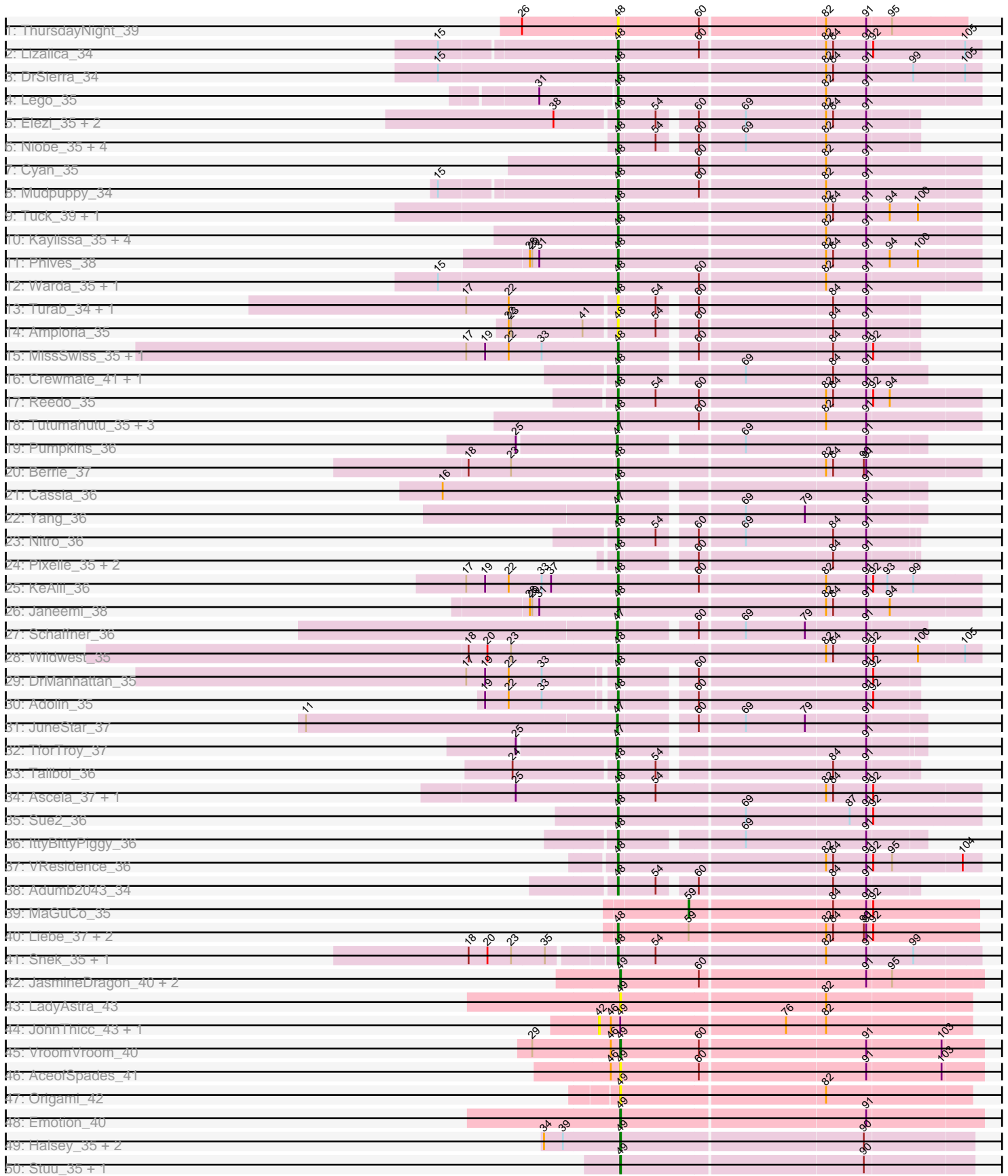
