 Start: 26494, Stop: 27090, Start Num: 23

Candidate Starts for Polly\_28:

(Start: 23 @26494 has 85 MA's), (Start: 39 @26596 has 1 MA's), (45, 26632), (52, 26677), (53, 26683), (55, 26716), (58, 26725), (65, 26797), (67, 26815), (111, 27073),

Gene: Portcullis\_37 Start: 32232, Stop: 32828, Start Num: 23

Candidate Starts for Portcullis\_37:

(Start: 23 @32232 has 85 MA's), (37, 32310), (45, 32370), (52, 32415), (53, 32421), (55, 32454), (58, 32463), (64, 32529), (65, 32535), (88, 32685), (111, 32811),

Gene: PullumCavea\_36 Start: 32816, Stop: 33412, Start Num: 23

Candidate Starts for PullumCavea\_36:

(Start: 23 @32816 has 85 MA's), (37, 32894), (45, 32954), (53, 33005), (55, 33038), (61, 33077), (64, 33113), (65, 33119), (88, 33269), (111, 33395),

Gene: Pupper\_99 Start: 56252, Stop: 56965, Start Num: 8

Candidate Starts for Pupper\_99:

(Start: 8 @56252 has 10 MA's), (10, 56261), (28, 56387), (49, 56528), (50, 56534), (54, 56570), (56, 56594), (57, 56600), (59, 56612), (62, 56636), (63, 56639), (65, 56672), (67, 56690), (74, 56735), (79, 56774), (82, 56783), (84, 56798), (109, 56936), (111, 56951),

Gene: Rabbitrun\_35 Start: 29229, Stop: 29918, Start Num: 8

Candidate Starts for Rabbitrun\_35:

(Start: 8 @29229 has 10 MA's), (9, 29235), (14, 29283), (25, 29346), (29, 29364), (31, 29382), (33, 29391), (34, 29397), (38, 29424), (Start: 39 @29430 has 1 MA's), (51, 29499), (54, 29532), (57, 29562), (58, 29565), (64, 29625), (74, 29694), (78, 29727), (81, 29739), (85, 29754), (89, 29781), (109, 29889), (110, 29895),

Gene: Reyja\_29 Start: 24134, Stop: 24733, Start Num: 23

Candidate Starts for Reyja\_29:

(1, 22841), (2, 23072), (3, 23297), (Start: 15 @24107 has 1 MA's), (Start: 23 @24134 has 85 MA's), (Start: 24 @24137 has 13 MA's), (Start: 36 @24209 has 1 MA's), (45, 24275), (53, 24326), (55, 24359), (58, 24368), (61, 24398), (65, 24440), (67, 24458), (68, 24464), (71, 24479), (88, 24590), (91, 24605), (104, 24671), (111, 24716), (112, 24722),

Gene: Ribeye\_41 Start: 36601, Stop: 37197, Start Num: 24

Candidate Starts for Ribeye\_41:

(Start: 24 @36601 has 13 MA's), (Start: 39 @36700 has 1 MA's), (41, 36712), (45, 36736), (53, 36787), (55, 36820), (64, 36895), (66, 36904), (67, 36919), (70, 36931), (84, 37024), (87, 37048), (104, 37132), (113, 37186),

Gene: RiverRaider\_41 Start: 34818, Stop: 35408, Start Num: 24

Candidate Starts for RiverRaider\_41:

(Start: 24 @34818 has 13 MA's), (Start: 36 @34890 has 1 MA's), (41, 34929), (45, 34953), (53, 35004), (55, 35037), (61, 35076), (63, 35082), (66, 35121), (69, 35145), (71, 35157), (72, 35160), (79, 35220), (97, 35322), (98, 35325), (111, 35394),

Gene: RogerDodger\_40 Start: 33061, Stop: 33657, Start Num: 23

Candidate Starts for RogerDodger\_40:

(Start: 23 @33061 has 85 MA's), (45, 33199), (53, 33250), (55, 33283), (65, 33364), (88, 33514), (111, 33640),

Gene: SCentae\_98 Start: 56398, Stop: 57111, Start Num: 8

Candidate Starts for SCentae\_98:

(Start: 8 @56398 has 10 MA's), (10, 56407), (28, 56533), (49, 56674), (50, 56680), (54, 56716), (56, 56740), (57, 56746), (59, 56758), (62, 56782), (63, 56785), (65, 56818), (67, 56836), (74, 56881), (79, 56920), (82, 56929), (84, 56944), (109, 57082), (111, 57097),

