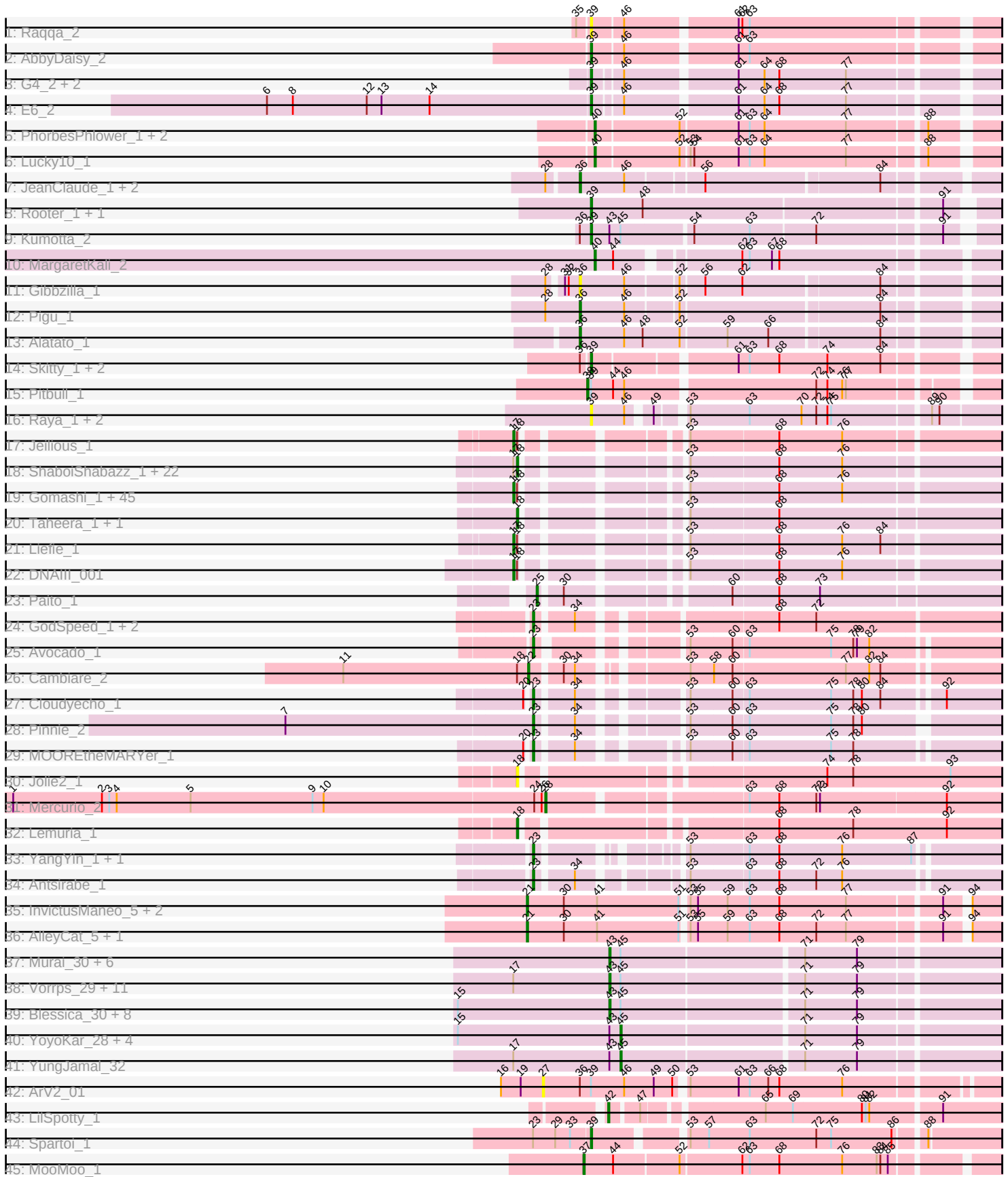




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 330554 Report

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

Pham number 330554 has 159 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Raqqa_2
- Track 2 : AbbyDaisy_2
- Track 3 : G4_2, B22_2, Doucette_2
- Track 4 : E6_2
- Track 5 : PhorbesPhlower_1, InLimbo_1, Morkie_1
- Track 6 : Lucky10_1
- Track 7 : JeanClaude_1, Sarge_1, BrayBeast_1
- Track 8 : Rooter_1, Shoya_1
- Track 9 : Kumotta_2
- Track 10 : MargaretKali_2
- Track 11 : Gibbzilla_1
- Track 12 : Pigu_1
- Track 13 : Alatao_1
- Track 14 : Skitty_1, Merpity_1, MrSmee_1
- Track 15 : Pitbull_1
- Track 16 : Raya_1, Neroxid_1, Skyerus_1
- Track 17 : Jeilious_1
- Track 18 : ShaboiShabazz_1, Peeb_1, Sweets_1, Maliketh_1, Primanti_1, Cherrybomb426_1, Sizemore_1, Darionha_1, Mowgli_1, TinaBug_1, Schiebel_1, GoldenAsh_1, Phish_1, AizenPogi_1, Grizzly_1, Hotshotbaby7_1, ForeverHowLong_1, PinkYoshi_1, Neoh_1, Kasen3_1, Plagueis_1, DMoney_1, Olga_1
- Track 19 : Gomashi_1, Phloodle_1, CassieYates_1, Marmie_1, Crespo_1, Aroostook_1, Rabbs_1, Barkley26_1, Angel_1, BruceB_1, ECartman_1, Ruriko_1, Hope_1, Halo_1, Gideon_1, LouisV14_1, Jolene_1, Frosty24_1, Avrafan_1, Jane_1, JorRay_1, TomBrady_1, Phreak_1, DingDing_1, BPs_1, CLED96_1, ZoMa_1, Jonghyun_1, Zombie_1, Camri_1, OctaviousRex_1, Rattrick_1, Annihilator_1, Renaissance_1, MZKinsey_1, Kareem_1, Remy19_1, Cedasite_1, Wendigo_1, Periodt_1, AzulaCat_1, Chance64_1, Richarlison_1, Sneeze_1, BQuat_1, Coleslaw_1
- Track 20 : Taheera_1, Terror_1
- Track 21 : Liefie_1
- Track 22 : DNAIII_001
- Track 23 : Paito_1
- Track 24 : GodSpeed_1, Pace1224_1, FlagStaff_1
- Track 25 : Avocado_1
- Track 26 : Cambiare_2