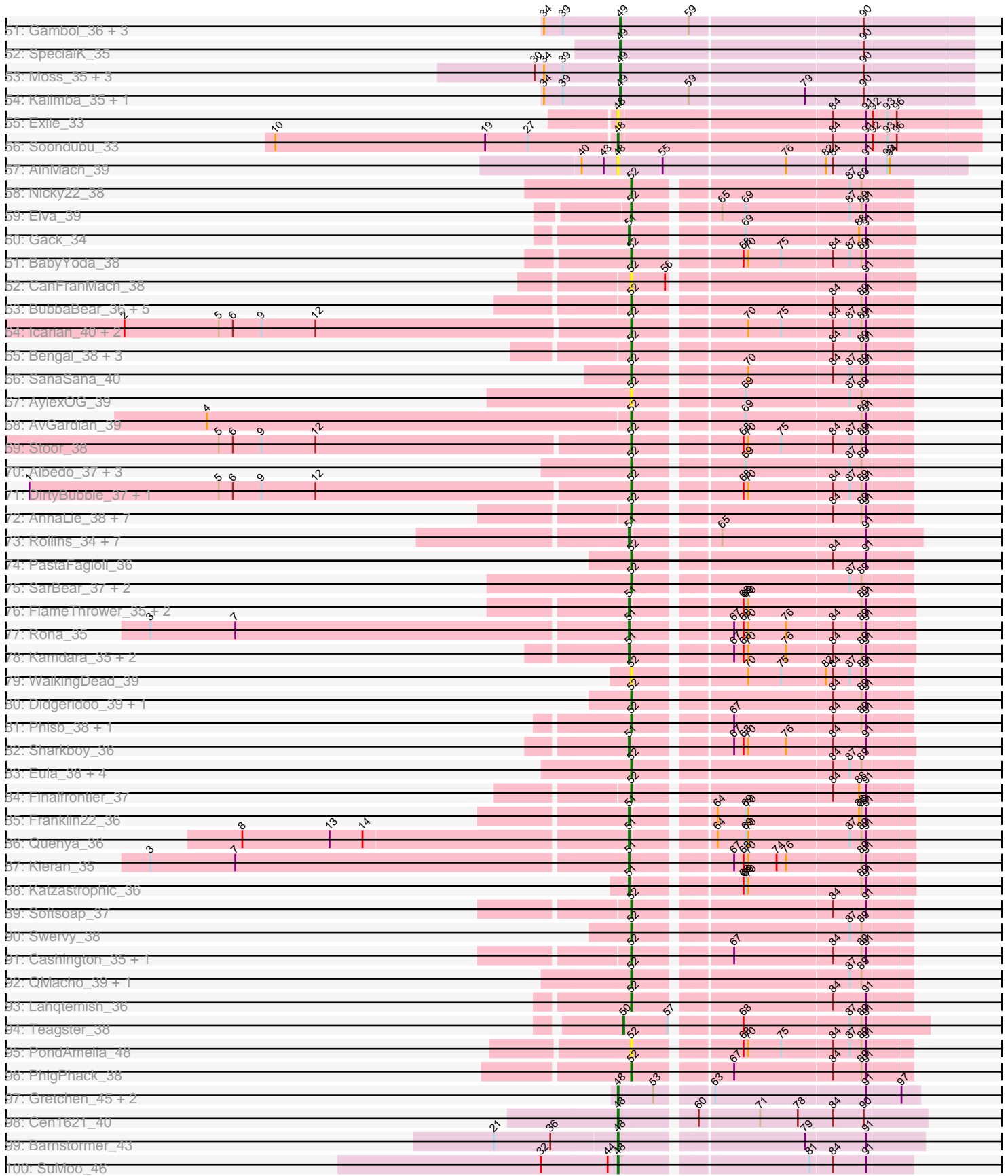


