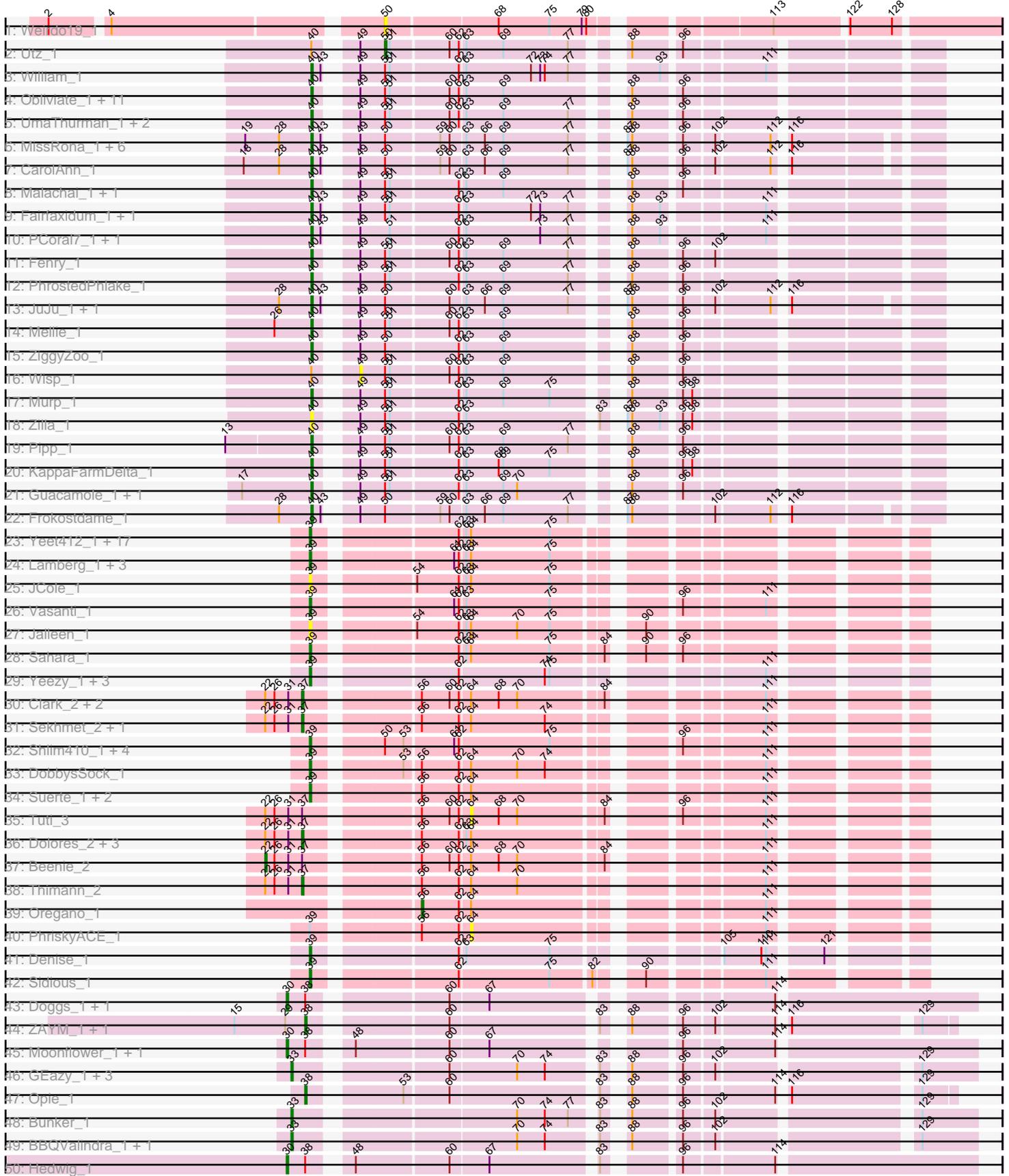


Pham 290859



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 290859 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290859 has 203 members, 26 are drafts.

Phages represented in each track:

- Track 1 : Weirdo19_1
- Track 2 : Utz_1
- Track 3 : William_1
- Track 4 : Obliviate_1, CaptainKirk2_1, Delian_1, Barco_1, Lysidious_1, Archis_1, Jalammah_1, Samba_1, MintFen_1, BlingBling_1, Melba_1, Hitter_1
- Track 5 : UmaThurman_1, Zarbodnamra_1, Wocket_1
- Track 6 : MissRona_1, Walrus_1, Azula_1, Blueberry_1, Petra_1, Gambino_1, Blino_1
- Track 7 : CarolAnn_1
- Track 8 : Malachai_1, Begonia_1
- Track 9 : Fairfaxidum_1, PrincePatrick_1
- Track 10 : PCoral7_1, Toast_1
- Track 11 : Fenry_1
- Track 12 : PhrostedPhlake_1
- Track 13 : JuJu_1, CheeseSpider_1
- Track 14 : Mellie_1
- Track 15 : ZiggyZoo_1
- Track 16 : Wisp_1
- Track 17 : Murp_1
- Track 18 : Zilla_1
- Track 19 : Pipp_1
- Track 20 : KappaFarmDelta_1
- Track 21 : Guacamole_1, JasperJr_1
- Track 22 : Frokostdame_1
- Track 23 : Yeet412_1, LordFarquaad_1, Cynthia_1, Clap_1, GemG_1, Whiteclaw_1, Attis_1, Gizermo_1, SoilAssassin_1, FroggyToad_1, Ebert_1, Savage_1, Matteo_1, Bjanes7_1, Sproutie_1, Haley23_1, Mocha12_1, TuertoX_1
- Track 24 : Lamberg_1, EdnaMode_1, Nettuno_1, Pickett_1
- Track 25 : JCole_1
- Track 26 : Vasanti_1
- Track 27 : Jalleen_1
- Track 28 : Sahara_1
- Track 29 : Yeezy_1, BaxterFox_1, PantheRoc_1, Ohgeesy_1
- Track 30 : Clark_2, MichaelScott_2, Easley_2
- Track 31 : Sekhmet_2, Invectra_2
- Track 32 : Shlim410_1, Adora_1, Hortense_1, Howe_1, Twinkle_1
- Track 33 : DobbysSock_1