- Track 27 : Cloudyecho_1
- Track 28 : Pinnie_2
- Track 29 : MOOREtheMARYer_1
- Track 30 : Jolie2_1
- Track 31 : Mercurio_2
- Track 32 : Lemuria_1
- Track 33 : YangYin_1, Stargaze_1
- Track 34 : Antsirabe_1
- Track 35 : InvictusManeo_5, Larva_5, Kratio_4
- Track 36 : AlleyCat_5, Psycho_5
- Track 37 : Murai_30, Familton_30, Idergollasper_29, FoulBall_29, KingPhillip3_29, JangDynasty_29, TelAviv_27
- Track 38 : Vorrrps_29, Corndog_31, Bora_27, Wildflower_30, Ashwin_31, Mori_29, NiebruSaylor_29, Zakhe101_30, Shida_30, Dylan_29, Firecracker_30, Krili_29
- Track 39 : Blessica_30, Zebo_29, MadKillah_31, Smooch_32, Wogge42_29, Schuy_31, Imara_30, Alkhayr_30, Vagabond_30
- Track 40 : YoyoKar_28, SchoolBus_29, Winget_30, Ryadel_32, Catdawg_29
- Track 41 : YungJamal_32
- Track 42 : ArV2_01
- Track 43 : LilSpotty_1
- Track 44 : Spartoi_1
- Track 45 : MooMoo_1

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

The start number called the most often in the published annotations is 17, it was called in 49 of the 143 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel_1, Annihilator_1, Aroostook_1, Avrafan_1, AzulaCat_1, BPs_1, BQuat_1, Barkley26_1, BruceB_1, CLED96_1, Camri_1, CassieYates_1, Cedasite_1, Chance64_1, Coleslaw_1, Crespo_1, DNAIII_001, DingDing_1, ECartman_1, Frosty24_1, Gideon_1, Gomashi_1, Halo_1, Hope_1, Jane_1, Jeilious_1, Jolene_1, Jonghyun_1, JorRay_1, Kareem_1, Liefie_1, LouisV14_1, MZKinsey_1, Marmie_1, OctaviousRex_1, Periodt_1, Phloodle_1, Phreak_1, Rabbs_1, Rattrick_1, Remy19_1, Renaissance_1, Richarlison_1, Ruriko_1, Sneeze_1, TomBrady_1, Wendigo_1, ZoMa_1, Zombie_1,

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

- AizenPogi_1, Ashwin_31, Bora_27, Cherrybomb426_1, Corndog_31, DMoney_1, Darionha_1, Dylan_29, Firecracker_30, ForeverHowLong_1, GoldenAsh_1, Grizzly_1, Hotshotbaby7_1, Kasen3_1, Krili_29, Maliketh_1, Mori_29, Mowgli_1, Neoh_1, NiebruSaylor_29, Olga_1, Peeb_1, Phish_1, PinkYoshi_1, Plagueis_1, Primanti_1, Schiebel_1, ShaboiShabazz_1, Shida_30, Sizemore_1, Sweets_1, TinaBug_1, Vorrrps_29, Wildflower_30, YungJamal_32, Zakhe101_30,

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

- AbbyDaisy_2, Alatato_1, Alkhayr_30, AlleyCat_5, Antsirabe_1, ArV2_01, Avocado_1, B22_2, Blessica_30, BrayBeast_1, Cambiare_2, Catdawg_29, Cloudyecho_1, Doucette_2, E6_2, Familton_30, FlagStaff_1, FoulBall_29, G4_2,

Gibbzilla_1, GodSpeed_1, Idergollasper_29, Imara_30, InLimbo_1, InvictusManeo_5, JangDynasty_29, JeanClaude_1, Jolie2_1, KingPhillip3_29, Kratio_4, Kumotta_2, Larva_5, Lemuria_1, LilSpotty_1, Lucky10_1, MOOREtheMARYer_1, MadKillah_31, MargaretKali_2, Mercurio_2, Merpity_1, MooMoo_1, Morkie_1, MrSmee_1, Murai_30, Neroxid_1, Pace1224_1, Paito_1, PhorbesPhlower_1, Pigu_1, Pinnie_2, Pitbull_1, Psycho_5, Raqqa_2, Raya_1, Rooter_1, Ryadel_32, Sarge_1, SchoolBus_29, Schuy_31, Shoya_1, Skitty_1, Skyerus_1, Smooch_32, Spartoi_1, Stargaze_1, Taheera_1, TelAviv_27, Terror_1, Vagabond_30, Winget_30, Wogge42_29, YangYin_1, YoyoKar_28, Zebo_29,

Summary by start number:

Start 17:

- Found in 85 of 159 (53.5%) of genes in pham
- Manual Annotations of this start: 49 of 143
- Called 57.6% of time when present
- Phage (with cluster) where this start called: Angel_1 (G1), Annihilator_1 (G1), Aroostook_1 (G1), Avrafan_1 (G1), AzulaCat_1 (G1), BPs_1 (G1), BQuat_1 (G1), Barkley26_1 (G1), BruceB_1 (G1), CLED96_1 (G1), Camri_1 (G1), CassieYates_1 (G1), Cedasite_1 (G1), Chance64_1 (G1), Coleslaw_1 (G1), Crespo_1 (G1), DNAIII_001 (G1), DingDing_1 (G1), ECartman_1 (G1), Frosty24_1 (G1), Gideon_1 (G1), Gomashi_1 (G1), Halo_1 (G1), Hope_1 (G1), Jane_1 (G1), Jeilious_1 (G), Jolene_1 (G1), Jonghyun_1 (G1), JorRay_1 (G1), Kareem_1 (G1), Liefie_1 (G1), LouisV14_1 (G1), MZKinsey_1 (G1), Marmie_1 (G1), OctaviousRex_1 (G1), Periodt_1 (G1), Phloodle_1 (G1), Phreak_1 (G1), Rabbs_1 (G1), Rattrick_1 (G1), Remy19_1 (G1), Renaissance_1 (G1), Richarlison_1 (G1), Ruriko_1 (G1), Sneeze_1 (G1), TomBrady_1 (G1), Wendigo_1 (G1), ZoMa_1 (G1), Zombie_1 (G1),