Pham 292418



Pham 292418



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 292418 Report

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

Pham number 292418 has 197 members, 36 are drafts.

Phages represented in each track:

- Track 1 : ThursdayNight_39
- Track 2 : Lizalica_34
- Track 3 : DrSierra_34
- Track 4 : Lego_35
- Track 5 : Elezi_35, London_35, Subaru_36
- Track 6 : Niobe_35, Eraser_35, Skelbel_36, Jstan_37, Asa16_35
- Track 7 : Cyan_35
- Track 8 : Mudpuppy_34
- Track 9 : Tuck_39, Community_38
- Track 10 : Kaylissa_35, JohnDoe_35, AGrandiflora_36, Powerpuff_37, YesChef_35
- Track 11 : Phives_38
- Track 12 : Warda_35, Tbone_34
- Track 13 : Turab_34, AEgle_34
- Track 14 : Amploria_35
- Track 15 : MissSwiss_35, PandaPo_35
- Track 16 : Crewmate_41, ObiToo_40
- Track 17 : Reedo_35
- Track 18 : Tutumahutu_35, Joemato_35, Simpson_37, Flutur_35
- Track 19 : Pumpkins_36
- Track 20 : Berrie_37
- Track 21 : Cassia_36
- Track 22 : Yang_36
- Track 23 : Nitro_36
- Track 24 : Pixelle_35, Amyev_35, Tian_35
- Track 25 : KeAlii_36
- Track 26 : Janeemi_38
- Track 27 : Schaffner_36
- Track 28 : Wildwest_35
- Track 29 : DrManhattan_35
- Track 30 : Adolin_35
- Track 31 : JuneStar_37
- Track 32 : TforTroy_37
- Track 33 : Tallboi_36
- Track 34 : Ascela_37, Iter_37
- Track 35 : Sue2_36
- Track 36 : IttyBittyPiggy_36
- Track 37 : VResidence_36

- Track 38 : Adumb2043_34
- Track 39 : MaGuCo_35
- Track 40 : Liebe_37, IUFootball_37, Maureen_37
- Track 41 : Snek_35, Tweety19_35
- Track 42 : JasmineDragon_40, ShakeltOph_40, MiniMommy_41
- Track 43 : LadyAstra_43
- Track 44 : JohnThicc_43, FiveHead_44
- Track 45 : VroomVroom_40
- Track 46 : AceofSpades_41
- Track 47 : Origami_42
- Track 48 : Emotion_40
- Track 49 : Halsey_35, Ashes_35, Beaupre_35
- Track 50 : Stuu_35, Mysterium_35
- Track 51 : Gambol_36, Sooty_35, Sabourin_35, Cappuccino_35
- Track 52 : SpecialK_35
- Track 53 : Moss_35, Giorgio_35, RockScotty_35, Gumpizza_35
- Track 54 : Kalimba_35, Donkey_35
- Track 55 : Exile_33
- Track 56 : Soondubu_33
- Track 57 : AinMach_39
- Track 58 : Nicky22_38
- Track 59 : Elva_39
- Track 60 : Gack_34
- Track 61 : BabyYoda_38
- Track 62 : CanFranMach_38
- Track 63 : BubbaBear_36, Abigail_36, SansAfet_38, Milomuff_37, LimaBean_36, Solea_38
- Track 64 : Icarian_40, Akino08_38, Loviatar_38
- Track 65 : Bengal_38, Albright_35, Doobus_36, Avacadoman_36
- Track 66 : SanaSana_40
- Track 67 : AylexOG_39
- Track 68 : AvGardian_39
- Track 69 : Stoor_38
- Track 70 : Albedo_37, Kenzers_37, Lynlen_37, SirBeanington_37
- Track 71 : DirtyBubble_37, Stromboli_38
- Track 72 : AnnaLie_38, Burritobowl_37, CroZenni_37, BelmontSKP_38, Arroyo_38, Johnathan_36, DickRichards_36, IndyLu_36
- Track 73 : Rollins_34, Coltrane_34, Clayda5_35, Brahms_34, Armstrong_34, Vitas_34, Skylord_34, Bernstein_34
- Track 74 : PastaFagioli_36
- Track 75 : SarBear_37, Slay_38, Lilo27_38
- Track 76 : FlameThrower_35, Celaena_35, Bachaco_35
- Track 77 : Rona_35
- Track 78 : Kamdara_35, ChiliPepper_34, Dismas_35
- Track 79 : WalkingDead_39
- Track 80 : Didgeridoo_39, Kate33_37
- Track 81 : Phisb_38, TukTuk_38
- Track 82 : Sharkboy_36
- Track 83 : Eula_38, Jabb_38, CupcakePrincess_38, Jovita_38, MsUbiquitous_38
- Track 84 : Finalfrontier_37
- Track 85 : Franklin22_36
- Track 86 : Quenya_36
- Track 87 : Kieran_35