- Track 34 : Suerte_1, Powerball_1, Dorito_1
- Track 35 : Tuti_3
- Track 36 : Dolores_2, Samman98_2, Annalisa_2, WinkNick_2
- Track 37 : Beenie_2
- Track 38 : Thimann_2
- Track 39 : Oregano_1
- Track 40 : PhriskyACE_1
- Track 41 : Denise_1
- Track 42 : Sidious_1
- Track 43 : Doggs_1, Coriander_1
- Track 44 : ZAYM_1, TaronosaurusRx_1
- Track 45 : Moonflower_1, Dmitri_1
- Track 46 : GEazy_1, Bowser_1, Eyes_1, HannahD_1
- Track 47 : Opie_1
- Track 48 : Bunker_1
- Track 49 : BBQValindra_1, BackstagePass_1
- Track 50 : Hedwig_1
- Track 51 : MagicMan_1, Schnabeltier_1
- Track 52 : DirtyBoi_1
- Track 53 : RayTheFireFly_1
- Track 54 : Kiko_1
- Track 55 : Sephiroth_12, Syleon_12
- Track 56 : Kudrefre_11
- Track 57 : Octobien14_12
- Track 58 : Neville_11, Trax_11
- Track 59 : Ruthy_1
- Track 60 : DumpsterDude_1
- Track 61 : Zodiariah_1
- Track 62 : MakCheese_1
- Track 63 : Malibo_1
- Track 64 : Sprinklemunch_1
- Track 65 : ArchiDore_1
- Track 66 : Gallop_1
- Track 67 : Spartan_1
- Track 68 : Zucker_2
- Track 69 : Bauer_3
- Track 70 : BlackSpider_1
- Track 71 : Cassini_1
- Track 72 : BellaJr_3
- Track 73 : StevieRay_1, Bhagsy_1, PeanutPie_1, Atcoo_1
- Track 74 : Thespis_1, Brusacoram_1, Megiddo_1, Phalm_1, Glaske_1, KilKor_1, StressBall_1, Willsammy_1, CactusJack_1, Gavriela_1
- Track 75 : Langerak_1, Etoile_1, Malithi_1, Polkaroo_1, FirstPlacePfu_1, Necropolis_1, Fishburne_1, Dynamo_1, GreaseLightnin_1, Camster_1, Zilizebeth_1, Kari_1, Vidya_1
- Track 76 : Mangethe_1, Majeke_1, Arib1_1, Phegasus_1
- Track 77 : Venti_1, Donovan_1, HUHilltop_1, GaloreK_1, Bartholomew_1, Sonah_1, Techage_1, Juniormint_1, Jebeks_1, BronnyJr_1
- Track 78 : Bunnies_1, Ksquared_1
- Track 79 : Shipwreck_1, Pygmy_1, Phineas_1, Bogie_1
- Track 80 : Chubbello_1
- Track 81 : Jung_1
- Track 82 : Tortellini_1

- Track 83 : Xavia_1
- Track 84 : BigNuz_1, Nazo_1
- Track 85 : ThulaThula_1
- Track 86 : Phayonce_1
- Track 87 : Purky_1
- Track 88 : Daegal_1
- Track 89 : Rem711_1
- Track 90 : 32HC_1
- Track 91 : Mbo4_1
- Track 92 : Finkle_1
- Track 93 : Whack_1

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

The start number called the most often in the published annotations is 10, it was called in 48 of the 177 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arib1_1, Atcoo_1, Bartholomew_1, Bhagsy_1, BigNuz_1, Bogie_1, BronnyJr_1, Brusacoram_1, Bunnies_1, CactusJack_1, Camster_1, Chubbello_1, Donovan_1, Dynamo_1, Etoile_1, FirstPlacePfu_1, Fishburne_1, GaloreK_1, Gavriela_1, Glaske_1, GreaseLightnin_1, HUHilltop_1, Jebeks_1, Jung_1, Juniormint_1, Kari_1, KilKor_1, Ksquared_1, Langerak_1, Majeke_1, Malithi_1, Mangethe_1, Megiddo_1, Nazo_1, Necropolis_1, PeanutPie_1, Phalm_1, Phegasus_1, Phineas_1, Polkaroo_1, Pygmy_1, Shipwreck_1, Sonah_1, StevieRay_1, StressBall_1, Techage_1, Thespi_1, ThulaThula_1, Tortellini_1, Venti_1, Vidya_1, Willsammy_1, Xavia_1, Zilizebeth_1,

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

- Phayonce_1, Purky_1,

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

- 32HC_1, Adora_1, Annalisa_2, ArchiDore_1, Archis_1, Attis_1, Azula_1, BBQValindra_1, BackstagePass_1, Barco_1, Bauer_3, BaxterFox_1, Beenie_2, Begonia_1, BellaJr_3, Bjanes7_1, BlackSpider_1, BlingBling_1, Blino_1, Blueberry_1, Bowser_1, Bunker_1, CaptainKirk2_1, CarolAnn_1, Cassini_1, CheeseSpider_1, Clap_1, Clark_2, Coriander_1, Cynthia_1, Daegal_1, Delian_1, Denise_1, DirtyBoi_1, Dmitri_1, DobbysSock_1, Doggs_1, Dolores_2, Dorito_1, DumpsterDude_1, Easley_2, Ebert_1, EdnaMode_1, Eyes_1, Fairfaxidum_1, Fenry_1, Finkle_1, FroggyToad_1, Frokostdame_1, GEazy_1, Gallop_1, Gambino_1, GemG_1, Gizermo_1, Guacamole_1, Haley23_1, HannahD_1, Hedwig_1, Hitter_1, Hortense_1, Howe_1, Invectra_2, JCole_1, Jalammah_1, Jalleen_1, JasperJr_1, JuJu_1, KappaFarmDelta_1, Kiko_1, Kudrefre_11, Lamberg_1, LordFarquaad_1, Lysidious_1, MagicMan_1, MakCheese_1, Malachai_1, Malibo_1, Matteo_1, Mbo4_1, Melba_1, Mellie_1, MichaelScott_2, MintFen_1, MissRona_1, Mocha12_1, Moonflower_1, Murp_1, Nettuno_1, Neville_11, Obliviate_1, Octobien14_12, Ohgeesy_1, Opie_1, Oregano_1, PCoral7_1, PantheRoc_1, Petra_1, PhriskyACE_1, PhrostedPhlake_1, Pickett_1, Pipp_1, Powerball_1, PrincePatrick_1, RayTheFireFly_1, Rem711_1, Ruthy_1, Sahara_1, Samba_1, Samman98_2, Savage_1, Schnabeltier_1, Sekhmet_2, Sephiroth_12, Shlim410_1, Sidious_1, SoilAssassin_1, Spartan_1,

Sprinklemunch_1, Sproutie_1, Suerte_1, Syleon_12, TaronosaurusRx_1, Thimann_2, Toast_1, Trax_11, TuertoX_1, Tuti_3, Twinkle_1, UmaThurman_1, Utz_1, Vasanti_1, Walrus_1, Weirido19_1, Whack_1, Whiteclaw_1, William_1, WinkNick_2, Wisp_1, Wocket_1, Yeet412_1, Yeezy_1, ZAYM_1, Zarbodnamra_1, ZiggyZoo_1, Zilla_1, Zodiariah_1, Zucker_2,

Summary by start number:

Start 6:

- Found in 4 of 203 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Purky_1 (P6),

Start 9:

- Found in 1 of 203 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ruthy_1 (DW),

Start 10:

- Found in 56 of 203 (27.6%) of genes in pham
- Manual Annotations of this start: 48 of 177
- Called 96.4% of time when present
- Phage (with cluster) where this start called: Arib1_1 (P1), Atcoo_1 (P1), Bartholomew_1 (P1), Bhagsy_1 (P1), BigNuz_1 (P4), Bogie_1 (P1), BronnyJr_1 (P1), Brusacoram_1 (P1), Bunnies_1 (P1), CactusJack_1 (P1), Camster_1 (P1), Chubbello_1 (P1), Donovan_1 (P1), Dynamo_1 (P1), Etoile_1 (P1), FirstPlacePfu_1 (P1), Fishburne_1 (P1), GaloreK_1 (P1), Gavriela_1 (P1), Glaske_1 (P1), GreaseLightnin_1 (P1), HUHilltop_1 (P1), Jebeks_1 (P1), Jung_1 (P1), Juniormint_1 (P1), Kari_1 (P1), KilKor_1 (P1), Ksquared_1 (P1), Langerak_1 (P1), Majeke_1 (P1), Malithi_1 (P1), Mangethe_1 (P1), Megiddo_1 (P1), Nazo_1 (P4), Necropolis_1 (P1), PeanutPie_1 (P1), Phalm_1 (P1), Phegasus_1 (P1), Phineas_1 (P1), Polkaroo_1 (P1), Pygmy_1 (P1), Shipwreck_1 (P1), Sonah_1 (P1), StevieRay_1 (P1), StressBall_1 (P1), Techage_1 (P1), Thespis_1 (P1), ThulaThula_1 (P5), Tortellini_1 (P2), Venti_1 (P1), Vidya_1 (P1), Willsammy_1 (P1), Xavia_1 (P3), Zilizebeth_1 (P1),

Start 14:

- Found in 1 of 203 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_1 (singleton),

Start 22:

- Found in 12 of 203 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Beenie_2 (CZ4),

Start 27:

- Found in 4 of 203 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present

- Phage (with cluster) where this start called: Gallop_1 (ES), Spartan_1 (ES),

Start 30:

- Found in 7 of 203 (3.4%) of genes in pham
- Manual Annotations of this start: 6 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coriander_1 (DB), DirtyBoi_1 (DB), Dmitri_1 (DB), Doggs_1 (DB), Hedwig_1 (DB), Moonflower_1 (DB), RayTheFireFly_1 (DB),

Start 33:

- Found in 7 of 203 (3.4%) of genes in pham
- Manual Annotations of this start: 6 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BBQValindra_1 (DB), BackstagePass_1 (DB), Bowser_1 (DB), Bunker_1 (DB), Eyes_1 (DB), GEazy_1 (DB), HannahD_1 (DB),

Start 34:

- Found in 2 of 203 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mbo4_1 (singleton), Whack_1 (singleton),

Start 37:

- Found in 12 of 203 (5.9%) of genes in pham
- Manual Annotations of this start: 10 of 177
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Annalisa_2 (CZ4), Clark_2 (CZ4), Dolores_2 (CZ4), Easley_2 (CZ4), Invectra_2 (CZ4), MichaelScott_2 (CZ4), Samman98_2 (CZ4), Sekhmet_2 (CZ4), Thimann_2 (CZ4), WinkNick_2 (CZ4),

Start 38:

- Found in 13 of 203 (6.4%) of genes in pham
- Manual Annotations of this start: 5 of 177
- Called 46.2% of time when present
- Phage (with cluster) where this start called: Kiko_1 (DB), MagicMan_1 (DB), Opie_1 (DB), Schnabeltier_1 (DB), TaronosaurusRx_1 (DB), ZAYM_1 (DB),

Start 39:

- Found in 42 of 203 (20.7%) of genes in pham
- Manual Annotations of this start: 38 of 177
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Adora_1 (CZ4), Attis_1 (CZ2), BaxterFox_1 (CZ3), Bjanes7_1 (CZ2), Clap_1 (CZ2), Cynthia_1 (CZ2), Denise_1 (CZ5), DobbysSock_1 (CZ4), Dorito_1 (CZ4), Ebert_1 (CZ2), EdnaMode_1 (CZ2), FroggyToad_1 (CZ2), GemG_1 (CZ2), Gizermo_1 (CZ2), Haley23_1 (CZ2), Hortense_1 (CZ4), Howe_1 (CZ4), JCole_1 (CZ2), Jalleen_1 (CZ2), Lamberg_1 (CZ2), LordFarquaad_1 (CZ2), Matteo_1 (CZ2), Mocha12_1 (CZ2), Nettuno_1 (CZ2), Ohgeesy_1 (CZ), PantheRoc_1 (CZ3), Pickett_1 (CZ2), Powerball_1 (CZ4), Sahara_1 (CZ2), Savage_1 (CZ2), Shlim410_1 (CZ4), Sidious_1 (CZ7), SoilAssassin_1 (CZ2), Sproutie_1 (CZ2), Suerte_1 (CZ4), TuertoX_1 (CZ2),

Twinkle_1 (CZ4), Vasanti_1 (CZ2), Whiteclaw_1 (CZ2), Yeet412_1 (CZ2), Yeezy_1 (CZ3),

Start 40:

- Found in 45 of 203 (22.2%) of genes in pham
- Manual Annotations of this start: 41 of 177
- Called 95.6% of time when present
- Phage (with cluster) where this start called: Archis_1 (CV), Azula_1 (CV), Barco_1 (CV), Begonia_1 (CV), BlingBling_1 (CV), Blino_1 (CV), Blueberry_1 (CV), CaptainKirk2_1 (CV), CarolAnn_1 (CV), CheeseSpider_1 (CV), Delian_1 (CV), Fairfaxidum_1 (CV), Fenry_1 (CV), Frokostdame_1 (CV), Gambino_1 (CV), Guacamole_1 (CV), Hitter_1 (CV), Jalammah_1 (CV), JasperJr_1 (CV), JuJu_1 (CV), KappaFarmDelta_1 (CV), Lysidious_1 (CV), Malachai_1 (CV), Melba_1 (CV), Mellie_1 (CV), MintFen_1 (CV), MissRona_1 (CV), Murp_1 (CV), Obliviate_1 (CV), PCora17_1 (CV), Petra_1 (CV), PhrostedPhlake_1 (CV), Pipp_1 (CV), PrincePatrick_1 (CV), Samba_1 (CV), Toast_1 (CV), UmaThurman_1 (CV), Walrus_1 (CV), William_1 (CV), Wocket_1 (CV), Zarbodnamra_1 (CV), ZiggyZoo_1 (CV), Zilla_1 (CV),

Start 42:

- Found in 11 of 203 (5.4%) of genes in pham
- Manual Annotations of this start: 8 of 177
- Called 90.9% of time when present
- Phage (with cluster) where this start called: ArchiDore_1 (DW), DumpsterDude_1 (DW), Kudrefre_11 (DU1), MakCheese_1 (DW), Malibo_1 (DW), Octobien14_12 (DU1), Sephiroth_12 (DU1), Sprinklemunch_1 (DW), Syleon_12 (DU1), Zodiariah_1 (DW),

Start 44:

- Found in 2 of 203 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Neville_11 (DU2), Trax_11 (DU2),

Start 45:

- Found in 5 of 203 (2.5%) of genes in pham
- Manual Annotations of this start: 3 of 177
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bauer_3 (FN), BellaJr_3 (FN), BlackSpider_1 (FN), Cassini_1 (FN), Zucker_2 (FN),

Start 49:

- Found in 46 of 203 (22.7%) of genes in pham
- No Manual Annotations of this start.
- Called 4.3% of time when present
- Phage (with cluster) where this start called: 32HC_1 (Z), Wisp_1 (CV),

Start 50:

- Found in 55 of 203 (27.1%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Utz_1 (CV), Weirido19_1 (AH),

Start 51:

- Found in 89 of 203 (43.8%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 1.1% of time when present
- Phage (with cluster) where this start called: Phayonce_1 (P5),

Start 53:

- Found in 19 of 203 (9.4%) of genes in pham
- Manual Annotations of this start: 2 of 177
- Called 10.5% of time when present
- Phage (with cluster) where this start called: Daegal_1 (Q), Rem711_1 (Z),

Start 56:

- Found in 18 of 203 (8.9%) of genes in pham
- Manual Annotations of this start: 1 of 177
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Oregano_1 (CZ4),

Start 64:

- Found in 48 of 203 (23.6%) of genes in pham
- No Manual Annotations of this start.
- Called 4.2% of time when present
- Phage (with cluster) where this start called: PhriskyACE_1 (CZ4), Tuti_3 (CZ4),

Summary by clusters:

There are 23 clusters represented in this pham: singleton, CZ2, CZ3, DB, CZ7, CZ4, CZ5, DW, FN, DU1, DU2, P2, P3, P1, P6, P4, P5, AH, Q, CZ, Z, CV, ES,

Info for manual annotations of cluster CV:

- Start number 40 was manually annotated 41 times for cluster CV.
- Start number 50 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ:

- Start number 39 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ2:

- Start number 39 was manually annotated 23 times for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 39 was manually annotated 3 times for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 22 was manually annotated 1 time for cluster CZ4.
- Start number 37 was manually annotated 10 times for cluster CZ4.
- Start number 39 was manually annotated 9 times for cluster CZ4.
- Start number 56 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 39 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ7:

- Start number 39 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DB:

- Start number 30 was manually annotated 6 times for cluster DB.
- Start number 33 was manually annotated 6 times for cluster DB.
- Start number 38 was manually annotated 5 times for cluster DB.

Info for manual annotations of cluster DU1:

- Start number 42 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 44 was manually annotated 2 times for cluster DU2.

Info for manual annotations of cluster DW:

- Start number 9 was manually annotated 1 time for cluster DW.
- Start number 42 was manually annotated 4 times for cluster DW.

Info for manual annotations of cluster FN:

- Start number 45 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster P1:

- Start number 10 was manually annotated 43 times for cluster P1.

Info for manual annotations of cluster P2:

- Start number 10 was manually annotated 1 time for cluster P2.

Info for manual annotations of cluster P3:

- Start number 10 was manually annotated 1 time for cluster P3.

Info for manual annotations of cluster P4:

- Start number 10 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:

- Start number 10 was manually annotated 1 time for cluster P5.
- Start number 51 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 6 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:

- Start number 53 was manually annotated 1 time for cluster Q.

Info for manual annotations of cluster Z:

- Start number 53 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_1 Start: 209, Stop: 550, Start Num: 49

Candidate Starts for 32HC_1:

(3, 38), (49, 209), (Start: 53 @236 has 2 MA's), (57, 251), (71, 311), (74, 323), (88, 356), (96, 383), (115, 446), (118, 461),

Gene: Adora_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Adora_1:

(Start: 39 @14 has 38 MA's), (Start: 50 @50 has 1 MA's), (Start: 53 @62 has 2 MA's), (61, 92), (62, 95), (75, 152), (96, 215), (111, 263),

Gene: Annalisa_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Annalisa_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (63, 600), (64, 603), (111, 765),

Gene: ArchiDore_1 Start: 127, Stop: 453, Start Num: 42

Candidate Starts for ArchiDore_1:

(Start: 42 @127 has 8 MA's), (Start: 50 @166 has 1 MA's), (62, 211), (65, 220), (69, 238), (72, 256), (81, 295), (102, 340), (116, 379), (124, 412),

Gene: Archis_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Archis_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Arib1_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Arib1_1:

(Start: 10 @55 has 48 MA's), (47, 124), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Atcoo_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Atcoo_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (93, 286), (101, 310), (110, 340),

Gene: Attis_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Attis_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Azula_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Azula_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: BBQValindra_1 Start: 176, Stop: 550, Start Num: 33

Candidate Starts for BBQValindra_1:

(Start: 33 @176 has 6 MA's), (70, 302), (74, 320), (83, 347), (88, 356), (96, 383), (102, 401), (129, 515),

Gene: BackstagePass_1 Start: 149, Stop: 523, Start Num: 33

Candidate Starts for BackstagePass_1:

(Start: 33 @149 has 6 MA's), (70, 275), (74, 293), (83, 320), (88, 329), (96, 356), (102, 374), (129, 488),

Gene: Barco_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Barco_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Bartholomew_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Bartholomew_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Bauer_3 Start: 1082, Stop: 1468, Start Num: 45

Candidate Starts for Bauer_3:

(23, 1049), (Start: 45 @1082 has 3 MA's), (52, 1115), (55, 1133), (64, 1166), (68, 1184), (70, 1196), (78, 1232), (81, 1244), (126, 1403), (131, 1454),

Gene: BaxterFox_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for BaxterFox_1:

(Start: 39 @14 has 38 MA's), (62, 95), (74, 149), (75, 152), (111, 263),

Gene: Beenie_2 Start: 486, Stop: 848, Start Num: 22

Candidate Starts for Beenie_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (60, 591), (62, 597), (64, 603), (68, 621), (70, 633), (84, 684), (111, 765),

Gene: Begonia_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Begonia_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: BellaJr_3 Start: 1081, Stop: 1479, Start Num: 45

Candidate Starts for BellaJr_3:

(23, 1048), (Start: 45 @1081 has 3 MA's), (52, 1114), (55, 1132), (64, 1165), (68, 1183), (70, 1195), (78, 1231), (81, 1243), (98, 1297), (104, 1315), (131, 1465),

Gene: Bhagsy_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Bhagsy_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (93, 286), (101, 310), (110, 340),

Gene: BigNuz_1 Start: 43, Stop: 423, Start Num: 10

Candidate Starts for BigNuz_1:

(Start: 6 @16 has 1 MA's), (Start: 10 @43 has 48 MA's), (Start: 51 @130 has 1 MA's), (68, 196), (84, 253), (93, 277), (96, 286), (101, 301), (110, 331),

Gene: Bjaner7_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Bjaner7_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: BlackSpider_1 Start: 71, Stop: 478, Start Num: 45

Candidate Starts for BlackSpider_1:

(32, 44), (Start: 45 @71 has 3 MA's), (52, 104), (70, 185), (81, 233), (85, 245), (98, 296), (131, 464),

Gene: BlingBling_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for BlingBling_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Blino_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Blino_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Blueberry_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Blueberry_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Bogie_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Bogie_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (101, 310), (110, 340),

Gene: Bowser_1 Start: 176, Stop: 550, Start Num: 33

Candidate Starts for Bowser_1:

(Start: 33 @176 has 6 MA's), (60, 260), (70, 302), (74, 320), (83, 347), (88, 356), (96, 383), (102, 401), (129, 515),

Gene: BronnyJr_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for BronnyJr_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Brusacoram_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Brusacoram_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Bunker_1 Start: 176, Stop: 550, Start Num: 33

Candidate Starts for Bunker_1:

(Start: 33 @176 has 6 MA's), (70, 302), (74, 320), (77, 335), (83, 347), (88, 356), (96, 383), (102, 401), (129, 515),

Gene: Bunnies_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Bunnies_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (93, 298), (101, 322), (110, 352),

Gene: CactusJack_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for CactusJack_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Camster_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Camster_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: CaptainKirk2_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for CaptainKirk2_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: CarolAnn_1 Start: 56, Stop: 391, Start Num: 40