Start 18:

- Found in 77 of 159 (48.4%) of genes in pham
- Manual Annotations of this start: 23 of 143
- Called 35.1% of time when present
- Phage (with cluster) where this start called: AizenPogi_1 (G1), Cherrybomb426_1 (G1), DMoney_1 (G1), Darionha_1 (G1), ForeverHowLong_1 (G1), GoldenAsh_1 (G1), Grizzly_1 (G1), Hotshotbaby7_1 (G1), Jolie2_1 (G4), Kasen3_1 (G1), Lemuria_1 (G4), Maliketh_1 (G1), Mowgli_1 (G1), Neoh_1 (G), Olga_1 (G1), Peeb_1 (G1), Phish_1 (G1), PinkYoshi_1 (G1), Plagueis_1 (G1), Primanti_1 (G1), Schiebel_1 (G1), ShaboShabazz_1 (G1), Sizemore_1 (G1), Sweets_1 (G1), Taheera_1 (G1), Terror_1 (G1), TinaBug_1 (G1),

Start 21:

- Found in 5 of 159 (3.1%) of genes in pham
- Manual Annotations of this start: 5 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlleyCat_5 (K5), InvictusManeo_5 (K5), Kratio_4 (K5), Larva_5 (K5), Psycho_5 (K5),

Start 22:

- Found in 1 of 159 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cambiare_2 (G2),

Start 23:

- Found in 11 of 159 (6.9%) of genes in pham
- Manual Annotations of this start: 9 of 143
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Antsirabe_1 (G5), Avocado_1 (G2), Cloudyecho_1 (G3), FlagStaff_1 (G2), GodSpeed_1 (G2), MOOREtheMARYer_1 (G3), Pace1224_1 (G2), Pinnie_2 (G3), Stargaze_1 (G5), YangYin_1 (G5),

Start 25:

- Found in 1 of 159 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Paito_1 (G1),

Start 27:

- Found in 1 of 159 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_01 (singleton),

Start 28:

- Found in 6 of 159 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Mercurio_2 (G4),

Start 36:

- Found in 11 of 159 (6.9%) of genes in pham
- Manual Annotations of this start: 4 of 143
- Called 54.5% of time when present
- Phage (with cluster) where this start called: Alatato_1 (FB), BrayBeast_1 (FB), Gibbzilla_1 (FB), JeanClaude_1 (FB), Pigu_1 (FB), Sarge_1 (FB),

Start 37:

- Found in 1 of 159 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MooMoo_1 (singleton),

Start 38:

- Found in 1 of 159 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pitbull_1 (FQ1),

Start 39:

- Found in 18 of 159 (11.3%) of genes in pham
- Manual Annotations of this start: 11 of 143
- Called 88.9% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_2 (AY), B22_2 (BW), Doucette_2 (BW), E6_2 (BW), G4_2 (BW), Kumotta_2 (FB), Merpity_1 (FQ1), MrSmee_1 (FQ1), Neroxid_1 (FQ2), Raqqa_2 (AY), Raya_1 (FQ2), Rootier_1 (FB), Shoya_1 (FB), Skitty_1 (FQ1), Skyerus_1 (FQ2), Spartoi_1 (singleton),

Start 40:

- Found in 5 of 159 (3.1%) of genes in pham
- Manual Annotations of this start: 4 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: InLimbo_1 (DH), Lucky10_1 (DH), MargaretKali_2 (FB), Morkie_1 (DH), PhorbesPhlower_1 (DH),

Start 42:

- Found in 1 of 159 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 143
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_1 (singleton),

Start 43:

- Found in 35 of 159 (22.0%) of genes in pham
- Manual Annotations of this start: 27 of 143
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_30 (O), Ashwin_31 (O), Blessica_30 (O), Bora_27 (O), Corndog_31 (O), Dylan_29 (O), Familton_30 (O), Firecracker_30 (O), FoulBall_29 (O), Idergollasper_29 (O), Imara_30 (O), JangDynasty_29 (O), KingPhillip3_29 (O), Krili_29 (O), MadKillah_31 (O), Mori_29 (O), Murai_30 (O), NiebruSaylor_29 (O), Schuy_31 (O), Shida_30 (O), Smooch_32 (O), TelAviv_27 (O), Vagabond_30 (O), Vorrps_29 (O), Wildflower_30 (O), Wogge42_29 (O), Zakhe101_30 (O), Zebo_29 (O),

Start 45:

- Found in 35 of 159 (22.0%) of genes in pham
- Manual Annotations of this start: 5 of 143
- Called 17.1% of time when present
- Phage (with cluster) where this start called: Catdawg_29 (O), Ryadel_32 (O), SchoolBus_29 (O), Winget_30 (O), YoyoKar_28 (O), YungJamal_32 (O),

Summary by clusters:

There are 15 clusters represented in this pham: G5, G4, G3, G2, G1, singleton, O, G, FQ2, FB, BW, DH, AY, K5, FQ1,

Info for manual annotations of cluster AY:

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

Info for manual annotations of cluster BW:

- Start number 39 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster DH:

- Start number 40 was manually annotated 3 times for cluster DH.

Info for manual annotations of cluster FB:

- Start number 36 was manually annotated 4 times for cluster FB.
- Start number 39 was manually annotated 3 times for cluster FB.
- Start number 40 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FQ1:

- Start number 38 was manually annotated 1 time for cluster FQ1.
- Start number 39 was manually annotated 2 times for cluster FQ1.

Info for manual annotations of cluster G:

- Start number 17 was manually annotated 1 time for cluster G.
- Start number 18 was manually annotated 1 time for cluster G.

Info for manual annotations of cluster G1:

- Start number 17 was manually annotated 48 times for cluster G1.
- Start number 18 was manually annotated 21 times for cluster G1.
- Start number 25 was manually annotated 1 time for cluster G1.

