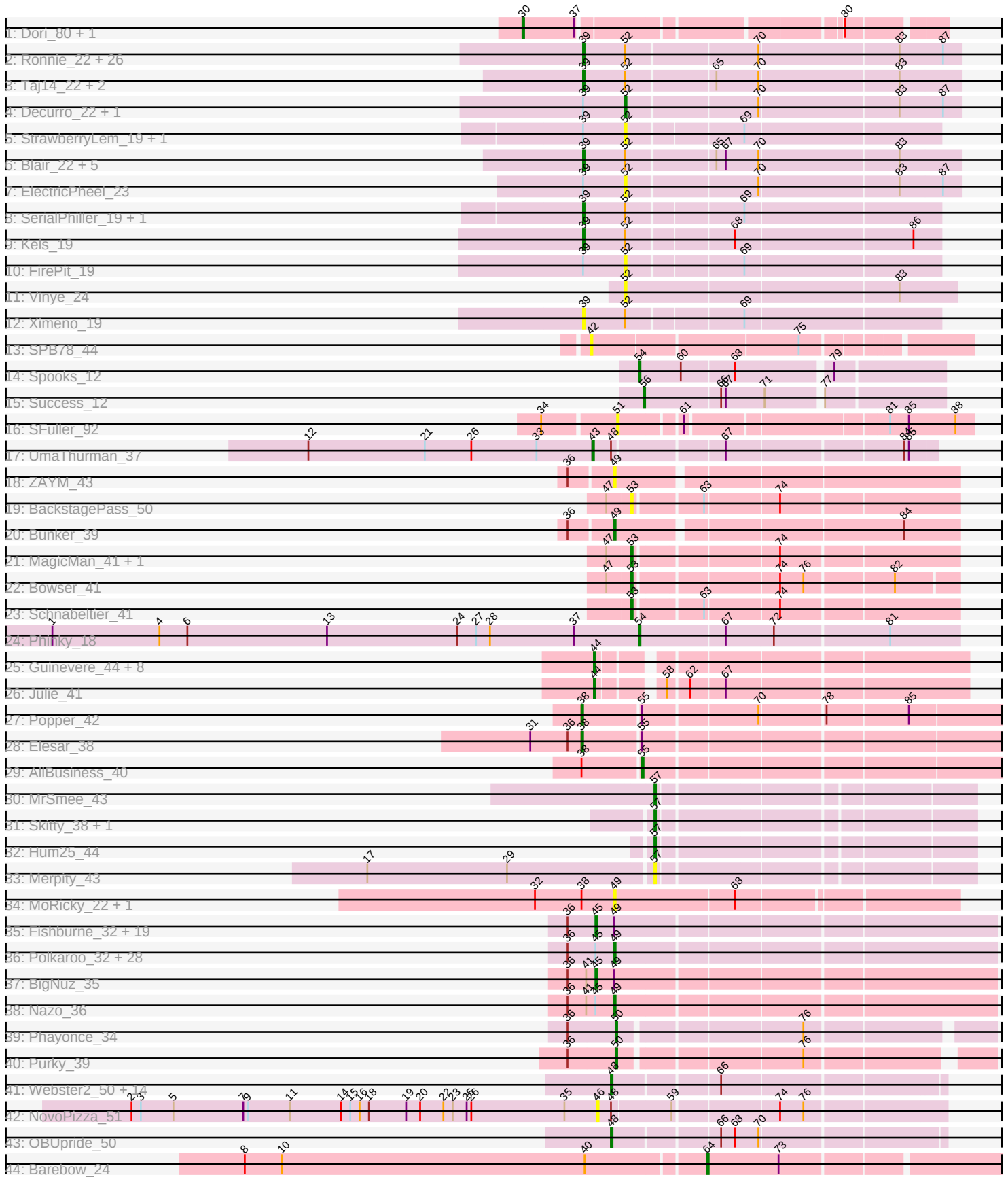


Pham 280157



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 280157 Report

This analysis was run 02/07/26 on database version 634.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 280157 has 153 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Dori_80, Mao1_82
- Track 2 : Ronnie_22, Inspire2_22, Guntur_22, Sandman_22, Azathoth_22, Courtney3_22, Stratus_22, Maggie_22, Copper_22, Link_22, Seume_22, Toulouse_21, LouisXIV_22, Moloch_22, TymAbreu_22, CGermain_22, Yank_22, Chestnut_22, Dewayne_22, Massimo_22, Hunnie_22, Arby_22, Prospero_22, Muttie_22, TinoCrisci_22, Mariposa_22, Sourignavong_23
- Track 3 : Taj14_22, Saphira_23, Swenson_22
- Track 4 : Decurro_22, Jessica_23
- Track 5 : StrawberryLem_19, Eyoseyas_19
- Track 6 : Blair_22, KylieMac_23, Laila_24, Elkhorn_22, StewieGriff_22, Lore_22
- Track 7 : ElectricPheel_23
- Track 8 : SerialPhiller_19, Arielagos_19
- Track 9 : Kels_19
- Track 10 : FirePit_19
- Track 11 : Vinye_24
- Track 12 : Ximeno_19
- Track 13 : SPB78_44
- Track 14 : Spooks_12
- Track 15 : Success_12
- Track 16 : SFuller_92
- Track 17 : UmaThurman_37
- Track 18 : ZAYM_43
- Track 19 : BackstagePass_50
- Track 20 : Bunker_39
- Track 21 : MagicMan_41, Eyes_39
- Track 22 : Bowser_41
- Track 23 : Schnabeltier_41
- Track 24 : Phinky_18
- Track 25 : Guinevere_44, Ichiang_41, Obliviate_39, Zaheer_44, QuinnAvery_44, Petra_40, Zarbodnamra_42, Halloweekend_39, Schism_46
- Track 26 : Julie_41
- Track 27 : Popper_42
- Track 28 : Elesar_38