Candidate Starts for CarolAnn_1:

(18, 14), (28, 35), (Start: 40 @56 has 41 MA's), (43, 62), (49, 74), (Start: 50 @89 has 1 MA's), (59, 122), (60, 128), (63, 137), (66, 149), (69, 161), (77, 203), (87, 221), (88, 224), (96, 251), (102, 269), (112, 302), (116, 308),

Gene: Cassini_1 Start: 60, Stop: 443, Start Num: 45

Candidate Starts for Cassini_1:

(41, 48), (Start: 45 @60 has 3 MA's), (52, 93), (55, 111), (70, 174), (72, 183), (81, 222), (86, 234), (95, 267), (98, 276), (104, 294), (126, 378),

Gene: CheeseSpider_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for CheeseSpider_1:

(28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Chubbello_1 Start: 54, Stop: 443, Start Num: 10

Candidate Starts for Chubbello_1:

(Start: 10 @54 has 48 MA's), (Start: 51 @150 has 1 MA's), (68, 216), (84, 273), (89, 285), (101, 321), (110, 351),

Gene: Clap_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Clap_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Clark_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Clark_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (60, 591), (62, 597), (64, 603), (68, 621), (70, 633), (84, 684), (111, 765),

Gene: Coriander_1 Start: 228, Stop: 614, Start Num: 30

Candidate Starts for Coriander_1:

(Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (60, 315), (67, 339), (114, 492),

Gene: Cynthia_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Cynthia_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Daegal_1 Start: 257, Stop: 571, Start Num: 53

Candidate Starts for Daegal_1:

(1, 14), (4, 71), (5, 92), (Start: 53 @257 has 2 MA's), (61, 287), (63, 293), (64, 296), (68, 314), (74, 344), (75, 347), (97, 392), (106, 416), (108, 425), (120, 470), (122, 485), (130, 536), (132, 563),

Gene: Delian_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Delian_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Denise_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Denise_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (75, 152), (105, 236), (110, 260), (111, 263), (121, 293),

Gene: DirtyBoi_1 Start: 228, Stop: 614, Start Num: 30

Candidate Starts for DirtyBoi_1:

(7, 141), (Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (60, 315), (67, 339), (83, 402), (96, 438), (114, 492),

Gene: Dmitri_1 Start: 228, Stop: 614, Start Num: 30

Candidate Starts for Dmitri_1:

(Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (48, 258), (60, 315), (67, 339), (96, 438), (114, 492),

Gene: DobbysSock_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for DobbysSock_1:

(Start: 39 @14 has 38 MA's), (Start: 53 @62 has 2 MA's), (Start: 56 @71 has 1 MA's), (62, 95), (64, 101), (70, 131), (74, 149), (111, 263),

Gene: Doggs_1 Start: 228, Stop: 614, Start Num: 30

Candidate Starts for Doggs_1:

(Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (60, 315), (67, 339), (114, 492),

Gene: Dolores_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Dolores_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (63, 600), (64, 603), (111, 765),

Gene: Donovan_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Donovan_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Dorito_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Dorito_1:

(Start: 39 @14 has 38 MA's), (Start: 56 @71 has 1 MA's), (62, 95), (64, 101), (111, 263),

Gene: DumpsterDude_1 Start: 127, Stop: 453, Start Num: 42

Candidate Starts for DumpsterDude_1:

(20, 82), (Start: 42 @127 has 8 MA's), (Start: 50 @166 has 1 MA's), (62, 211), (65, 220), (69, 238), (72, 256), (81, 295), (102, 340), (116, 379), (124, 412),

Gene: Dynamo_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Dynamo_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Easley_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Easley_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (60, 591), (62, 597), (64, 603), (68, 621), (70, 633), (84, 684), (111, 765),

Gene: Ebert_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Ebert_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: EdnaMode_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for EdnaMode_1:

(Start: 39 @14 has 38 MA's), (61, 92), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Etoile_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Etoile_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Eyes_1 Start: 176, Stop: 550, Start Num: 33

Candidate Starts for Eyes_1:

(Start: 33 @176 has 6 MA's), (60, 260), (70, 302), (74, 320), (83, 347), (88, 356), (96, 383), (102, 401), (129, 515),

Gene: Fairfaxidum_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Fairfaxidum_1:

(Start: 40 @56 has 41 MA's), (43, 62), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (72, 179), (73, 185), (77, 203), (88, 224), (93, 242), (111, 299),

Gene: Fenry_1 Start: 57, Stop: 398, Start Num: 40

Candidate Starts for Fenry_1:

(Start: 40 @57 has 41 MA's), (49, 75), (Start: 50 @90 has 1 MA's), (Start: 51 @93 has 1 MA's), (60, 129), (62, 135), (63, 138), (69, 162), (77, 204), (88, 225), (96, 252), (102, 270),

Gene: Finkle_1 Start: 10, Stop: 411, Start Num: 14

Candidate Starts for Finkle_1:

(12, 1), (Start: 14 @10 has 1 MA's), (46, 82), (102, 298),

Gene: FirstPlacePfu_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for FirstPlacePfu_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Fishburne_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Fishburne_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: FroggyToad_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for FroggyToad_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Frokostdame_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Frokostdame_1:

(28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (102, 270), (112, 303), (116, 309),

Gene: GEazy_1 Start: 176, Stop: 550, Start Num: 33

Candidate Starts for GEazy_1:

(Start: 33 @176 has 6 MA's), (60, 260), (70, 302), (74, 320), (83, 347), (88, 356), (96, 383), (102, 401), (129, 515),

Gene: Gallop_1 Start: 64, Stop: 435, Start Num: 27

Candidate Starts for Gallop_1:

(27, 64), (Start: 53 @142 has 2 MA's), (64, 181), (95, 295), (96, 298), (101, 313), (119, 367),

Gene: GaloreK_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for GaloreK_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Gambino_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Gambino_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Gavriela_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Gavriela_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: GemG_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for GemG_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Gizermo_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Gizermo_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Glaske_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Glaske_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: GreaseLightnin_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for GreaseLightnin_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Guacamole_1 Start: 57, Stop: 398, Start Num: 40

Candidate Starts for Guacamole_1:

(17, 12), (Start: 40 @57 has 41 MA's), (49, 75), (Start: 50 @90 has 1 MA's), (Start: 51 @93 has 1 MA's), (62, 135), (63, 138), (69, 162), (70, 171), (88, 225), (96, 252),

Gene: HUHilltop_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for HUHilltop_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Haley23_1 Start: 14, Stop: 346, Start Num: 39
Candidate Starts for Haley23_1:
(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: HannahD_1 Start: 176, Stop: 550, Start Num: 33
Candidate Starts for HannahD_1:
(Start: 33 @176 has 6 MA's), (60, 260), (70, 302), (74, 320), (83, 347), (88, 356), (96, 383), (102, 401),
(129, 515),

Gene: Hedwig_1 Start: 228, Stop: 614, Start Num: 30
Candidate Starts for Hedwig_1:
(Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (48, 258), (60, 315), (67, 339), (83, 402),
(96, 438), (114, 492),