Info for manual annotations of cluster G2:

- Start number 22 was manually annotated 1 time for cluster G2.
- Start number 23 was manually annotated 3 times for cluster G2.

Info for manual annotations of cluster G3:

- Start number 23 was manually annotated 3 times for cluster G3.

Info for manual annotations of cluster G4:

- Start number 18 was manually annotated 1 time for cluster G4.
- Start number 28 was manually annotated 1 time for cluster G4.

Info for manual annotations of cluster G5:

- Start number 23 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster K5:

- Start number 21 was manually annotated 5 times for cluster K5.

Info for manual annotations of cluster O:

- Start number 43 was manually annotated 27 times for cluster O.
- Start number 45 was manually annotated 5 times for cluster O.

Gene Information:

Gene: AbbyDaisy_2 Start: 413, Stop: 712, Start Num: 39

Candidate Starts for AbbyDaisy_2:

(Start: 39 @413 has 11 MA's), (46, 437), (61, 521), (63, 530),

Gene: AizenPogi_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for AizenPogi_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Alatato_1 Start: 48, Stop: 362, Start Num: 36

Candidate Starts for Alatato_1:

(Start: 36 @48 has 4 MA's), (46, 84), (48, 99), (52, 129), (59, 165), (66, 198), (84, 282),

Gene: Alkhayr_30 Start: 13181, Stop: 13480, Start Num: 43

Candidate Starts for Alkhayr_30:

(15, 13058), (Start: 43 @13181 has 27 MA's), (Start: 45 @13190 has 5 MA's), (71, 13331), (79, 13373),

Gene: AlleyCat_5 Start: 997, Stop: 1356, Start Num: 21

Candidate Starts for AlleyCat_5:

(Start: 21 @997 has 5 MA's), (30, 1027), (41, 1054), (51, 1120), (53, 1123), (55, 1129), (59, 1153), (63, 1171), (68, 1195), (72, 1225), (77, 1249), (91, 1318), (94, 1333),

Gene: Angel_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Angel_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Annihilator_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Annihilator_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Antsirabe_1 Start: 53, Stop: 382, Start Num: 23

Candidate Starts for Antsirabe_1:

(Start: 23 @53 has 9 MA's), (34, 80), (53, 146), (63, 191), (68, 215), (72, 245), (76, 266),

Gene: ArV2_01 Start: 36, Stop: 380, Start Num: 27

Candidate Starts for ArV2_01:

(16, 3), (19, 18), (27, 36), (Start: 36 @66 has 4 MA's), (Start: 39 @75 has 11 MA's), (46, 102), (49, 126), (50, 141), (53, 147), (61, 186), (63, 195), (66, 210), (68, 219), (76, 270),

Gene: Aroostook_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Aroostook_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Ashwin_31 Start: 13191, Stop: 13490, Start Num: 43

Candidate Starts for Ashwin_31:

(Start: 17 @13113 has 49 MA's), (Start: 43 @13191 has 27 MA's), (Start: 45 @13200 has 5 MA's), (71, 13341), (79, 13383),

Gene: Avocado_1 Start: 54, Stop: 380, Start Num: 23

Candidate Starts for Avocado_1:

(Start: 23 @54 has 9 MA's), (53, 144), (60, 177), (63, 189), (75, 255), (78, 273), (79, 276), (82, 285),

Gene: Avrafan_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Avrafan_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: AzulaCat_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for AzulaCat_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: B22_2 Start: 706, Stop: 1002, Start Num: 39

Candidate Starts for B22_2:

(Start: 39 @706 has 11 MA's), (46, 727), (61, 811), (64, 832), (68, 844), (77, 898),

Gene: BPs_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for BPs_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: BQuat_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for BQuat_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Barkley26_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Barkley26_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Blessica_30 Start: 13214, Stop: 13513, Start Num: 43

Candidate Starts for Blessica_30:

(15, 13091), (Start: 43 @13214 has 27 MA's), (Start: 45 @13223 has 5 MA's), (71, 13364), (79, 13406),

Gene: Bora_27 Start: 12644, Stop: 12943, Start Num: 43

Candidate Starts for Bora_27:

(Start: 17 @12566 has 49 MA's), (Start: 43 @12644 has 27 MA's), (Start: 45 @12653 has 5 MA's), (71, 12794), (79, 12836),

Gene: BrayBeast_1 Start: 49, Stop: 357, Start Num: 36

Candidate Starts for BrayBeast_1:

(Start: 28 @28 has 1 MA's), (Start: 36 @49 has 4 MA's), (46, 85), (56, 142), (84, 277),

Gene: BruceB_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for BruceB_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: CLED96_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for CLED96_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Cambiare_2 Start: 534, Stop: 869, Start Num: 22

Candidate Starts for Cambiare_2:

(11, 384), (Start: 18 @525 has 23 MA's), (Start: 22 @534 has 1 MA's), (30, 555), (34, 564), (53, 633), (58, 651), (60, 666), (77, 756), (82, 774), (84, 783),

Gene: Camri_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Camri_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: CassieYates_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for CassieYates_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Catdawg_29 Start: 12829, Stop: 13119, Start Num: 45

Candidate Starts for Catdawg_29:

(15, 12697), (Start: 43 @12820 has 27 MA's), (Start: 45 @12829 has 5 MA's), (71, 12970), (79, 13012),

Gene: Cedasite_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Cedasite_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Chance64_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Chance64_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Cherrybomb426_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Cherrybomb426_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Cloudyecho_1 Start: 52, Stop: 381, Start Num: 23

Candidate Starts for Cloudyecho_1:

(20, 49), (Start: 23 @52 has 9 MA's), (34, 79), (53, 145), (60, 178), (63, 190), (75, 256), (78, 274), (80, 280), (84, 295), (92, 337),

Gene: Coleslaw_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Coleslaw_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Corndog_31 Start: 13270, Stop: 13569, Start Num: 43

Candidate Starts for Corndog_31:

(Start: 17 @13192 has 49 MA's), (Start: 43 @13270 has 27 MA's), (Start: 45 @13279 has 5 MA's), (71, 13420), (79, 13462),

Gene: Crespo_1 Start: 44, Stop: 388, Start Num: 17

Candidate Starts for Crespo_1:

(Start: 17 @44 has 49 MA's), (Start: 18 @47 has 23 MA's), (53, 149), (68, 218), (76, 269),

Gene: DMoney_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for DMoney_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: DNAIII_001 Start: 52, Stop: 396, Start Num: 17

Candidate Starts for DNAIII_001:

(Start: 17 @52 has 49 MA's), (Start: 18 @55 has 23 MA's), (53, 157), (68, 226), (76, 277),

Gene: Darionha_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Darionha_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: DingDing_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for DingDing_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Doucette_2 Start: 706, Stop: 1002, Start Num: 39

Candidate Starts for Doucette_2:

(Start: 39 @706 has 11 MA's), (46, 727), (61, 811), (64, 832), (68, 844), (77, 898),

Gene: Dylan_29 Start: 12996, Stop: 13295, Start Num: 43

Candidate Starts for Dylan_29:

(Start: 17 @12918 has 49 MA's), (Start: 43 @12996 has 27 MA's), (Start: 45 @13005 has 5 MA's), (71, 13146), (79, 13188),

Gene: E6_2 Start: 707, Stop: 1003, Start Num: 39

Candidate Starts for E6_2:

(6, 446), (8, 467), (12, 527), (13, 539), (14, 578), (Start: 39 @707 has 11 MA's), (46, 728), (61, 812), (64, 833), (68, 845), (77, 899),

Gene: ECartman_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for ECartman_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Familton_30 Start: 12824, Stop: 13123, Start Num: 43

Candidate Starts for Familton_30:

(Start: 43 @12824 has 27 MA's), (Start: 45 @12833 has 5 MA's), (71, 12974), (79, 13016),

Gene: Firecracker_30 Start: 12894, Stop: 13193, Start Num: 43

Candidate Starts for Firecracker_30:

(Start: 17 @12816 has 49 MA's), (Start: 43 @12894 has 27 MA's), (Start: 45 @12903 has 5 MA's), (71, 13044), (79, 13086),

Gene: FlagStaff_1 Start: 52, Stop: 387, Start Num: 23

Candidate Starts for FlagStaff_1:

(Start: 23 @52 has 9 MA's), (34, 79), (68, 214), (72, 244),

Gene: ForeverHowLong_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for ForeverHowLong_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: FoulBall_29 Start: 12818, Stop: 13117, Start Num: 43

Candidate Starts for FoulBall_29:

(Start: 43 @12818 has 27 MA's), (Start: 45 @12827 has 5 MA's), (71, 12968), (79, 13010),

Gene: Frosty24_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Frosty24_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: G4_2 Start: 706, Stop: 1002, Start Num: 39

Candidate Starts for G4_2:

(Start: 39 @706 has 11 MA's), (46, 727), (61, 811), (64, 832), (68, 844), (77, 898),

Gene: Gibbzilla_1 Start: 49, Stop: 357, Start Num: 36

Candidate Starts for Gibbzilla_1:

(Start: 28 @28 has 1 MA's), (31, 37), (32, 40), (Start: 36 @49 has 4 MA's), (46, 85), (52, 124), (56, 142), (62, 172), (84, 277),

Gene: Gideon_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Gideon_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: GodSpeed_1 Start: 52, Stop: 387, Start Num: 23

Candidate Starts for GodSpeed_1:

(Start: 23 @52 has 9 MA's), (34, 79), (68, 214), (72, 244),

Gene: GoldenAsh_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for GoldenAsh_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Gomashi_1 Start: 44, Stop: 388, Start Num: 17

Candidate Starts for Gomashi_1:

(Start: 17 @44 has 49 MA's), (Start: 18 @47 has 23 MA's), (53, 149), (68, 218), (76, 269),

Gene: Grizzly_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Grizzly_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Halo_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Halo_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Hope_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Hope_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Hotshotbaby7_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Hotshotbaby7_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Idergollasper_29 Start: 12818, Stop: 13117, Start Num: 43

Candidate Starts for Idergollasper_29:

(Start: 43 @12818 has 27 MA's), (Start: 45 @12827 has 5 MA's), (71, 12968), (79, 13010),

Gene: Imara_30 Start: 13067, Stop: 13366, Start Num: 43

Candidate Starts for Imara_30:

(15, 12944), (Start: 43 @13067 has 27 MA's), (Start: 45 @13076 has 5 MA's), (71, 13217), (79, 13259),

Gene: InLimbo_1 Start: 44, Stop: 346, Start Num: 40

Candidate Starts for InLimbo_1:

(Start: 40 @44 has 4 MA's), (52, 110), (61, 155), (63, 164), (64, 176), (77, 242), (88, 299),

Gene: InvictusManeo_5 Start: 979, Stop: 1338, Start Num: 21

Candidate Starts for InvictusManeo_5:

(Start: 21 @979 has 5 MA's), (30, 1009), (41, 1036), (51, 1102), (53, 1105), (55, 1111), (59, 1135), (63, 1153), (68, 1177), (77, 1231), (91, 1300), (94, 1315),

Gene: Jane_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Jane_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: JangDynasty_29 Start: 12913, Stop: 13212, Start Num: 43

Candidate Starts for JangDynasty_29:

(Start: 43 @12913 has 27 MA's), (Start: 45 @12922 has 5 MA's), (71, 13063), (79, 13105),

Gene: JeanClaude_1 Start: 49, Stop: 357, Start Num: 36

Candidate Starts for JeanClaude_1:

(Start: 28 @28 has 1 MA's), (Start: 36 @49 has 4 MA's), (46, 85), (56, 142), (84, 277),

Gene: Jeilious_1 Start: 42, Stop: 386, Start Num: 17

Candidate Starts for Jeilious_1:

(Start: 17 @42 has 49 MA's), (Start: 18 @45 has 23 MA's), (53, 147), (68, 216), (76, 267),