- Track 29 : AllBusiness_40
- Track 30 : MrSmee_43
- Track 31 : Skitty_38, Pitbull_42
- Track 32 : Hum25_44
- Track 33 : Merpity_43
- Track 34 : MoRicky_22, Smilerella_21
- Track 35 : Fishburne_32, Atcoo_32, Venti_32, Willsammy_31, Langerak_32, Majeke_32, Etoile_32, Necropolis_32, Donovan_32, StevieRay_32, Kari_32, FirstPlacePfu_32, Arib1_32, Juniormint_32, GaloreK_32, Bunnies_32, Thespis_32, Mangethe_32, Zilizebeth_32, Phegasus_32
- Track 36 : Polkaroo_32, Chubbello_32, Brusacoram_32, Bartholomew_31, Bhagsy_32, KilKor_32, Dynamo_32, Phalm_32, PeanutPie_32, BronnyJr_32, Shipwreck_34, HUHilltop_32, GreaseLightnin_32, Pygmy_34, Camster_32, Vidya_32, Gavriela_32, Glaske_32, Jebeks_33, Bogie_34, Techage_32, Megiddo_32, Ksquared_32, Malithi_32, Sonah_32, CactusJack_32, StressBall_32, Phineas_32, Jung_31
- Track 37 : BigNuz_35
- Track 38 : Nazo_36
- Track 39 : Phayonce_34
- Track 40 : Purky_39
- Track 41 : Webster2_50, Luke_50, LilHazelNut_50, Evanesce_49, Hadrien_50, Amymech_50, Gancho_49, Kinbote_50, Ubuntu_50, BloominB_50, Forge_48, Ein37_50, Amochick_50, Daegal_52, DeepSoil15_50
- Track 42 : NovoPizza_51
- Track 43 : OBUpride_50
- Track 44 : Barebow_24

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

The start number called the most often in the published annotations is 39, it was called in 39 of the 132 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arby_22, Arielagos_19, Azathoth_22, Blair_22, CGermain_22, Chestnut_22, Copper_22, Courtney3_22, Dewayne_22, Elkhorn_22, Guntur_22, Hunnie_22, Inspire2_22, Kels_19, KylieMac_23, Laila_24, Link_22, Lore_22, LouisXIV_22, Maggie_22, Mariposa_22, Massimo_22, Moloch_22, Muttie_22, Prospero_22, Ronnie_22, Sandman_22, Saphira_23, SerialPhiller_19, Seume_22, Sourignavong_23, StewieGriff_22, Stratus_22, Swenson_22, Taj14_22, TinoCrisci_22, Toulouse_21, TymAbreu_22, Ximeno_19, Yank_22,

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

- Decurro_22, ElectricPheel_23, Eyoseyas_19, FirePit_19, Jessica_23, StrawberryLem_19,

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

- AllBusiness_40, Amochick_50, Amymech_50, Arib1_32, Atcoo_32, BackstagePass_50, Barebow_24, Bartholomew_31, Bhagsy_32, BigNuz_35, BloominB_50, Bogie_34, Bowser_41, BronnyJr_32, Brusacoram_32, Bunker_39, Bunnies_32, CactusJack_32, Camster_32, Chubbello_32, Daegal_52,

DeepSoil15_50, Donovan_32, Dori_80, Dynamo_32, Ein37_50, Elesar_38, Etoile_32, Evanesce_49, Eyes_39, FirstPlacePfu_32, Fishburne_32, Forge_48, GaloreK_32, Gancho_49, Gavriela_32, Glaske_32, GreaseLightnin_32, Guinevere_44, HUHilltop_32, Hadrien_50, Halloween_39, Hum25_44, Ichang_41, Jebeks_33, Julie_41, Jung_31, Juniormint_32, Kari_32, KilKor_32, Kinbote_50, Ksquared_32, Langerak_32, LilHazelNut_50, Luke_50, MagicMan_41, Majeke_32, Malithi_32, Mangethe_32, Mao1_82, Megiddo_32, Merpity_43, MoRicky_22, MrSmee_43, Nazo_36, Necropolis_32, NovoPizza_51, OBUpride_50, Obliviate_39, PeanutPie_32, Petra_40, Phalm_32, Phayonce_34, Phegasus_32, Phineas_32, Phinky_18, Pitbull_42, Polkaroo_32, Popper_42, Purky_39, Pygmy_34, QuinnAvery_44, SFuller_92, SPB78_44, Schism_46, Schnabeltier_41, Shipwreck_34, Skitty_38, Smilerella_21, Sonah_32, Spooks_12, StevieRay_32, StressBall_32, Success_12, Techage_32, Thespis_32, Ubuntu_50, UmaThurman_37, Venti_32, Vidya_32, Vinye_24, Webster2_50, Willsammy_31, ZAYM_43, Zaheer_44, Zarbodnamra_42, Zilizabeth_32,

Summary by start number:

Start 30:

- Found in 2 of 153 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dori_80 (AD), Mao1_82 (AD),

Start 38:

- Found in 5 of 153 (3.3%) of genes in pham
- Manual Annotations of this start: 2 of 132
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Elesar_38 (FF), Popper_42 (FF),

Start 39:

- Found in 46 of 153 (30.1%) of genes in pham
- Manual Annotations of this start: 39 of 132
- Called 87.0% of time when present
- Phage (with cluster) where this start called: Arby_22 (AN), Arielagos_19 (AN), Azathoth_22 (AN), Blair_22 (AN), CGermain_22 (AN), Chestnut_22 (AN), Copper_22 (AN), Courtney3_22 (AN), Dewayne_22 (AN), Elkhorn_22 (AN), Guntur_22 (AN), Hunnie_22 (AN), Inspire2_22 (AN), Kels_19 (AN), KylieMac_23 (AN), Laila_24 (AN), Link_22 (AN), Lore_22 (AN), LouisXIV_22 (AN), Maggie_22 (AN), Mariposa_22 (AN), Massimo_22 (AN), Moloch_22 (AN), Muttie_22 (AN), Prospero_22 (AN), Ronnie_22 (AN), Sandman_22 (AN), Saphira_23 (AN), SerialPhiller_19 (AN), Seume_22 (AN), Sourignavong_23 (AN), StewieGriff_22 (AN), Stratus_22 (AN), Swenson_22 (AN), Taj14_22 (AN), TinoCrisci_22 (AN), Toulouse_21 (AN), TymAbreu_22 (AN), Ximeno_19 (AN), Yank_22 (AN),

Start 42:

- Found in 1 of 153 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SPB78_44 (BA),

Start 43:

- Found in 1 of 153 (0.7%) of genes in pham

- Manual Annotations of this start: 1 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: UmaThurman_37 (CV),

Start 44:

- Found in 10 of 153 (6.5%) of genes in pham
- Manual Annotations of this start: 10 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Guinevere_44 (FF), Halloween_39 (FF), Chiang_41 (FF), Julie_41 (FF), Obliviate_39 (CV), Petra_40 (CV), QuinnAvery_44 (FF), Schism_46 (FF), Zaheer_44 (FF), Zarbodnamra_42 (CV),

Start 45:

- Found in 51 of 153 (33.3%) of genes in pham
- Manual Annotations of this start: 20 of 132
- Called 41.2% of time when present
- Phage (with cluster) where this start called: Arib1_32 (P1), Atcoo_32 (P1), BigNuz_35 (P4), Bunnies_32 (P1), Donovan_32 (P1), Etoile_32 (P1), FirstPlacePfu_32 (P1), Fishburne_32 (P1), GaloreK_32 (P1), Juniormint_32 (P1), Kari_32 (P1), Langerak_32 (P1), Majeke_32 (P1), Mangethe_32 (P1), Necropolis_32 (P1), Phegasus_32 (P1), StevieRay_32 (P1), Thespis_32 (P1), Venti_32 (P1), Willsammy_31 (P1), Zilizebeth_32 (P1),

Start 46:

- Found in 1 of 153 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NovoPizza_51 (Q),

Start 48:

- Found in 18 of 153 (11.8%) of genes in pham
- Manual Annotations of this start: 15 of 132
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Amochick_50 (Q), Amymech_50 (Q), BloominB_50 (Q), Daegal_52 (Q), DeepSoil15_50 (Q), Ein37_50 (Q), Evanesce_49 (Q), Forge_48 (Q), Gancho_49 (Q), Hadrien_50 (Q), Kinbote_50 (Q), LilHazelNut_50 (Q), Luke_50 (Q), OBUpride_50 (Q), Ubuntu_50 (Q), Webster2_50 (Q),

Start 49:

- Found in 55 of 153 (35.9%) of genes in pham
- Manual Annotations of this start: 26 of 132
- Called 61.8% of time when present
- Phage (with cluster) where this start called: Bartholomew_31 (P1), Bhagsy_32 (P1), Bogie_34 (P1), BronnyJr_32 (P1), Brusacoram_32 (P1), Bunker_39 (DB), CactusJack_32 (P1), Camster_32 (P1), Chubbello_32 (P1), Dynamo_32 (P1), Gavriela_32 (P1), Glaske_32 (P1), GreaseLightnin_32 (P1), HUHilltop_32 (P1), Jebeks_33 (P1), Jung_31 (P1), KilKor_32 (P1), Ksquared_32 (P1), Malithi_32 (P1), Megiddo_32 (P1), MoRicky_22 (GH), Nazo_36 (P4), PeanutPie_32 (P1), Phalm_32 (P1), Phineas_32 (P1), Polkaroo_32 (P1), Pygmy_34 (P1), Shipwreck_34 (P1), Smilerella_21 (GH), Sonah_32 (P1), StressBall_32 (P1), Techage_32 (P1), Vidya_32 (P1), ZAYM_43 (DB),

Start 50:

- Found in 2 of 153 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phayonce_34 (P5), Purky_39 (P6),

Start 51:

- Found in 1 of 153 (0.7%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SFuller_92 (CF),

Start 52:

- Found in 47 of 153 (30.7%) of genes in pham
- Manual Annotations of this start: 2 of 132
- Called 14.9% of time when present
- Phage (with cluster) where this start called: Decurro_22 (AN), ElectricPheel_23 (AN), Eyoseyas_19 (AN), FirePit_19 (AN), Jessica_23 (AN), StrawberryLem_19 (AN), Vinye_24 (AN),

Start 53:

- Found in 5 of 153 (3.3%) of genes in pham
- Manual Annotations of this start: 4 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BackstagePass_50 (DB), Bowser_41 (DB), Eyes_39 (DB), MagicMan_41 (DB), Schnabeltier_41 (DB),

Start 54:

- Found in 2 of 153 (1.3%) of genes in pham
- Manual Annotations of this start: 2 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phinky_18 (EG), Spooks_12 (BT),

Start 55:

- Found in 3 of 153 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 132
- Called 33.3% of time when present
- Phage (with cluster) where this start called: AllBusiness_40 (FF),

Start 56:

- Found in 1 of 153 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Success_12 (BT),

Start 57:

- Found in 5 of 153 (3.3%) of genes in pham
- Manual Annotations of this start: 4 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25_44 (FQ), Merpity_43 (FQ), MrSmee_43 (FQ), Pitbull_42 (FQ), Skitty_38 (FQ),

Start 64:

- Found in 1 of 153 (0.7%) of genes in pham

- Manual Annotations of this start: 1 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow_24 (singleton),

Summary by clusters:

There are 17 clusters represented in this pham: FQ, singleton, P1, P6, AD, P4, P5, EG, DB, CF, AN, BT, Q, FF, BA, CV, GH,

Info for manual annotations of cluster AD:

- Start number 30 was manually annotated 2 times for cluster AD.

Info for manual annotations of cluster AN:

- Start number 39 was manually annotated 39 times for cluster AN.
- Start number 52 was manually annotated 2 times for cluster AN.

Info for manual annotations of cluster BT:

- Start number 54 was manually annotated 1 time for cluster BT.
- Start number 56 was manually annotated 1 time for cluster BT.

Info for manual annotations of cluster CV:

- Start number 43 was manually annotated 1 time for cluster CV.
- Start number 44 was manually annotated 3 times for cluster CV.

Info for manual annotations of cluster DB:

- Start number 49 was manually annotated 1 time for cluster DB.
- Start number 53 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster EG:

- Start number 54 was manually annotated 1 time for cluster EG.

Info for manual annotations of cluster FF:

- Start number 38 was manually annotated 2 times for cluster FF.
- Start number 44 was manually annotated 7 times for cluster FF.
- Start number 55 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FQ:

- Start number 57 was manually annotated 4 times for cluster FQ.