Gene: Hitter_1 Start: 56, Stop: 397, Start Num: 40
Candidate Starts for Hitter_1:
(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60,
128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Hortense_1 Start: 14, Stop: 346, Start Num: 39
Candidate Starts for Hortense_1:
(Start: 39 @14 has 38 MA's), (Start: 50 @50 has 1 MA's), (Start: 53 @62 has 2 MA's), (61, 92), (62,
95), (75, 152), (96, 215), (111, 263),

Gene: Howe_1 Start: 14, Stop: 346, Start Num: 39
Candidate Starts for Howe_1:
(Start: 39 @14 has 38 MA's), (Start: 50 @50 has 1 MA's), (Start: 53 @62 has 2 MA's), (61, 92), (62,
95), (75, 152), (96, 215), (111, 263),

Gene: Invectra_2 Start: 510, Stop: 848, Start Num: 37
Candidate Starts for Invectra_2:
(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1
MA's), (62, 597), (64, 603), (74, 651), (111, 765),

Gene: JCole_1 Start: 14, Stop: 346, Start Num: 39
Candidate Starts for JCole_1:
(Start: 39 @14 has 38 MA's), (54, 68), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Jalammah_1 Start: 56, Stop: 397, Start Num: 40
Candidate Starts for Jalammah_1:
(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60,
128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Jalleen_1 Start: 14, Stop: 346, Start Num: 39
Candidate Starts for Jalleen_1:
(Start: 39 @14 has 38 MA's), (54, 68), (62, 95), (63, 98), (64, 101), (70, 131), (75, 152), (90, 197),

Gene: JasperJr_1 Start: 57, Stop: 398, Start Num: 40
Candidate Starts for JasperJr_1:
(17, 12), (Start: 40 @57 has 41 MA's), (49, 75), (Start: 50 @90 has 1 MA's), (Start: 51 @93 has 1
MA's), (62, 135), (63, 138), (69, 162), (70, 171), (88, 225), (96, 252),

Gene: Jebeks_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Jebeks_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: JuJu_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for JuJu_1:

(28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Jung_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Jung_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (101, 309), (110, 339),

Gene: Juniormint_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Juniormint_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: KappaFarmDelta_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for KappaFarmDelta_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (68, 158), (69, 161), (75, 191), (88, 224), (96, 251), (98, 257),

Gene: Kari_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Kari_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Kiko_1 Start: 64, Stop: 435, Start Num: 38

Candidate Starts for Kiko_1:

(Start: 38 @64 has 5 MA's), (70, 181), (74, 199), (83, 226), (96, 259), (114, 313), (127, 379),

Gene: KilKor_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for KilKor_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Ksquared_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Ksquared_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (93, 298), (101, 322), (110, 352),

Gene: Kudfre_11 Start: 4593, Stop: 4943, Start Num: 42

Candidate Starts for Kudfre_11:

(Start: 42 @4593 has 8 MA's), (70, 4716), (92, 4797), (125, 4926),

Gene: Lamberg_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Lamberg_1:

(Start: 39 @14 has 38 MA's), (61, 92), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Langerak_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Langerak_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: LordFarquaad_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for LordFarquaad_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Lysidious_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Lysidious_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: MagicMan_1 Start: 166, Stop: 516, Start Num: 38

Candidate Starts for MagicMan_1:

(15, 121), (29, 154), (Start: 38 @166 has 5 MA's), (Start: 53 @214 has 2 MA's), (60, 241), (83, 328), (88, 337), (96, 364), (102, 382), (114, 418), (116, 421), (129, 496),

Gene: Majeke_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Majeke_1:

(Start: 10 @55 has 48 MA's), (47, 124), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: MakCheese_1 Start: 127, Stop: 453, Start Num: 42

Candidate Starts for MakCheese_1:

(Start: 42 @127 has 8 MA's), (Start: 50 @166 has 1 MA's), (Start: 53 @178 has 2 MA's), (59, 199), (62, 211), (63, 214), (65, 220), (69, 238), (72, 256), (75, 268), (78, 283), (81, 295), (93, 313), (98, 328), (102, 340), (107, 349), (116, 379), (123, 409), (124, 412),

Gene: Malachai_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Malachai_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Malibo_1 Start: 127, Stop: 453, Start Num: 42

Candidate Starts for Malibo_1:

(24, 97), (Start: 42 @127 has 8 MA's), (Start: 50 @166 has 1 MA's), (Start: 53 @178 has 2 MA's), (59, 199), (69, 238), (72, 256),

Gene: Malithi_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Malithi_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Mangethe_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Mangethe_1:

(Start: 10 @55 has 48 MA's), (47, 124), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Matteo_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Matteo_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Mbo4_1 Start: 117, Stop: 464, Start Num: 34

Candidate Starts for Mbo4_1:

(21, 99), (31, 111), (Start: 34 @117 has 1 MA's), (83, 300), (109, 369), (110, 378),

Gene: Megiddo_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Megiddo_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Melba_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Melba_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Mellie_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Mellie_1:

(26, 32), (Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: MichaelScott_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for MichaelScott_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (60, 591), (62, 597), (64, 603), (68, 621), (70, 633), (84, 684), (111, 765),

Gene: MintFen_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for MintFen_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: MissRona_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for MissRona_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Mocha12_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Mocha12_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Moonflower_1 Start: 227, Stop: 613, Start Num: 30

Candidate Starts for Moonflower_1:

(Start: 30 @227 has 6 MA's), (Start: 38 @239 has 5 MA's), (48, 257), (60, 314), (67, 338), (96, 437), (114, 491),

Gene: Murp_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Murp_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (69, 161), (75, 191), (88, 224), (96, 251), (98, 257),

Gene: Nazo_1 Start: 43, Stop: 423, Start Num: 10

Candidate Starts for Nazo_1:

(Start: 6 @16 has 1 MA's), (Start: 10 @43 has 48 MA's), (Start: 51 @130 has 1 MA's), (68, 196), (84, 253), (93, 277), (96, 286), (101, 301), (110, 331),

Gene: Necropolis_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Necropolis_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Nettuno_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Nettuno_1:

(Start: 39 @14 has 38 MA's), (61, 92), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Neville_11 Start: 4473, Stop: 4811, Start Num: 44

Candidate Starts for Neville_11:

(Start: 44 @4473 has 2 MA's), (58, 4542), (75, 4617), (76, 4623), (91, 4674), (92, 4677), (99, 4701), (100, 4707), (103, 4716),

Gene: Obliviate_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Obliviate_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Octobien14_12 Start: 5664, Stop: 6014, Start Num: 42

Candidate Starts for Octobien14_12:

(41, 5661), (Start: 42 @5664 has 8 MA's), (70, 5787), (92, 5868), (125, 5997),

Gene: Ohgeesy_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Ohgeesy_1:

(Start: 39 @14 has 38 MA's), (62, 95), (74, 149), (75, 152), (111, 263),

Gene: Opie_1 Start: 166, Stop: 516, Start Num: 38

Candidate Starts for Opie_1:

(Start: 38 @166 has 5 MA's), (Start: 53 @214 has 2 MA's), (60, 241), (83, 328), (88, 337), (96, 364), (114, 418), (116, 421), (129, 496),

Gene: Oregano_1 Start: 101, Stop: 376, Start Num: 56

Candidate Starts for Oregano_1:

(Start: 56 @101 has 1 MA's), (62, 125), (64, 131), (111, 293),

Gene: PCoral7_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for PCoral7_1:

(Start: 40 @56 has 41 MA's), (43, 62), (49, 74), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (73, 185), (77, 203), (88, 224), (93, 242), (111, 299),

Gene: PantheRoc_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for PantheRoc_1:

(Start: 39 @14 has 38 MA's), (62, 95), (74, 149), (75, 152), (111, 263),

Gene: PeanutPie_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for PeanutPie_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (93, 286), (101, 310), (110, 340),

Gene: Petra_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Petra_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Phalm_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Phalm_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Phayonce_1 Start: 139, Stop: 432, Start Num: 51

Candidate Starts for Phayonce_1:

(Start: 10 @55 has 48 MA's), (27, 91), (Start: 51 @139 has 1 MA's), (62, 181), (68, 205), (74, 235), (84, 262), (96, 295), (101, 310), (102, 313), (110, 340),

Gene: Phegasus_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Phegasus_1:

(Start: 10 @55 has 48 MA's), (47, 124), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Phineas_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Phineas_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (101, 310), (110, 340),

Gene: PhriskyACE_1 Start: 101, Stop: 346, Start Num: 64

Candidate Starts for PhriskyACE_1:

(Start: 39 @14 has 38 MA's), (Start: 56 @71 has 1 MA's), (62, 95), (64, 101), (111, 263),

Gene: PhrostedPhlake_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for PhrostedPhlake_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (69, 161), (77, 203), (88, 224), (96, 251),

Gene: Pickett_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Pickett_1:

(Start: 39 @14 has 38 MA's), (61, 92), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Pipp_1 Start: 55, Stop: 396, Start Num: 40

Candidate Starts for Pipp_1:

(13, 1), (Start: 40 @55 has 41 MA's), (49, 73), (Start: 50 @88 has 1 MA's), (Start: 51 @91 has 1 MA's), (60, 127), (62, 133), (63, 136), (69, 160), (77, 202), (88, 223), (96, 250),

Gene: Polkaroo_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Polkaroo_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Powerball_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Powerball_1:

(Start: 39 @14 has 38 MA's), (Start: 56 @71 has 1 MA's), (62, 95), (64, 101), (111, 263),

Gene: PrincePatrick_1 Start: 57, Stop: 398, Start Num: 40

Candidate Starts for PrincePatrick_1:

(Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (Start: 51 @93 has 1 MA's), (62, 135), (63, 138), (72, 180), (73, 186), (77, 204), (88, 225), (93, 243), (111, 300),

Gene: Purky_1 Start: 16, Stop: 432, Start Num: 6

Candidate Starts for Purky_1:

(Start: 6 @16 has 1 MA's), (8, 40), (Start: 10 @55 has 48 MA's), (Start: 51 @139 has 1 MA's), (62, 181), (68, 205), (84, 262), (93, 286), (96, 295), (101, 310), (110, 340),

Gene: Pygmy_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Pygmy_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (101, 310), (110, 340),

Gene: RayTheFireFly_1 Start: 228, Stop: 614, Start Num: 30

Candidate Starts for RayTheFireFly_1:

(Start: 30 @228 has 6 MA's), (Start: 38 @240 has 5 MA's), (60, 315), (67, 339), (96, 438), (114, 492),

Gene: Rem711_1 Start: 226, Stop: 540, Start Num: 53

Candidate Starts for Rem711_1:

(3, 37), (Start: 53 @226 has 2 MA's), (57, 241), (71, 301), (74, 313), (88, 346), (96, 373), (115, 436), (118, 451),

Gene: Ruthy_1 Start: 43, Stop: 453, Start Num: 9

Candidate Starts for Ruthy_1:

(Start: 9 @43 has 1 MA's), (20, 82), (Start: 42 @127 has 8 MA's), (Start: 50 @166 has 1 MA's), (Start: 53 @178 has 2 MA's), (62, 211), (65, 220), (69, 238), (72, 256), (75, 268), (81, 295), (94, 316), (102, 340), (116, 379),

Gene: Sahara_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Sahara_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152), (84, 182), (90, 197), (96, 215),

Gene: Samba_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Samba_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Samman98_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Samman98_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (63, 600), (64, 603), (111, 765),

Gene: Savage_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Savage_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Schnabeltier_1 Start: 167, Stop: 517, Start Num: 38

Candidate Starts for Schnabeltier_1:

(15, 122), (29, 155), (Start: 38 @167 has 5 MA's), (Start: 53 @215 has 2 MA's), (60, 242), (83, 329), (88, 338), (96, 365), (102, 383), (114, 419), (116, 422), (129, 497),

Gene: Sekhmet_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Sekhmet_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (64, 603), (74, 651), (111, 765),

Gene: Sephiroth_12 Start: 4764, Stop: 5114, Start Num: 42

Candidate Starts for Sephiroth_12:

(11, 4695), (25, 4734), (Start: 42 @4764 has 8 MA's), (70, 4887), (92, 4968), (125, 5097),

Gene: Shipwreck_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Shipwreck_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (101, 310), (110, 340),

Gene: Shlim410_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Shlim410_1:

(Start: 39 @14 has 38 MA's), (Start: 50 @50 has 1 MA's), (Start: 53 @62 has 2 MA's), (61, 92), (62, 95), (75, 152), (96, 215), (111, 263),

Gene: Sidious_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Sidious_1:

(Start: 39 @14 has 38 MA's), (62, 95), (75, 152), (82, 176), (90, 197), (111, 263),

Gene: SoilAssassin_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for SoilAssassin_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Sonah_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Sonah_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Spartan_1 Start: 64, Stop: 435, Start Num: 27

Candidate Starts for Spartan_1:

(27, 64), (Start: 53 @142 has 2 MA's), (60, 169), (74, 229), (95, 295), (96, 298), (101, 313), (119, 367),

Gene: Sprinklemunch_1 Start: 125, Stop: 451, Start Num: 42

Candidate Starts for Sprinklemunch_1:

(16, 74), (17, 77), (35, 113), (Start: 42 @125 has 8 MA's), (70, 245), (73, 260), (78, 281), (83, 299), (98, 326), (102, 338), (111, 368), (117, 380),

Gene: Sproutie_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Sproutie_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: StevieRay_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for StevieRay_1:

(Start: 10 @43 has 48 MA's), (Start: 51 @139 has 1 MA's), (68, 205), (84, 262), (89, 274), (93, 286), (101, 310), (110, 340),

Gene: StressBall_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for StressBall_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Suerte_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Suerte_1:

(Start: 39 @14 has 38 MA's), (Start: 56 @71 has 1 MA's), (62, 95), (64, 101), (111, 263),

Gene: Syleon_12 Start: 4686, Stop: 5036, Start Num: 42

Candidate Starts for Syleon_12:

(11, 4617), (25, 4656), (Start: 42 @4686 has 8 MA's), (70, 4809), (92, 4890), (125, 5019),

Gene: TaronosaurusRx_1 Start: 167, Stop: 517, Start Num: 38

Candidate Starts for TaronosaurusRx_1:

(15, 122), (29, 155), (Start: 38 @167 has 5 MA's), (60, 242), (83, 329), (88, 338), (96, 365), (102, 383), (114, 419), (116, 422), (129, 497),

Gene: Techage_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Techage_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Thespis_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Thespis_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: Thimann_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for Thimann_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (64, 603), (70, 633), (111, 765),