Gene: Jolene_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Jolene_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Jolie2_1 Start: 45, Stop: 404, Start Num: 18
Candidate Starts for Jolie2_1:
(Start: 18 @45 has 23 MA's), (74, 264), (78, 285), (93, 363),

Gene: Jonghyun_1 Start: 43, Stop: 387, Start Num: 17
Candidate Starts for Jonghyun_1:
(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: JorRay_1 Start: 43, Stop: 387, Start Num: 17
Candidate Starts for JorRay_1:
(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Kareem_1 Start: 43, Stop: 387, Start Num: 17
Candidate Starts for Kareem_1:
(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Kasen3_1 Start: 46, Stop: 387, Start Num: 18
Candidate Starts for Kasen3_1:
(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: KingPhillip3_29 Start: 12818, Stop: 13117, Start Num: 43
Candidate Starts for KingPhillip3_29:
(Start: 43 @12818 has 27 MA's), (Start: 45 @12827 has 5 MA's), (71, 12968), (79, 13010),

Gene: Kratio_4 Start: 736, Stop: 1095, Start Num: 21
Candidate Starts for Kratio_4:
(Start: 21 @736 has 5 MA's), (30, 766), (41, 793), (51, 859), (53, 862), (55, 868), (59, 892), (63, 910),
(68, 934), (77, 988), (91, 1057), (94, 1072),

Gene: Krili_29 Start: 12988, Stop: 13287, Start Num: 43
Candidate Starts for Krili_29:
(Start: 17 @12910 has 49 MA's), (Start: 43 @12988 has 27 MA's), (Start: 45 @12997 has 5 MA's), (71, 13138), (79, 13180),

Gene: Kumotta_2 Start: 743, Stop: 1042, Start Num: 39
Candidate Starts for Kumotta_2:
(Start: 36 @734 has 4 MA's), (Start: 39 @743 has 11 MA's), (Start: 43 @758 has 27 MA's), (Start: 45 @767 has 5 MA's), (54, 821), (63, 866), (72, 917), (91, 1010),

Gene: Larva_5 Start: 738, Stop: 1097, Start Num: 21
Candidate Starts for Larva_5:
(Start: 21 @738 has 5 MA's), (30, 768), (41, 795), (51, 861), (53, 864), (55, 870), (59, 894), (63, 912),
(68, 936), (77, 990), (91, 1059), (94, 1074),

Gene: Lemuria_1 Start: 45, Stop: 404, Start Num: 18
Candidate Starts for Lemuria_1:
(Start: 18 @45 has 23 MA's), (68, 225), (78, 285), (92, 360),

Gene: Liefie_1 Start: 42, Stop: 386, Start Num: 17
Candidate Starts for Liefie_1:
(Start: 17 @42 has 49 MA's), (Start: 18 @45 has 23 MA's), (53, 147), (68, 216), (76, 267), (84, 297),

Gene: LilSpotty_1 Start: 54, Stop: 344, Start Num: 42

Candidate Starts for LilSpotty_1:

(Start: 42 @54 has 1 MA's), (47, 75), (65, 162), (69, 183), (80, 237), (81, 240), (82, 243), (91, 297),

Gene: LouisV14_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for LouisV14_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Lucky10_1 Start: 45, Stop: 347, Start Num: 40

Candidate Starts for Lucky10_1:

(Start: 40 @45 has 4 MA's), (52, 111), (53, 117), (54, 120), (61, 156), (63, 165), (64, 177), (77, 243), (88, 300),

Gene: MOOREtheMARYer_1 Start: 53, Stop: 379, Start Num: 23

Candidate Starts for MOOREtheMARYer_1:

(20, 50), (Start: 23 @53 has 9 MA's), (34, 80), (53, 143), (60, 176), (63, 188), (75, 254), (78, 272),

Gene: MZKinsey_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for MZKinsey_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: MadKillah_31 Start: 13207, Stop: 13506, Start Num: 43

Candidate Starts for MadKillah_31:

(15, 13084), (Start: 43 @13207 has 27 MA's), (Start: 45 @13216 has 5 MA's), (71, 13357), (79, 13399),

Gene: Maliketh_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Maliketh_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: MargaretKali_2 Start: 578, Stop: 871, Start Num: 40

Candidate Starts for MargaretKali_2:

(Start: 40 @578 has 4 MA's), (44, 593), (62, 680), (63, 686), (67, 704), (68, 710),

Gene: Marmie_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Marmie_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Mercurio_2 Start: 700, Stop: 1044, Start Num: 28

Candidate Starts for Mercurio_2:

(1, 271), (2, 343), (3, 349), (4, 355), (5, 415), (9, 514), (10, 523), (24, 691), (26, 697), (Start: 28 @700 has 1 MA's), (63, 844), (68, 868), (72, 898), (73, 901), (92, 1000),

Gene: Merpity_1 Start: 51, Stop: 347, Start Num: 39

Candidate Starts for Merpity_1:

(Start: 36 @45 has 4 MA's), (Start: 39 @51 has 11 MA's), (61, 156), (63, 165), (68, 189), (74, 228), (84, 270),

Gene: MooMoo_1 Start: 63, Stop: 377, Start Num: 37

Candidate Starts for MooMoo_1:

(Start: 37 @63 has 1 MA's), (44, 87), (52, 138), (62, 186), (63, 192), (68, 216), (76, 267), (83, 294), (84, 297), (85, 303),

Gene: Mori_29 Start: 12859, Stop: 13158, Start Num: 43

Candidate Starts for Mori_29:

(Start: 17 @12781 has 49 MA's), (Start: 43 @12859 has 27 MA's), (Start: 45 @12868 has 5 MA's), (71, 13009), (79, 13051),

Gene: Morkie_1 Start: 44, Stop: 346, Start Num: 40

Candidate Starts for Morkie_1:

(Start: 40 @44 has 4 MA's), (52, 110), (61, 155), (63, 164), (64, 176), (77, 242), (88, 299),

Gene: Mowgli_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Mowgli_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: MrSmee_1 Start: 51, Stop: 347, Start Num: 39

Candidate Starts for MrSmee_1:

(Start: 36 @45 has 4 MA's), (Start: 39 @51 has 11 MA's), (61, 156), (63, 165), (68, 189), (74, 228), (84, 270),