Gene: Sahara\_28 Start: 24522, Stop: 25121, Start Num: 23

Candidate Starts for Sahara\_28:

(Start: 23 @24522 has 85 MA's), (45, 24663), (46, 24669), (53, 24714), (55, 24747), (58, 24756), (64, 24822), (65, 24828), (69, 24855), (86, 24966), (88, 24978), (111, 25104),

Gene: Salvador\_36 Start: 32730, Stop: 33326, Start Num: 23

Candidate Starts for Salvador\_36:

(Start: 23 @32730 has 85 MA's), (37, 32808), (45, 32868), (53, 32919), (55, 32952), (61, 32991), (64, 33027), (65, 33033), (88, 33183), (111, 33309),

Gene: Sampson\_41 Start: 36940, Stop: 37539, Start Num: 22

Candidate Starts for Sampson\_41:

(Start: 15 @36919 has 1 MA's), (Start: 22 @36940 has 1 MA's), (Start: 23 @36943 has 85 MA's), (Start: 24 @36946 has 13 MA's), (Start: 36 @37018 has 1 MA's), (41, 37057), (45, 37081), (53, 37132), (55, 37165), (60, 37195), (61, 37204), (64, 37240), (65, 37246), (67, 37264), (69, 37273), (71, 37285), (78, 37342), (92, 37417), (101, 37468), (104, 37477), (111, 37522),

Gene: Sanjuju\_39 Start: 36721, Stop: 37320, Start Num: 19

Candidate Starts for Sanjuju\_39:

(Start: 19 @36721 has 7 MA's), (30, 36769), (31, 36784), (38, 36826), (44, 36859), (48, 36889), (62, 36997), (64, 37027), (73, 37081), (109, 37291),

Gene: Sapo\_27 Start: 24286, Stop: 24900, Start Num: 21

Candidate Starts for Sapo\_27:

(12, 24220), (Start: 21 @24286 has 8 MA's), (29, 24331), (31, 24349), (63, 24571), (64, 24598), (65, 24604), (67, 24622), (83, 24730), (98, 24814), (108, 24865), (112, 24892),

Gene: Saronaya\_40 Start: 35444, Stop: 36034, Start Num: 24

Candidate Starts for Saronaya\_40:

(Start: 24 @35444 has 13 MA's), (32, 35498), (Start: 36 @35516 has 1 MA's), (41, 35555), (45, 35579), (53, 35630), (55, 35663), (62, 35705), (63, 35708), (64, 35738), (66, 35747), (75, 35810), (77, 35837), (92, 35912), (98, 35948), (111, 36017),

Gene: Savage\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Savage\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Savbucketdawg\_36 Start: 32511, Stop: 33107, Start Num: 23

Candidate Starts for Savbucketdawg\_36:

(Start: 23 @32511 has 85 MA's), (37, 32589), (45, 32649), (53, 32700), (55, 32733), (61, 32772), (64, 32808), (65, 32814), (88, 32964), (111, 33090),

Gene: SchottB\_39 Start: 36459, Stop: 37052, Start Num: 24

Candidate Starts for SchottB\_39:

(Start: 24 @36459 has 13 MA's), (Start: 36 @36531 has 1 MA's), (45, 36597), (53, 36648), (55, 36681), (63, 36726), (64, 36756), (66, 36765), (75, 36828), (77, 36855), (96, 36960), (98, 36966), (111, 37035),

Gene: Scioto\_42 Start: 36999, Stop: 37595, Start Num: 23

Candidate Starts for Scioto\_42:

(Start: 15 @36975 has 1 MA's), (Start: 22 @36996 has 1 MA's), (Start: 23 @36999 has 85 MA's), (Start: 24 @37002 has 13 MA's), (Start: 36 @37074 has 1 MA's), (41, 37113), (45, 37137), (53, 37188), (55, 37221), (60, 37251), (61, 37260), (64, 37296), (65, 37302), (67, 37320), (69, 37329), (71, 37341), (78, 37398), (92, 37473), (101, 37524), (104, 37533), (111, 37578),

Gene: Shinji\_37 Start: 32173, Stop: 32769, Start Num: 23

Candidate Starts for Shinji\_37:

(Start: 23 @32173 has 85 MA's), (37, 32251), (45, 32311), (53, 32362), (55, 32395), (64, 32470), (65, 32476), (88, 32626), (111, 32752),

Gene: Sidious\_31 Start: 27479, Stop: 28075, Start Num: 23

Candidate Starts for Sidious\_31:

(Start: 23 @27479 has 85 MA's), (Start: 39 @27581 has 1 MA's), (45, 27617), (53, 27668), (55, 27701), (64, 27776), (65, 27782), (88, 27932), (111, 28058),

Gene: Sienna\_28 Start: 25375, Stop: 25953, Start Num: 21

Candidate Starts for Sienna\_28:

(18, 25363), (Start: 21 @25375 has 8 MA's), (Start: 39 @25477 has 1 MA's), (54, 25579), (56, 25603), (103, 25891), (106, 25906), (111, 25939),

Gene: Skog\_162 Start: 86948, Stop: 87661, Start Num: 8

Candidate Starts for Skog\_162:

(4, 86723), (5, 86792), (Start: 8 @86948 has 10 MA's), (10, 86957), (28, 87083), (50, 87230), (54, 87266), (56, 87290), (57, 87296), (63, 87335), (65, 87368), (67, 87386), (74, 87431), (79, 87470), (82, 87479), (84, 87494), (100, 87584), (109, 87632), (111, 87647),

Gene: SmokingBunny\_36 Start: 32721, Stop: 33317, Start Num: 23

Candidate Starts for SmokingBunny\_36:

(Start: 23 @32721 has 85 MA's), (37, 32799), (45, 32859), (53, 32910), (55, 32943), (61, 32982), (64, 33018), (65, 33024), (88, 33174), (111, 33300),

Gene: Smoothie\_61 Start: 40445, Stop: 41149, Start Num: 8

Candidate Starts for Smoothie\_61:

(Start: 8 @40445 has 10 MA's), (13, 40496), (20, 40535), (31, 40595), (42, 40652), (51, 40712), (57, 40775), (58, 40778), (63, 40814), (64, 40841), (67, 40865), (74, 40910), (91, 41021), (100, 41072), (108, 41114), (111, 41135),

Gene: Sproutie\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Sproutie\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Stultus\_39 Start: 35616, Stop: 36209, Start Num: 24

Candidate Starts for Stultus\_39:

(Start: 24 @35616 has 13 MA's), (Start: 39 @35715 has 1 MA's), (45, 35751), (53, 35802), (55, 35835), (86, 36054), (88, 36066), (95, 36114),

Gene: Suscepit\_31 Start: 27052, Stop: 27648, Start Num: 23

Candidate Starts for Suscepit\_31:

(Start: 23 @27052 has 85 MA's), (Start: 39 @27154 has 1 MA's), (45, 27190), (52, 27235), (53, 27241), (55, 27274), (58, 27283), (65, 27355), (67, 27373), (111, 27631),

Gene: Tangerine\_40 Start: 35329, Stop: 35934, Start Num: 19

Candidate Starts for Tangerine\_40:

(Start: 19 @35329 has 7 MA's), (31, 35392), (38, 35434), (51, 35518), (54, 35551), (56, 35575), (64, 35644), (73, 35698), (109, 35905),

Gene: Tardus\_42 Start: 36353, Stop: 36949, Start Num: 23

Candidate Starts for Tardus\_42:

(Start: 15 @36329 has 1 MA's), (Start: 22 @36350 has 1 MA's), (Start: 23 @36353 has 85 MA's), (Start: 24 @36356 has 13 MA's), (Start: 36 @36428 has 1 MA's), (45, 36491), (53, 36542), (55, 36575), (61, 36614), (66, 36659), (67, 36674), (69, 36683), (71, 36695), (93, 36830), (101, 36878), (111, 36932),

Gene: Tayonia\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Tayonia\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Terapin\_29 Start: 25376, Stop: 25954, Start Num: 21

Candidate Starts for Terapin\_29:

(18, 25364), (Start: 21 @25376 has 8 MA's), (Start: 39 @25478 has 1 MA's), (54, 25580), (56, 25604), (103, 25892), (106, 25907), (111, 25940),

Gene: ThankyouJordi\_28 Start: 26876, Stop: 27472, Start Num: 23

Candidate Starts for ThankyouJordi\_28:

(Start: 23 @26876 has 85 MA's), (Start: 36 @26951 has 1 MA's), (Start: 39 @26978 has 1 MA's), (45, 27014), (53, 27065), (55, 27098), (65, 27179), (69, 27206), (88, 27329), (93, 27353), (111, 27455),

Gene: TillyBobJoe\_36 Start: 32525, Stop: 33121, Start Num: 23

Candidate Starts for TillyBobJoe\_36:

(Start: 23 @32525 has 85 MA's), (37, 32603), (45, 32663), (53, 32714), (55, 32747), (61, 32786), (64, 32822), (65, 32828), (88, 32978), (111, 33104),

Gene: TimTam\_29 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for TimTam\_29:

(Start: 23 @27051 has 85 MA's), (Start: 36 @27126 has 1 MA's), (45, 27189), (53, 27240), (55, 27273), (61, 27312), (64, 27348), (65, 27354), (102, 27579), (111, 27630), (112, 27636),

Gene: Togo\_36 Start: 32721, Stop: 33317, Start Num: 23

Candidate Starts for Togo\_36:

(Start: 23 @32721 has 85 MA's), (37, 32799), (45, 32859), (53, 32910), (55, 32943), (61, 32982), (64, 33018), (65, 33024), (88, 33174), (111, 33300),

Gene: Trax\_33 Start: 29071, Stop: 29763, Start Num: 8

Candidate Starts for Trax\_33:

(Start: 8 @29071 has 10 MA's), (9, 29077), (14, 29125), (29, 29206), (31, 29224), (33, 29233), (Start: 39 @29272 has 1 MA's), (43, 29296), (51, 29344), (62, 29440), (63, 29443), (64, 29470), (73, 29524), (82, 29587), (91, 29635), (105, 29707), (109, 29734), (110, 29740),

Gene: Trumpet\_31 Start: 27052, Stop: 27648, Start Num: 23

Candidate Starts for Trumpet\_31:

(Start: 23 @27052 has 85 MA's), (Start: 39 @27154 has 1 MA's), (45, 27190), (52, 27235), (53, 27241), (55, 27274), (58, 27283), (65, 27355), (67, 27373), (111, 27631),

Gene: TuertoX\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for TuertoX\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: Twister6\_39 Start: 32624, Stop: 33220, Start Num: 23

Candidate Starts for Twister6\_39:

(Start: 23 @32624 has 85 MA's), (37, 32702), (45, 32762), (52, 32807), (53, 32813), (55, 32846), (58, 32855), (64, 32921), (65, 32927), (88, 33077), (111, 33203),

Gene: Tycho\_40 Start: 35418, Stop: 36011, Start Num: 24

Candidate Starts for Tycho\_40:

(Start: 24 @35418 has 13 MA's), (Start: 36 @35490 has 1 MA's), (45, 35556), (53, 35607), (55, 35640), (63, 35685), (64, 35715), (66, 35724), (75, 35787), (77, 35814), (96, 35919), (98, 35925), (111, 35994),

Gene: Valary\_39 Start: 33666, Stop: 34262, Start Num: 23

Candidate Starts for Valary\_39:

(Start: 23 @33666 has 85 MA's), (45, 33804), (53, 33855), (55, 33888), (65, 33969), (88, 34119), (111, 34245),

Gene: VanDeWege\_40 Start: 32958, Stop: 33554, Start Num: 23

Candidate Starts for VanDeWege\_40:

(Start: 23 @32958 has 85 MA's), (37, 33036), (45, 33096), (53, 33147), (55, 33180), (65, 33261), (88, 33411), (111, 33537),

Gene: Verity\_40 Start: 37185, Stop: 37781, Start Num: 23

Candidate Starts for Verity\_40:

(Start: 15 @37161 has 1 MA's), (Start: 22 @37182 has 1 MA's), (Start: 23 @37185 has 85 MA's), (Start: 24 @37188 has 13 MA's), (Start: 36 @37260 has 1 MA's), (45, 37323), (53, 37374), (55, 37407), (61, 37446), (66, 37491), (67, 37506), (69, 37515), (71, 37527), (88, 37638), (93, 37662), (101, 37710),

Gene: ViaConlectus\_41 Start: 35637, Stop: 36230, Start Num: 24

Candidate Starts for ViaConlectus\_41:

(Start: 15 @35610 has 1 MA's), (Start: 22 @35631 has 1 MA's), (Start: 23 @35634 has 85 MA's), (Start: 24 @35637 has 13 MA's), (Start: 36 @35709 has 1 MA's), (45, 35772), (53, 35823), (55, 35856), (61, 35895), (66, 35940), (67, 35955), (69, 35964), (71, 35976), (88, 36087), (101, 36159), (111, 36213),

Gene: WelcomeAyanna\_28 Start: 27023, Stop: 27619, Start Num: 23

Candidate Starts for WelcomeAyanna\_28:

(Start: 23 @27023 has 85 MA's), (Start: 36 @27098 has 1 MA's), (Start: 39 @27125 has 1 MA's), (45, 27161), (53, 27212), (55, 27245), (65, 27326), (69, 27353), (88, 27476), (93, 27500), (111, 27602),

Gene: Whiteclaw\_29 Start: 24852, Stop: 25451, Start Num: 23

Candidate Starts for Whiteclaw\_29:

(Start: 23 @24852 has 85 MA's), (45, 24993), (46, 24999), (53, 25044), (55, 25077), (58, 25086), (64, 25152), (65, 25158), (69, 25185), (86, 25296), (88, 25308), (111, 25434),

Gene: WilliamBoone\_59 Start: 39116, Stop: 39814, Start Num: 8

Candidate Starts for WilliamBoone\_59:

(Start: 8 @39116 has 10 MA's), (9, 39122), (14, 39170), (16, 39191), (20, 39206), (25, 39233), (31, 39272), (38, 39314), (48, 39380), (51, 39392), (54, 39425), (56, 39449), (57, 39455), (64, 39521), (67, 39545), (73, 39575), (82, 39638), (89, 39677), (91, 39686), (105, 39758), (109, 39785), (111, 39800),

Gene: Wizard\_36 Start: 32864, Stop: 33460, Start Num: 23

Candidate Starts for Wizard\_36:

(Start: 23 @32864 has 85 MA's), (37, 32942), (45, 33002), (53, 33053), (55, 33086), (61, 33125), (64, 33161), (65, 33167), (88, 33317), (111, 33443),

Gene: Yeet412\_29 Start: 24850, Stop: 25446, Start Num: 23

Candidate Starts for Yeet412\_29:

(Start: 15 @24817 has 1 MA's), (Start: 23 @24850 has 85 MA's), (37, 24928), (45, 24988), (53, 25039), (55, 25072), (61, 25111), (64, 25147), (65, 25153), (88, 25303), (111, 25429),

Gene: Yeezy\_31 Start: 26274, Stop: 26855, Start Num: 21

Candidate Starts for Yeezy\_31:

(Start: 21 @26274 has 8 MA's), (53, 26463), (54, 26481), (69, 26607), (78, 26676), (79, 26682), (94, 26754), (111, 26841),

Gene: Zameen\_31 Start: 27051, Stop: 27647, Start Num: 23

Candidate Starts for Zameen\_31:

(Start: 23 @27051 has 85 MA's), (Start: 39 @27153 has 1 MA's), (45, 27189), (52, 27234), (53, 27240), (55, 27273), (58, 27282), (65, 27354), (67, 27372), (111, 27630),

Gene: Zipp\_40 Start: 37088, Stop: 37684, Start Num: 23

Candidate Starts for Zipp\_40:

(Start: 15 @37064 has 1 MA's), (Start: 22 @37085 has 1 MA's), (Start: 23 @37088 has 85 MA's), (Start: 24 @37091 has 13 MA's), (Start: 36 @37163 has 1 MA's), (41, 37202), (45, 37226), (53, 37277), (55, 37310), (60, 37340), (61, 37349), (64, 37385), (65, 37391), (67, 37409), (69, 37418), (71, 37430), (78, 37487), (92, 37562), (101, 37613), (104, 37622), (111, 37667),

Gene: Zirinka\_29 Start: 27062, Stop: 27658, Start Num: 23

Candidate Starts for Zirinka\_29:

(Start: 15 @27035 has 1 MA's), (Start: 23 @27062 has 85 MA's), (Start: 36 @27137 has 1 MA's), (Start: 39 @27164 has 1 MA's), (45, 27200), (53, 27251), (55, 27284), (65, 27365), (69, 27392), (88, 27515), (111, 27641),