Info for manual annotations of cluster P1:

- Start number 45 was manually annotated 19 times for cluster P1.
- Start number 49 was manually annotated 24 times for cluster P1.

Info for manual annotations of cluster P4:

- Start number 45 was manually annotated 1 time for cluster P4.
- Start number 49 was manually annotated 1 time for cluster P4.

Info for manual annotations of cluster P5:

- Start number 50 was manually annotated 1 time for cluster P5.

Info for manual annotations of cluster P6:

- Start number 50 was manually annotated 1 time for cluster P6.

Info for manual annotations of cluster Q:

- Start number 48 was manually annotated 15 times for cluster Q.

Gene Information:

Gene: AllBusiness_40 Start: 31222, Stop: 31440, Start Num: 55

Candidate Starts for AllBusiness_40:

(Start: 38 @31186 has 2 MA's), (Start: 55 @31222 has 1 MA's),

Gene: Amochick_50 Start: 36955, Stop: 37152, Start Num: 48

Candidate Starts for Amochick_50:

(Start: 48 @36955 has 15 MA's), (66, 37018),

Gene: Amymech_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Amymech_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Arby_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Arby_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Arib1_32 Start: 27470, Stop: 27715, Start Num: 45

Candidate Starts for Arib1_32:

(36, 27452), (Start: 45 @27470 has 20 MA's), (Start: 49 @27482 has 26 MA's),

Gene: Arielagos_19 Start: 13063, Stop: 13281, Start Num: 39

Candidate Starts for Arielagos_19:

(Start: 39 @13063 has 39 MA's), (Start: 52 @13090 has 2 MA's), (69, 13159),

Gene: Atcoo_32 Start: 27951, Stop: 28196, Start Num: 45

Candidate Starts for Atcoo_32:

(36, 27933), (Start: 45 @27951 has 20 MA's), (Start: 49 @27963 has 26 MA's),

Gene: Azathoth_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Azathoth_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: BackstagePass_50 Start: 34306, Stop: 34112, Start Num: 53

Candidate Starts for BackstagePass_50:

(47, 34321), (Start: 53 @34306 has 4 MA's), (63, 34267), (74, 34222),

Gene: Barebow_24 Start: 17257, Stop: 17445, Start Num: 64

Candidate Starts for Barebow_24:

(8, 16966), (10, 16990), (40, 17185), (Start: 64 @17257 has 1 MA's), (73, 17302),

Gene: Bartholomew_31 Start: 27476, Stop: 27709, Start Num: 49

Candidate Starts for Bartholomew_31:

(36, 27446), (Start: 45 @27464 has 20 MA's), (Start: 49 @27476 has 26 MA's),

Gene: Bhagsy_32 Start: 27472, Stop: 27705, Start Num: 49

Candidate Starts for Bhagsy_32:

(36, 27442), (Start: 45 @27460 has 20 MA's), (Start: 49 @27472 has 26 MA's),

Gene: BigNuz_35 Start: 29592, Stop: 29837, Start Num: 45

Candidate Starts for BigNuz_35:

(36, 29574), (41, 29586), (Start: 45 @29592 has 20 MA's), (Start: 49 @29604 has 26 MA's),

Gene: Blair_22 Start: 13883, Stop: 14116, Start Num: 39

Candidate Starts for Blair_22:

(Start: 39 @13883 has 39 MA's), (Start: 52 @13910 has 2 MA's), (65, 13964), (67, 13970), (70, 13991), (83, 14078),

Gene: BloominB_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for BloominB_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Bogie_34 Start: 29259, Stop: 29492, Start Num: 49

Candidate Starts for Bogie_34:

(36, 29229), (Start: 45 @29247 has 20 MA's), (Start: 49 @29259 has 26 MA's),

Gene: Bowser_41 Start: 32656, Stop: 32847, Start Num: 53

Candidate Starts for Bowser_41:

(47, 32641), (Start: 53 @32656 has 4 MA's), (74, 32740), (76, 32755), (82, 32809),

Gene: BronnyJr_32 Start: 27973, Stop: 28206, Start Num: 49

Candidate Starts for BronnyJr_32:

(36, 27943), (Start: 45 @27961 has 20 MA's), (Start: 49 @27973 has 26 MA's),

Gene: Brusacoram_32 Start: 27469, Stop: 27702, Start Num: 49

Candidate Starts for Brusacoram_32:

(36, 27439), (Start: 45 @27457 has 20 MA's), (Start: 49 @27469 has 26 MA's),

Gene: Bunker_39 Start: 31881, Stop: 32090, Start Num: 49

Candidate Starts for Bunker_39:

(36, 31854), (Start: 49 @31881 has 26 MA's), (84, 32055),

Gene: Bunnies_32 Start: 27478, Stop: 27723, Start Num: 45

Candidate Starts for Bunnies_32:

(36, 27460), (Start: 45 @27478 has 20 MA's), (Start: 49 @27490 has 26 MA's),

Gene: CGermain_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for CGermain_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: CactusJack_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for CactusJack_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Camster_32 Start: 27506, Stop: 27739, Start Num: 49

Candidate Starts for Camster_32:

(36, 27476), (Start: 45 @27494 has 20 MA's), (Start: 49 @27506 has 26 MA's),

Gene: Chestnut_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Chestnut_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Chubbello_32 Start: 27475, Stop: 27708, Start Num: 49

Candidate Starts for Chubbello_32:

(36, 27445), (Start: 45 @27463 has 20 MA's), (Start: 49 @27475 has 26 MA's),

Gene: Copper_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Copper_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Courtney3_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Courtney3_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Daegal_52 Start: 37533, Stop: 37730, Start Num: 48

Candidate Starts for Daegal_52:

(Start: 48 @37533 has 15 MA's), (66, 37596),

Gene: Decurro_22 Start: 13881, Stop: 14087, Start Num: 52

Candidate Starts for Decurro_22:

(Start: 39 @13854 has 39 MA's), (Start: 52 @13881 has 2 MA's), (70, 13962), (83, 14049), (87, 14076),

Gene: DeepSoil15_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for DeepSoil15_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Dewayne_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Dewayne_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Donovan_32 Start: 27486, Stop: 27731, Start Num: 45