Gene: Murai_30 Start: 13049, Stop: 13348, Start Num: 43

Candidate Starts for Murai_30:

(Start: 43 @13049 has 27 MA's), (Start: 45 @13058 has 5 MA's), (71, 13199), (79, 13241),

Gene: Neoh_1 Start: 47, Stop: 388, Start Num: 18

Candidate Starts for Neoh_1:

(Start: 17 @44 has 49 MA's), (Start: 18 @47 has 23 MA's), (53, 149), (68, 218), (76, 269),

Gene: Neroxid_1 Start: 70, Stop: 369, Start Num: 39

Candidate Starts for Neroxid_1:

(Start: 39 @70 has 11 MA's), (46, 97), (49, 112), (53, 130), (63, 178), (70, 220), (72, 232), (74, 241), (75, 244), (89, 316), (90, 322),

Gene: NiebruSaylor_29 Start: 12860, Stop: 13159, Start Num: 43

Candidate Starts for NiebruSaylor_29:

(Start: 17 @12782 has 49 MA's), (Start: 43 @12860 has 27 MA's), (Start: 45 @12869 has 5 MA's), (71, 13010), (79, 13052),

Gene: OctaviousRex_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for OctaviousRex_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Olga_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Olga_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Pace1224_1 Start: 52, Stop: 387, Start Num: 23

Candidate Starts for Pace1224_1:

(Start: 23 @52 has 9 MA's), (34, 79), (68, 214), (72, 244),

Gene: Paito_1 Start: 47, Stop: 382, Start Num: 25

Candidate Starts for Paito_1:

(Start: 25 @47 has 1 MA's), (30, 62), (60, 173), (68, 209), (73, 242),

Gene: Peeb_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Peeb_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Periodt_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Periodt_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Phish_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Phish_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Phloodle_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Phloodle_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: PhorbesPhlower_1 Start: 44, Stop: 346, Start Num: 40

Candidate Starts for PhorbesPhlower_1:

(Start: 40 @44 has 4 MA's), (52, 110), (61, 155), (63, 164), (64, 176), (77, 242), (88, 299),

Gene: Phreak_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Phreak_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Pigu_1 Start: 55, Stop: 363, Start Num: 36

Candidate Starts for Pigu_1:

(Start: 28 @28 has 1 MA's), (Start: 36 @55 has 4 MA's), (46, 91), (52, 130), (84, 283),

Gene: PinkYoshi_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for PinkYoshi_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Pinnie_2 Start: 520, Stop: 846, Start Num: 23

Candidate Starts for Pinnie_2:

(7, 322), (Start: 23 @520 has 9 MA's), (34, 547), (53, 613), (60, 646), (63, 658), (75, 724), (78, 742), (80, 748),

Gene: Pitbull_1 Start: 58, Stop: 360, Start Num: 38

Candidate Starts for Pitbull_1:

(Start: 38 @58 has 1 MA's), (Start: 39 @61 has 11 MA's), (44, 79), (46, 88), (72, 235), (74, 244), (76, 256), (77, 259),

Gene: Plagueis_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Plagueis_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Primanti_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Primanti_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Psycho_5 Start: 997, Stop: 1356, Start Num: 21

Candidate Starts for Psycho_5:

(Start: 21 @997 has 5 MA's), (30, 1027), (41, 1054), (51, 1120), (53, 1123), (55, 1129), (59, 1153), (63, 1171), (68, 1195), (72, 1225), (77, 1249), (91, 1318), (94, 1333),

Gene: Rabbs_1 Start: 44, Stop: 388, Start Num: 17

Candidate Starts for Rabbs_1:

(Start: 17 @44 has 49 MA's), (Start: 18 @47 has 23 MA's), (53, 149), (68, 218), (76, 269),

Gene: Raqqa_2 Start: 745, Stop: 1044, Start Num: 39

Candidate Starts for Raqqa_2:

(35, 736), (Start: 39 @745 has 11 MA's), (46, 769), (61, 853), (62, 856), (63, 862),

Gene: Rattrick_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Rattrick_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Raya_1 Start: 70, Stop: 369, Start Num: 39

Candidate Starts for Raya_1:

(Start: 39 @70 has 11 MA's), (46, 97), (49, 112), (53, 130), (63, 178), (70, 220), (72, 232), (74, 241), (75, 244), (89, 316), (90, 322),

Gene: Remy19_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Remy19_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Renaissance_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Renaissance_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Richarlison_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Richarlison_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Rooter_1 Start: 59, Stop: 364, Start Num: 39

Candidate Starts for Rooter_1:

(Start: 39 @59 has 11 MA's), (48, 101), (91, 332),

Gene: Ruriko_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Ruriko_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Ryadel_32 Start: 13643, Stop: 13933, Start Num: 45

Candidate Starts for Ryadel_32:

(15, 13511), (Start: 43 @13634 has 27 MA's), (Start: 45 @13643 has 5 MA's), (71, 13784), (79, 13826),

Gene: Sarge_1 Start: 49, Stop: 357, Start Num: 36

Candidate Starts for Sarge_1:

(Start: 28 @28 has 1 MA's), (Start: 36 @49 has 4 MA's), (46, 85), (56, 142), (84, 277),

Gene: Schiebel_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Schiebel_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: SchoolBus_29 Start: 12830, Stop: 13120, Start Num: 45

Candidate Starts for SchoolBus_29:

(15, 12698), (Start: 43 @12821 has 27 MA's), (Start: 45 @12830 has 5 MA's), (71, 12971), (79, 13013),

Gene: Schuy_31 Start: 13207, Stop: 13506, Start Num: 43

Candidate Starts for Schuy_31:

(15, 13084), (Start: 43 @13207 has 27 MA's), (Start: 45 @13216 has 5 MA's), (71, 13357), (79, 13399),

Gene: ShaboiShabazz_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for ShaboiShabazz_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Shida_30 Start: 13114, Stop: 13413, Start Num: 43

Candidate Starts for Shida_30:

(Start: 17 @13036 has 49 MA's), (Start: 43 @13114 has 27 MA's), (Start: 45 @13123 has 5 MA's), (71, 13264), (79, 13306),