Gene: ThulaThula_1 Start: 55, Stop: 432, Start Num: 10

Candidate Starts for ThulaThula_1:

(Start: 10 @55 has 48 MA's), (27, 91), (Start: 51 @139 has 1 MA's), (60, 175), (62, 181), (68, 205), (74, 235), (84, 262), (101, 310), (102, 313), (110, 340),

Gene: Toast_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Toast_1:

(Start: 40 @56 has 41 MA's), (43, 62), (49, 74), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (73, 185), (77, 203), (88, 224), (93, 242), (111, 299),

Gene: Tortellini_1 Start: 43, Stop: 432, Start Num: 10

Candidate Starts for Tortellini_1:

(Start: 10 @43 has 48 MA's), (36, 94), (Start: 51 @139 has 1 MA's), (60, 175), (68, 205), (96, 295), (101, 310), (110, 340),

Gene: Trax_11 Start: 4473, Stop: 4811, Start Num: 44

Candidate Starts for Trax_11:

(Start: 44 @4473 has 2 MA's), (58, 4542), (75, 4617), (76, 4623), (91, 4674), (92, 4677), (99, 4701), (100, 4707), (103, 4716),

Gene: TuertoX_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for TuertoX_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Tuti_3 Start: 603, Stop: 848, Start Num: 64

Candidate Starts for Tuti_3:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (60, 591), (62, 597), (64, 603), (68, 621), (70, 633), (84, 684), (96, 717), (111, 765),

Gene: Twinkle_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Twinkle_1:

(Start: 39 @14 has 38 MA's), (Start: 50 @50 has 1 MA's), (Start: 53 @62 has 2 MA's), (61, 92), (62, 95), (75, 152), (96, 215), (111, 263),

Gene: UmaThurman_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for UmaThurman_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (77, 203), (88, 224), (96, 251),

Gene: Utz_1 Start: 89, Stop: 397, Start Num: 50

Candidate Starts for Utz_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (77, 203), (88, 224), (96, 251),

Gene: Vasanti_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Vasanti_1:

(Start: 39 @14 has 38 MA's), (61, 92), (62, 95), (63, 98), (75, 152), (96, 215), (111, 263),

Gene: Venti_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Venti_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (62, 193), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Vidya_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Vidya_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Walrus_1 Start: 57, Stop: 392, Start Num: 40

Candidate Starts for Walrus_1:

(19, 15), (28, 36), (Start: 40 @57 has 41 MA's), (43, 63), (49, 75), (Start: 50 @90 has 1 MA's), (59, 123), (60, 129), (63, 138), (66, 150), (69, 162), (77, 204), (87, 222), (88, 225), (96, 252), (102, 270), (112, 303), (116, 309),

Gene: Weirdo19_1 Start: 209, Stop: 565, Start Num: 50

Candidate Starts for Weirdo19_1:

(2, 14), (4, 47), (Start: 50 @209 has 1 MA's), (68, 278), (75, 311), (79, 332), (80, 335), (113, 431), (122, 473), (128, 500),

Gene: Whack_1 Start: 53, Stop: 403, Start Num: 34

Candidate Starts for Whack_1:

(Start: 34 @53 has 1 MA's), (Start: 53 @107 has 2 MA's), (74, 194), (80, 221), (96, 263), (110, 308), (116, 320),

Gene: Whiteclaw_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Whiteclaw_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: William_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for William_1:

(Start: 40 @56 has 41 MA's), (43, 62), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (72, 179), (73, 185), (74, 188), (77, 203), (93, 242), (111, 299),

Gene: Willsammy_1 Start: 42, Stop: 431, Start Num: 10

Candidate Starts for Willsammy_1:

(Start: 10 @42 has 48 MA's), (Start: 51 @138 has 1 MA's), (68, 204), (84, 261), (89, 273), (93, 285), (101, 309), (110, 339),

Gene: WinkNick_2 Start: 510, Stop: 848, Start Num: 37

Candidate Starts for WinkNick_2:

(Start: 22 @486 has 1 MA's), (26, 492), (31, 501), (Start: 37 @510 has 10 MA's), (Start: 56 @573 has 1 MA's), (62, 597), (63, 600), (64, 603), (111, 765),

Gene: Wisp_1 Start: 74, Stop: 397, Start Num: 49

Candidate Starts for Wisp_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Wocket_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Wocket_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (77, 203), (88, 224), (96, 251),

Gene: Xavia_1 Start: 55, Stop: 435, Start Num: 10

Candidate Starts for Xavia_1:

(Start: 6 @16 has 1 MA's), (Start: 10 @55 has 48 MA's), (Start: 51 @142 has 1 MA's), (62, 184), (63, 187), (68, 208), (84, 265), (89, 277), (93, 289), (96, 298), (101, 313), (110, 343),

Gene: Yeet412_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Yeet412_1:

(Start: 39 @14 has 38 MA's), (62, 95), (63, 98), (64, 101), (75, 152),

Gene: Yeezy_1 Start: 14, Stop: 346, Start Num: 39

Candidate Starts for Yeezy_1:

(Start: 39 @14 has 38 MA's), (62, 95), (74, 149), (75, 152), (111, 263),

Gene: ZAYM_1 Start: 166, Stop: 516, Start Num: 38

Candidate Starts for ZAYM_1:

(15, 121), (29, 154), (Start: 38 @166 has 5 MA's), (60, 241), (83, 328), (88, 337), (96, 364), (102, 382), (114, 418), (116, 421), (129, 496),

Gene: Zarbodnamra_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Zarbodnamra_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (60, 128), (62, 134), (63, 137), (69, 161), (77, 203), (88, 224), (96, 251),

Gene: ZiggyZoo_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for ZiggyZoo_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (62, 134), (63, 137), (69, 161), (88, 224), (96, 251),

Gene: Zilizebeth_1 Start: 55, Stop: 444, Start Num: 10

Candidate Starts for Zilizebeth_1:

(Start: 10 @55 has 48 MA's), (Start: 51 @151 has 1 MA's), (68, 217), (84, 274), (89, 286), (101, 322), (110, 352),

Gene: Zilla_1 Start: 56, Stop: 397, Start Num: 40

Candidate Starts for Zilla_1:

(Start: 40 @56 has 41 MA's), (49, 74), (Start: 50 @89 has 1 MA's), (Start: 51 @92 has 1 MA's), (62, 134), (63, 137), (83, 215), (87, 221), (88, 224), (93, 242), (96, 251), (98, 257),

Gene: Zodiariah_1 Start: 125, Stop: 451, Start Num: 42

Candidate Starts for Zodiariah_1:

(Start: 42 @125 has 8 MA's), (Start: 50 @164 has 1 MA's), (Start: 53 @176 has 2 MA's), (59, 197), (62, 209), (63, 212), (65, 218), (69, 236), (72, 254), (75, 266), (78, 281), (81, 293), (93, 311), (102, 338), (116, 377), (123, 407), (124, 410),

Gene: Zucker_2 Start: 385, Stop: 780, Start Num: 45

Candidate Starts for Zucker_2:

(23, 352), (Start: 45 @385 has 3 MA's), (55, 436), (64, 469), (68, 487), (70, 499), (81, 547), (126, 715), (131, 766),