Candidate Starts for Donovan_32:

(36, 27468), (Start: 45 @27486 has 20 MA's), (Start: 49 @27498 has 26 MA's),

Gene: Dori_80 Start: 57490, Stop: 57729, Start Num: 30

Candidate Starts for Dori_80:

(Start: 30 @57490 has 2 MA's), (37, 57523), (80, 57673),

Gene: Dynamo_32 Start: 27887, Stop: 28120, Start Num: 49

Candidate Starts for Dynamo_32:

(36, 27857), (Start: 45 @27875 has 20 MA's), (Start: 49 @27887 has 26 MA's),

Gene: Ein37_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Ein37_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: ElectricPheel_23 Start: 13954, Stop: 14160, Start Num: 52

Candidate Starts for ElectricPheel_23:

(Start: 39 @13927 has 39 MA's), (Start: 52 @13954 has 2 MA's), (70, 14035), (83, 14122), (87, 14149),

Gene: Elesar_38 Start: 30965, Stop: 31219, Start Num: 38

Candidate Starts for Elesar_38:

(31, 30932), (36, 30956), (Start: 38 @30965 has 2 MA's), (Start: 55 @31001 has 1 MA's),

Gene: Elkhorn_22 Start: 13883, Stop: 14116, Start Num: 39

Candidate Starts for Elkhorn_22:

(Start: 39 @13883 has 39 MA's), (Start: 52 @13910 has 2 MA's), (65, 13964), (67, 13970), (70, 13991), (83, 14078),

Gene: Etoile_32 Start: 27464, Stop: 27709, Start Num: 45

Candidate Starts for Etoile_32:

(36, 27446), (Start: 45 @27464 has 20 MA's), (Start: 49 @27476 has 26 MA's),

Gene: Evanesce_49 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Evanesce_49:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Eyes_39 Start: 32432, Stop: 32626, Start Num: 53

Candidate Starts for Eyes_39:

(47, 32417), (Start: 53 @32432 has 4 MA's), (74, 32516),

Gene: Eyoseyas_19 Start: 13090, Stop: 13281, Start Num: 52

Candidate Starts for Eyoseyas_19:

(Start: 39 @13063 has 39 MA's), (Start: 52 @13090 has 2 MA's), (69, 13159),

Gene: FirePit_19 Start: 13103, Stop: 13294, Start Num: 52

Candidate Starts for FirePit_19:

(Start: 39 @13076 has 39 MA's), (Start: 52 @13103 has 2 MA's), (69, 13172),

Gene: FirstPlacePfu_32 Start: 27496, Stop: 27741, Start Num: 45

Candidate Starts for FirstPlacePfu_32:

(36, 27478), (Start: 45 @27496 has 20 MA's), (Start: 49 @27508 has 26 MA's),

Gene: Fishburne_32 Start: 27464, Stop: 27709, Start Num: 45

Candidate Starts for Fishburne_32:

(36, 27446), (Start: 45 @27464 has 20 MA's), (Start: 49 @27476 has 26 MA's),

Gene: Forge_48 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Forge_48:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: GaloreK_32 Start: 27460, Stop: 27705, Start Num: 45

Candidate Starts for GaloreK_32:

(36, 27442), (Start: 45 @27460 has 20 MA's), (Start: 49 @27472 has 26 MA's),

Gene: Gancho_49 Start: 36672, Stop: 36869, Start Num: 48

Candidate Starts for Gancho_49:

(Start: 48 @36672 has 15 MA's), (66, 36735),

Gene: Gavriela_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for Gavriela_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Glaske_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for Glaske_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: GreaseLightnin_32 Start: 27725, Stop: 27958, Start Num: 49

Candidate Starts for GreaseLightnin_32:

(36, 27695), (Start: 45 @27713 has 20 MA's), (Start: 49 @27725 has 26 MA's),

Gene: Guinevere_44 Start: 30166, Stop: 30381, Start Num: 44

Candidate Starts for Guinevere_44:

(Start: 44 @30166 has 10 MA's),

Gene: Guntur_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Guntur_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: HUHilltop_32 Start: 27509, Stop: 27742, Start Num: 49

Candidate Starts for HUHilltop_32:

(36, 27479), (Start: 45 @27497 has 20 MA's), (Start: 49 @27509 has 26 MA's),

Gene: Hadrien_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Hadrien_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Halloweekend_39 Start: 29574, Stop: 29789, Start Num: 44

Candidate Starts for Halloweekend_39:

(Start: 44 @29574 has 10 MA's),

Gene: Hum25_44 Start: 27639, Stop: 27827, Start Num: 57

Candidate Starts for Hum25_44:

(Start: 57 @27639 has 4 MA's),

Gene: Hunnie_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Hunnie_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Ichiang_41 Start: 29593, Stop: 29808, Start Num: 44

Candidate Starts for Ichiang_41:

(Start: 44 @29593 has 10 MA's),

Gene: Inspire2_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Inspire2_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Jebeks_33 Start: 27461, Stop: 27694, Start Num: 49

Candidate Starts for Jebeks_33:

(36, 27431), (Start: 45 @27449 has 20 MA's), (Start: 49 @27461 has 26 MA's),

Gene: Jessica_23 Start: 13913, Stop: 14119, Start Num: 52

Candidate Starts for Jessica_23:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Julie_41 Start: 30591, Stop: 30806, Start Num: 44

Candidate Starts for Julie_41:

(Start: 44 @30591 has 10 MA's), (58, 30624), (62, 30636), (67, 30657),

Gene: Jung_31 Start: 27440, Stop: 27673, Start Num: 49

Candidate Starts for Jung_31:

(36, 27410), (Start: 45 @27428 has 20 MA's), (Start: 49 @27440 has 26 MA's),

Gene: Juniormint_32 Start: 27500, Stop: 27745, Start Num: 45

Candidate Starts for Juniormint_32:

(36, 27482), (Start: 45 @27500 has 20 MA's), (Start: 49 @27512 has 26 MA's),

Gene: Kari_32 Start: 27461, Stop: 27706, Start Num: 45

Candidate Starts for Kari_32:

(36, 27443), (Start: 45 @27461 has 20 MA's), (Start: 49 @27473 has 26 MA's),

Gene: Kels_19 Start: 13001, Stop: 13219, Start Num: 39

Candidate Starts for Kels_19:

(Start: 39 @13001 has 39 MA's), (Start: 52 @13028 has 2 MA's), (68, 13091), (86, 13202),

Gene: KilKor_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for KilKor_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Kinbote_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Kinbote_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Ksquared_32 Start: 27490, Stop: 27723, Start Num: 49

Candidate Starts for Ksquared_32:

(36, 27460), (Start: 45 @27478 has 20 MA's), (Start: 49 @27490 has 26 MA's),

Gene: KylieMac_23 Start: 13870, Stop: 14103, Start Num: 39

Candidate Starts for KylieMac_23:

(Start: 39 @13870 has 39 MA's), (Start: 52 @13897 has 2 MA's), (65, 13951), (67, 13957), (70, 13978), (83, 14065),

Gene: Laila_24 Start: 13883, Stop: 14116, Start Num: 39

Candidate Starts for Laila_24:

(Start: 39 @13883 has 39 MA's), (Start: 52 @13910 has 2 MA's), (65, 13964), (67, 13970), (70, 13991), (83, 14078),

Gene: Langerak_32 Start: 27480, Stop: 27725, Start Num: 45

Candidate Starts for Langerak_32:

(36, 27462), (Start: 45 @27480 has 20 MA's), (Start: 49 @27492 has 26 MA's),

Gene: LilHazelNut_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for LilHazelNut_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Link_22 Start: 13851, Stop: 14084, Start Num: 39

Candidate Starts for Link_22:

(Start: 39 @13851 has 39 MA's), (Start: 52 @13878 has 2 MA's), (70, 13959), (83, 14046), (87, 14073),

Gene: Lore_22 Start: 13883, Stop: 14116, Start Num: 39

Candidate Starts for Lore_22:

(Start: 39 @13883 has 39 MA's), (Start: 52 @13910 has 2 MA's), (65, 13964), (67, 13970), (70, 13991), (83, 14078),

Gene: LouisXIV_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for LouisXIV_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Luke_50 Start: 36904, Stop: 37101, Start Num: 48

Candidate Starts for Luke_50:

(Start: 48 @36904 has 15 MA's), (66, 36967),

Gene: Maggie_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Maggie_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: MagicMan_41 Start: 32979, Stop: 33173, Start Num: 53

Candidate Starts for MagicMan_41:

(47, 32964), (Start: 53 @32979 has 4 MA's), (74, 33063),

Gene: Majeke_32 Start: 27502, Stop: 27747, Start Num: 45

Candidate Starts for Majeke_32:

(36, 27484), (Start: 45 @27502 has 20 MA's), (Start: 49 @27514 has 26 MA's),

Gene: Malithi_32 Start: 27399, Stop: 27632, Start Num: 49

Candidate Starts for Malithi_32:

(36, 27369), (Start: 45 @27387 has 20 MA's), (Start: 49 @27399 has 26 MA's),

Gene: Mangethe_32 Start: 27502, Stop: 27747, Start Num: 45

Candidate Starts for Mangethe_32:

(36, 27484), (Start: 45 @27502 has 20 MA's), (Start: 49 @27514 has 26 MA's),

Gene: Mao1_82 Start: 56379, Stop: 56618, Start Num: 30

Candidate Starts for Mao1_82:

(Start: 30 @56379 has 2 MA's), (37, 56412), (80, 56562),

Gene: Mariposa_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Mariposa_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Massimo_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Massimo_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Megiddo_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for Megiddo_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Merpity_43 Start: 28039, Stop: 28227, Start Num: 57

Candidate Starts for Merpity_43:

(17, 27859), (29, 27949), (Start: 57 @28039 has 4 MA's),

Gene: MoRicky_22 Start: 14364, Stop: 14573, Start Num: 49

Candidate Starts for MoRicky_22:

(32, 14313), (Start: 38 @14343 has 2 MA's), (Start: 49 @14364 has 26 MA's), (68, 14439),

Gene: Moloch_22 Start: 13960, Stop: 14193, Start Num: 39

Candidate Starts for Moloch_22:

(Start: 39 @13960 has 39 MA's), (Start: 52 @13987 has 2 MA's), (70, 14068), (83, 14155), (87, 14182),

Gene: MrSmee_43 Start: 28469, Stop: 28657, Start Num: 57

Candidate Starts for MrSmee_43:

(Start: 57 @28469 has 4 MA's),

Gene: Muttlie_22 Start: 13854, Stop: 14087, Start Num: 39

Candidate Starts for Muttlie_22:

(Start: 39 @13854 has 39 MA's), (Start: 52 @13881 has 2 MA's), (70, 13962), (83, 14049), (87, 14076),

Gene: Nazo_36 Start: 29606, Stop: 29839, Start Num: 49

Candidate Starts for Nazo_36:

(36, 29576), (41, 29588), (Start: 45 @29594 has 20 MA's), (Start: 49 @29606 has 26 MA's),

Gene: Necropolis_32 Start: 27461, Stop: 27706, Start Num: 45

Candidate Starts for Necropolis_32:

(36, 27443), (Start: 45 @27461 has 20 MA's), (Start: 49 @27473 has 26 MA's),

Gene: NovoPizza_51 Start: 37432, Stop: 37641, Start Num: 46

Candidate Starts for NovoPizza_51:

(2, 37132), (3, 37138), (5, 37159), (7, 37204), (9, 37207), (11, 37234), (14, 37267), (15, 37273), (16, 37279), (18, 37285), (19, 37309), (20, 37318), (22, 37333), (23, 37339), (25, 37348), (26, 37351), (35, 37411), (46, 37432), (Start: 48 @37441 has 15 MA's), (59, 37477), (74, 37540), (76, 37555),

Gene: OBUpride_50 Start: 36945, Stop: 37142, Start Num: 48

Candidate Starts for OBUpride_50:

(Start: 48 @36945 has 15 MA's), (66, 37008), (68, 37017), (70, 37032),

Gene: Obliviate_39 Start: 31330, Stop: 31524, Start Num: 44

Candidate Starts for Obliviate_39:

(Start: 44 @31330 has 10 MA's),

Gene: PeanutPie_32 Start: 27472, Stop: 27705, Start Num: 49

Candidate Starts for PeanutPie_32:

(36, 27442), (Start: 45 @27460 has 20 MA's), (Start: 49 @27472 has 26 MA's),

Gene: Petra_40 Start: 31689, Stop: 31883, Start Num: 44

Candidate Starts for Petra_40:

(Start: 44 @31689 has 10 MA's),

Gene: Phalm_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for Phalm_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Phayonce_34 Start: 29517, Stop: 29735, Start Num: 50

Candidate Starts for Phayonce_34:

(36, 29487), (Start: 50 @29517 has 2 MA's), (76, 29625),

Gene: Phegasus_32 Start: 27469, Stop: 27714, Start Num: 45

Candidate Starts for Phegasus_32:

(36, 27451), (Start: 45 @27469 has 20 MA's), (Start: 49 @27481 has 26 MA's),

Gene: Phineas_32 Start: 27847, Stop: 28080, Start Num: 49

Candidate Starts for Phineas_32:

(36, 27817), (Start: 45 @27835 has 20 MA's), (Start: 49 @27847 has 26 MA's),

Gene: Phinky_18 Start: 5034, Stop: 4834, Start Num: 54

Candidate Starts for Phinky_18:

(1, 5412), (4, 5343), (6, 5325), (13, 5235), (24, 5151), (27, 5139), (28, 5130), (37, 5076), (Start: 54 @5034 has 2 MA's), (67, 4980), (72, 4950), (81, 4878),

Gene: Pitbull_42 Start: 26865, Stop: 27053, Start Num: 57

Candidate Starts for Pitbull_42:

(Start: 57 @26865 has 4 MA's),

Gene: Polkaroo_32 Start: 27490, Stop: 27723, Start Num: 49

Candidate Starts for Polkaroo_32:

(36, 27460), (Start: 45 @27478 has 20 MA's), (Start: 49 @27490 has 26 MA's),

Gene: Popper_42 Start: 30120, Stop: 30374, Start Num: 38

Candidate Starts for Popper_42:

(Start: 38 @30120 has 2 MA's), (Start: 55 @30156 has 1 MA's), (70, 30225), (78, 30264), (85, 30315),

Gene: Prospero_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Prospero_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Purky_39 Start: 30247, Stop: 30462, Start Num: 50

Candidate Starts for Purky_39:

(36, 30217), (Start: 50 @30247 has 2 MA's), (76, 30355),

Gene: Pygmy_34 Start: 29315, Stop: 29548, Start Num: 49

Candidate Starts for Pygmy_34:

(36, 29285), (Start: 45 @29303 has 20 MA's), (Start: 49 @29315 has 26 MA's),

Gene: QuinnAvery_44 Start: 31024, Stop: 31239, Start Num: 44

Candidate Starts for QuinnAvery_44:

(Start: 44 @31024 has 10 MA's),

Gene: Ronnie_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for Ronnie_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: SFuller_92 Start: 52330, Stop: 52539, Start Num: 51

Candidate Starts for SFuller_92:

(34, 52285), (51, 52330), (61, 52366), (81, 52486), (85, 52498), (88, 52528),

Gene: SPB78_44 Start: 32113, Stop: 32337, Start Num: 42

Candidate Starts for SPB78_44:

(42, 32113), (75, 32239),

Gene: Sandman_22 Start: 13960, Stop: 14193, Start Num: 39

Candidate Starts for Sandman_22:

(Start: 39 @13960 has 39 MA's), (Start: 52 @13987 has 2 MA's), (70, 14068), (83, 14155), (87, 14182),

Gene: Saphira_23 Start: 13885, Stop: 14118, Start Num: 39

Candidate Starts for Saphira_23:

(Start: 39 @13885 has 39 MA's), (Start: 52 @13912 has 2 MA's), (65, 13966), (70, 13993), (83, 14080),

Gene: Schism_46 Start: 30955, Stop: 31170, Start Num: 44

Candidate Starts for Schism_46:

(Start: 44 @30955 has 10 MA's),

Gene: Schnabeltier_41 Start: 32611, Stop: 32805, Start Num: 53

Candidate Starts for Schnabeltier_41:

(Start: 53 @32611 has 4 MA's), (63, 32650), (74, 32695),

Gene: SerialPhiller_19 Start: 13063, Stop: 13281, Start Num: 39

Candidate Starts for SerialPhiller_19:

(Start: 39 @13063 has 39 MA's), (Start: 52 @13090 has 2 MA's), (69, 13159),

Gene: Seume_22 Start: 13649, Stop: 13882, Start Num: 39

Candidate Starts for Seume_22:

(Start: 39 @13649 has 39 MA's), (Start: 52 @13676 has 2 MA's), (70, 13757), (83, 13844), (87, 13871),

Gene: Shipwreck_34 Start: 29290, Stop: 29523, Start Num: 49

Candidate Starts for Shipwreck_34:

(36, 29260), (Start: 45 @29278 has 20 MA's), (Start: 49 @29290 has 26 MA's),

Gene: Skitty_38 Start: 26378, Stop: 26566, Start Num: 57

Candidate Starts for Skitty_38:

(Start: 57 @26378 has 4 MA's),

Gene: Smilerella_21 Start: 14454, Stop: 14663, Start Num: 49

Candidate Starts for Smilerella_21:

(32, 14403), (Start: 38 @14433 has 2 MA's), (Start: 49 @14454 has 26 MA's), (68, 14529),

Gene: Sonah_32 Start: 27462, Stop: 27695, Start Num: 49

Candidate Starts for Sonah_32:

(36, 27432), (Start: 45 @27450 has 20 MA's), (Start: 49 @27462 has 26 MA's),

Gene: Sourignavong_23 Start: 13955, Stop: 14188, Start Num: 39

Candidate Starts for Sourignavong_23:

(Start: 39 @13955 has 39 MA's), (Start: 52 @13982 has 2 MA's), (70, 14063), (83, 14150), (87, 14177),

Gene: Spooks_12 Start: 9089, Stop: 8904, Start Num: 54

Candidate Starts for Spooks_12:

(Start: 54 @9089 has 2 MA's), (60, 9062), (68, 9029), (79, 8972),

Gene: StevieRay_32 Start: 27429, Stop: 27674, Start Num: 45

Candidate Starts for StevieRay_32:

(36, 27411), (Start: 45 @27429 has 20 MA's), (Start: 49 @27441 has 26 MA's),

Gene: StewieGriff_22 Start: 13883, Stop: 14116, Start Num: 39

Candidate Starts for StewieGriff_22:

(Start: 39 @13883 has 39 MA's), (Start: 52 @13910 has 2 MA's), (65, 13964), (67, 13970), (70, 13991), (83, 14078),

Gene: Stratus_22 Start: 13960, Stop: 14193, Start Num: 39

Candidate Starts for Stratus_22:

(Start: 39 @13960 has 39 MA's), (Start: 52 @13987 has 2 MA's), (70, 14068), (83, 14155), (87, 14182),

Gene: StrawberryLem_19 Start: 13015, Stop: 13206, Start Num: 52

Candidate Starts for StrawberryLem_19:

(Start: 39 @12988 has 39 MA's), (Start: 52 @13015 has 2 MA's), (69, 13084),

Gene: StressBall_32 Start: 27733, Stop: 27966, Start Num: 49

Candidate Starts for StressBall_32:

(36, 27703), (Start: 45 @27721 has 20 MA's), (Start: 49 @27733 has 26 MA's),

Gene: Success_12 Start: 8329, Stop: 8147, Start Num: 56

Candidate Starts for Success_12:

(Start: 56 @8329 has 1 MA's), (66, 8281), (67, 8278), (71, 8254), (77, 8221),

Gene: Swenson_22 Start: 14007, Stop: 14240, Start Num: 39

Candidate Starts for Swenson_22:

(Start: 39 @14007 has 39 MA's), (Start: 52 @14034 has 2 MA's), (65, 14088), (70, 14115), (83, 14202),

Gene: Taj14_22 Start: 13882, Stop: 14115, Start Num: 39

Candidate Starts for Taj14_22:

(Start: 39 @13882 has 39 MA's), (Start: 52 @13909 has 2 MA's), (65, 13963), (70, 13990), (83, 14077),

Gene: Techage_32 Start: 27499, Stop: 27732, Start Num: 49

Candidate Starts for Techage_32:

(36, 27469), (Start: 45 @27487 has 20 MA's), (Start: 49 @27499 has 26 MA's),

Gene: Thespis_32 Start: 27457, Stop: 27702, Start Num: 45

Candidate Starts for Thespis_32:

(36, 27439), (Start: 45 @27457 has 20 MA's), (Start: 49 @27469 has 26 MA's),

Gene: TinoCrisci_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for TinoCrisci_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Toulouse_21 Start: 13649, Stop: 13882, Start Num: 39

Candidate Starts for Toulouse_21:

(Start: 39 @13649 has 39 MA's), (Start: 52 @13676 has 2 MA's), (70, 13757), (83, 13844), (87, 13871),

Gene: TymAbreu_22 Start: 13886, Stop: 14119, Start Num: 39

Candidate Starts for TymAbreu_22:

(Start: 39 @13886 has 39 MA's), (Start: 52 @13913 has 2 MA's), (70, 13994), (83, 14081), (87, 14108),

Gene: Ubuntu_50 Start: 36949, Stop: 37146, Start Num: 48

Candidate Starts for Ubuntu_50:

(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: UmaThurman_37 Start: 31748, Stop: 31954, Start Num: 43
Candidate Starts for UmaThurman_37:
(12, 31565), (21, 31640), (26, 31670), (33, 31712), (Start: 43 @31748 has 1 MA's), (Start: 48 @31760 has 15 MA's), (67, 31826), (84, 31934), (85, 31937),

Gene: Venti_32 Start: 27464, Stop: 27709, Start Num: 45
Candidate Starts for Venti_32:
(36, 27446), (Start: 45 @27464 has 20 MA's), (Start: 49 @27476 has 26 MA's),

Gene: Vidya_32 Start: 27509, Stop: 27742, Start Num: 49
Candidate Starts for Vidya_32:
(36, 27479), (Start: 45 @27497 has 20 MA's), (Start: 49 @27509 has 26 MA's),

Gene: Vinye_24 Start: 14391, Stop: 14597, Start Num: 52
Candidate Starts for Vinye_24:
(Start: 52 @14391 has 2 MA's), (83, 14562),

Gene: Webster2_50 Start: 36949, Stop: 37146, Start Num: 48
Candidate Starts for Webster2_50:
(Start: 48 @36949 has 15 MA's), (66, 37012),

Gene: Willsammy_31 Start: 27204, Stop: 27449, Start Num: 45
Candidate Starts for Willsammy_31:
(36, 27186), (Start: 45 @27204 has 20 MA's), (Start: 49 @27216 has 26 MA's),

Gene: Ximeno_19 Start: 13076, Stop: 13294, Start Num: 39
Candidate Starts for Ximeno_19:
(Start: 39 @13076 has 39 MA's), (Start: 52 @13103 has 2 MA's), (69, 13172),

Gene: Yank_22 Start: 13854, Stop: 14087, Start Num: 39
Candidate Starts for Yank_22:
(Start: 39 @13854 has 39 MA's), (Start: 52 @13881 has 2 MA's), (70, 13962), (83, 14049), (87, 14076),

Gene: ZAYM_43 Start: 32247, Stop: 32456, Start Num: 49
Candidate Starts for ZAYM_43:
(36, 32220), (Start: 49 @32247 has 26 MA's),

Gene: Zaheer_44 Start: 31390, Stop: 31605, Start Num: 44
Candidate Starts for Zaheer_44:
(Start: 44 @31390 has 10 MA's),

Gene: Zarbodnamra_42 Start: 32451, Stop: 32645, Start Num: 44
Candidate Starts for Zarbodnamra_42:
(Start: 44 @32451 has 10 MA's),

Gene: Zilizebeth_32 Start: 27496, Stop: 27741, Start Num: 45
Candidate Starts for Zilizebeth_32:
(36, 27478), (Start: 45 @27496 has 20 MA's), (Start: 49 @27508 has 26 MA's),