Gene: Shoya_1 Start: 59, Stop: 364, Start Num: 39

Candidate Starts for Shoya_1:

(Start: 39 @59 has 11 MA's), (48, 101), (91, 332),

Gene: Sizemore_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Sizemore_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Skitty_1 Start: 51, Stop: 347, Start Num: 39

Candidate Starts for Skitty_1:

(Start: 36 @45 has 4 MA's), (Start: 39 @51 has 11 MA's), (61, 156), (63, 165), (68, 189), (74, 228), (84, 270),

Gene: Skyerus_1 Start: 70, Stop: 369, Start Num: 39

Candidate Starts for Skyerus_1:

(Start: 39 @70 has 11 MA's), (46, 97), (49, 112), (53, 130), (63, 178), (70, 220), (72, 232), (74, 241), (75, 244), (89, 316), (90, 322),

Gene: Smooch_32 Start: 14365, Stop: 14664, Start Num: 43

Candidate Starts for Smooch_32:

(15, 14242), (Start: 43 @14365 has 27 MA's), (Start: 45 @14374 has 5 MA's), (71, 14515), (79, 14557),

Gene: Sneeze_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Sneeze_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Spartoi_1 Start: 95, Stop: 397, Start Num: 39

Candidate Starts for Spartoi_1:

(Start: 23 @50 has 9 MA's), (29, 68), (33, 80), (Start: 39 @95 has 11 MA's), (53, 158), (57, 173), (63, 206), (72, 260), (75, 272), (86, 320), (88, 341),

Gene: Stargaze_1 Start: 52, Stop: 372, Start Num: 23

Candidate Starts for Stargaze_1:

(Start: 23 @52 has 9 MA's), (53, 136), (63, 181), (68, 205), (76, 256), (87, 310),

Gene: Sweets_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for Sweets_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Taheera_1 Start: 47, Stop: 391, Start Num: 18

Candidate Starts for Taheera_1:

(Start: 18 @47 has 23 MA's), (53, 149), (68, 218),

Gene: TelAviv_27 Start: 12815, Stop: 13114, Start Num: 43

Candidate Starts for TelAviv_27:

(Start: 43 @12815 has 27 MA's), (Start: 45 @12824 has 5 MA's), (71, 12965), (79, 13007),

Gene: Terror_1 Start: 47, Stop: 391, Start Num: 18

Candidate Starts for Terror_1:

(Start: 18 @47 has 23 MA's), (53, 149), (68, 218),

Gene: TinaBug_1 Start: 46, Stop: 387, Start Num: 18

Candidate Starts for TinaBug_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: TomBrady_1 Start: 44, Stop: 388, Start Num: 17

Candidate Starts for TomBrady_1:

(Start: 17 @44 has 49 MA's), (Start: 18 @47 has 23 MA's), (53, 149), (68, 218), (76, 269),

Gene: Vagabond_30 Start: 13088, Stop: 13387, Start Num: 43

Candidate Starts for Vagabond_30:

(15, 12965), (Start: 43 @13088 has 27 MA's), (Start: 45 @13097 has 5 MA's), (71, 13238), (79, 13280),

Gene: Vorrps_29 Start: 12860, Stop: 13159, Start Num: 43

Candidate Starts for Vorrps_29:

(Start: 17 @12782 has 49 MA's), (Start: 43 @12860 has 27 MA's), (Start: 45 @12869 has 5 MA's), (71, 13010), (79, 13052),

Gene: Wendigo_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Wendigo_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Wildflower_30 Start: 12855, Stop: 13154, Start Num: 43

Candidate Starts for Wildflower_30:

(Start: 17 @12777 has 49 MA's), (Start: 43 @12855 has 27 MA's), (Start: 45 @12864 has 5 MA's), (71, 13005), (79, 13047),

Gene: Winget_30 Start: 13096, Stop: 13386, Start Num: 45

Candidate Starts for Winget_30:

(15, 12964), (Start: 43 @13087 has 27 MA's), (Start: 45 @13096 has 5 MA's), (71, 13237), (79, 13279),

Gene: Wogge42_29 Start: 13177, Stop: 13476, Start Num: 43

Candidate Starts for Wogge42_29:

(15, 13054), (Start: 43 @13177 has 27 MA's), (Start: 45 @13186 has 5 MA's), (71, 13327), (79, 13369),

Gene: YangYin_1 Start: 52, Stop: 372, Start Num: 23

Candidate Starts for YangYin_1:

(Start: 23 @52 has 9 MA's), (53, 136), (63, 181), (68, 205), (76, 256), (87, 310),

Gene: YoyoKar_28 Start: 12831, Stop: 13121, Start Num: 45

Candidate Starts for YoyoKar_28:

(15, 12699), (Start: 43 @12822 has 27 MA's), (Start: 45 @12831 has 5 MA's), (71, 12972), (79, 13014),

Gene: YungJamal_32 Start: 13159, Stop: 13449, Start Num: 45

Candidate Starts for YungJamal_32:

(Start: 17 @13072 has 49 MA's), (Start: 43 @13150 has 27 MA's), (Start: 45 @13159 has 5 MA's), (71, 13300), (79, 13342),

Gene: Zakhe101_30 Start: 13000, Stop: 13299, Start Num: 43

Candidate Starts for Zakhe101_30:

(Start: 17 @12922 has 49 MA's), (Start: 43 @13000 has 27 MA's), (Start: 45 @13009 has 5 MA's), (71, 13150), (79, 13192),

Gene: Zebo_29 Start: 12821, Stop: 13120, Start Num: 43

Candidate Starts for Zebo_29:

(15, 12698), (Start: 43 @12821 has 27 MA's), (Start: 45 @12830 has 5 MA's), (71, 12971), (79, 13013),

Gene: ZoMa_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for ZoMa_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),

Gene: Zombie_1 Start: 43, Stop: 387, Start Num: 17

Candidate Starts for Zombie_1:

(Start: 17 @43 has 49 MA's), (Start: 18 @46 has 23 MA's), (53, 148), (68, 217), (76, 268),