- Track 88 : Katzastrophic_36
- Track 89 : Softsoap_37
- Track 90 : Swervy_38
- Track 91 : Cashington_35, BabyDaisy_36
- Track 92 : QMacho_39, Pecas_37
- Track 93 : Lahqtemish_36
- Track 94 : Teagster_38
- Track 95 : PondAmelia_48
- Track 96 : PhigPhack_38
- Track 97 : Gretchen_45, Percival_46, SuperHands_45
- Track 98 : Cen1621_40
- Track 99 : Barnstormer_43
- Track 100 : SuMoo_46
- Track 101 : Mabodamaca_44
- Track 102 : UtzChips_43
- Track 103 : GardenState_44
- Track 104 : Forester_73
- Track 105 : IAmGroot_44
- Track 106 : Honk_41
- Track 107 : Floof_46
- Track 108 : Caron_47
- Track 109 : CallinAllBarbz_37
- Track 110 : GrimEater_33, Jankie_35
- Track 111 : Elfy_36
- Track 112 : BaileyBlu_37
- Track 113 : LisoBros_37
- Track 114 : Samy_60
- Track 115 : Attoomi_32

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

The start number called the most often in the published annotations is 48, it was called in 60 of the 161 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_34, AGrandiflora_36, Adolin_35, Adumb2043_34, AinMach_39, Amploria_35, Amyev_35, Asa16_35, Ascela_37, BaileyBlu_37, Barnstormer_43, Berrie_37, CallinAllBarbz_37, Caron_47, Cassia_36, Cen1621_40, Community_38, Crewmate_41, Cyan_35, DrManhattan_35, DrSierra_34, Elezi_35, Elfy_36, Eraser_35, Exile_33, Floof_46, Flutur_35, Forester_73, GardenState_44, Gretchen_45, GrimEater_33, Honk_41, IAmGroot_44, IUFootball_37, Iter_37, IttyBittyPiggy_36, Janeemi_38, Jankie_35, Joemato_35, JohnDoe_35, Jstan_37, Kaylissa_35, KeAlii_36, Lego_35, Liebe_37, LisoBros_37, Lizalica_34, London_35, Mabodamaca_44, Maureen_37, MissSwiss_35, Mudpuppy_34, Niobe_35, Nitro_36, ObiToo_40, PandaPo_35, Percival_46, Phives_38, Pixelle_35, Powerpuff_37, Reedo_35, Simpson_37, Skelbel_36, Snek_35, Soondubu_33, SuMoo_46, Subaru_36, Sue2_36, SuperHands_45, Tallboi_36, Tbone_34, ThursdayNight_39, Tian_35, Tuck_39, Turab_34, Tutumahutu_35, Tweety19_35, UtzChips_43, VResidence_36, Warda_35, Wildwest_35, YesChef_35,

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

-

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

- Abigail_36, AceofSpades_41, Akino08_38, Albedo_37, Albright_35, AnnaLie_38, Armstrong_34, Arroyo_38, Ashes_35, Attoomi_32, AvGardian_39, Avocadoman_36, AylexOG_39, BabyDaisy_36, BabyYoda_38, Bachaco_35, Beaupre_35, BelmontSKP_38, Bengal_38, Bernstein_34, Brahms_34, BubbaBear_36, Burritobowl_37, CanFranMach_38, Cappuccino_35, Cashington_35, Celaena_35, ChiliPepper_34, Clayda5_35, Coltrane_34, CroZenni_37, CupcakePrincess_38, DickRichards_36, Didgeridoo_39, DirtyBubble_37, Dismas_35, Donkey_35, Doobus_36, Elva_39, Emotion_40, Eula_38, Finalfrontier_37, FiveHead_44, FlameThrower_35, Franklin22_36, Gack_34, Gambol_36, Giorgio_35, Gumpizza_35, Halsey_35, Icarian_40, IndyLu_36, Jabb_38, JasmineDragon_40, JohnThicc_43, Johnathan_36, Jovita_38, JuneStar_37, Kalimba_35, Kamdara_35, Kate33_37, Katzastrophic_36, Kenzers_37, Kieran_35, LadyAstra_43, Lahqtemish_36, Lilo27_38, LimaBean_36, Loviatar_38, Lynlen_37, MaGuCo_35, Milomuff_37, MiniMommy_41, Moss_35, MsUbiquitous_38, Mysterium_35, Nicky22_38, Origami_42, PastaFagioli_36, Pecas_37, PhigPhack_38, Phisb_38, PondAmelia_48, Pumpkins_36, QMacho_39, Quenya_36, RockScotty_35, Rollins_34, Rona_35, Sabourin_35, Samy_60, SanaSana_40, SansAfet_38, SarBear_37, Schaffner_36, ShakeltOph_40, Sharkboy_36, SirBeannington_37, Skylord_34, Slay_38, Softsoap_37, Solea_38, Sooty_35, SpecialK_35, Stoor_38, Stromboli_38, Stuu_35, Swervy_38, Teagster_38, TforTroy_37, TukTuk_38, Vitas_34, VroomVroom_40, WalkingDead_39, Yang_36,

Summary by start number:

Start 42:

- Found in 2 of 197 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: FiveHead_44 (AZ4), JohnThicc_43 (AZ4),

Start 46:

- Found in 5 of 197 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 161
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Samy_60 (singleton),

Start 47:

- Found in 5 of 197 (2.5%) of genes in pham
- Manual Annotations of this start: 5 of 161
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JuneStar_37 (AZ1), Pumpkins_36 (AZ1), Schaffner_36 (AZ1), TforTroy_37 (AZ1), Yang_36 (AZ1),

Start 48:

- Found in 82 of 197 (41.6%) of genes in pham
- Manual Annotations of this start: 60 of 161
- Called 100.0% of time when present

- Phage (with cluster) where this start called: AEgle_34 (AZ1), AGrandiflora_36 (AZ1), Adolin_35 (AZ1), Adumb2043_34 (AZ1), AinMach_39 (AZ7), Amploria_35 (AZ1), Amyev_35 (AZ1), Asa16_35 (AZ1), Ascela_37 (AZ1), BaileyBlu_37 (FP), Barnstormer_43 (EH), Berrie_37 (AZ1), CallinAllBarbz_37 (FP), Caron_47 (EH), Cassia_36 (AZ1), Cen1621_40 (EH), Community_38 (AZ1), Crewmate_41 (AZ1), Cyan_35 (AZ1), DrManhattan_35 (AZ1), DrSierra_34 (AZ1), Elezi_35 (AZ1), Elfy_36 (FP), Eraser_35 (AZ1), Exile_33 (AZ6), Floof_46 (EH), Flutur_35 (AZ), Forester_73 (EH), GardenState_44 (EH), Gretchen_45 (EH), GrimEater_33 (FP), Honk_41 (EH), IAmGroot_44 (EH), IUFootball_37 (AZ2), Iter_37 (AZ1), IttyBittyPiggy_36 (AZ1), Janeemi_38 (AZ1), Jankie_35 (FP), Joemato_35 (AZ1), JohnDoe_35 (AZ1), Jstan_37 (AZ1), Kaylissa_35 (AZ1), KeAlii_36 (AZ1), Lego_35 (AZ1), Liebe_37 (AZ2), LisoBros_37 (UNK), Lizalica_34 (AZ1), London_35 (AZ1), Mabodamaca_44 (EH), Maureen_37 (AZ2), MissSwiss_35 (AZ1), Mudpuppy_34 (AZ1), Niobe_35 (AZ1), Nitro_36 (AZ1), ObiToo_40 (AZ1), PandaPo_35 (AZ1), Percival_46 (EH), Phives_38 (AZ1), Pixelle_35 (AZ1), Powerpuff_37 (AZ1), Reedo_35 (AZ1), Simpson_37 (AZ1), Skelbel_36 (AZ1), Snek_35 (AZ3), Soondubu_33 (AZ6), SuMoo_46 (EH), Subaru_36 (AZ1), Sue2_36 (AZ1), SuperHands_45 (EH), Tallboi_36 (AZ1), Tbone_34 (AZ1), ThursdayNight_39 (AZ), Tian_35 (AZ1), Tuck_39 (AZ1), Turab_34 (AZ1), Tutumahutu_35 (AZ1), Tweety19_35 (AZ3), UtzChips_43 (EH), VResidence_36 (AZ1), Warda_35 (AZ1), Wildwest_35 (AZ1), YesChef_35 (AZ1),

Start 49:

- Found in 26 of 197 (13.2%) of genes in pham
- Manual Annotations of this start: 21 of 161
- Called 92.3% of time when present
- Phage (with cluster) where this start called: AceofSpades_41 (AZ4), Ashes_35 (AZ5), Beaupre_35 (AZ5), Cappuccino_35 (AZ5), Donkey_35 (AZ5), Emotion_40 (AZ4), Gambol_36 (AZ5), Giorgio_35 (AZ5), Gumpizza_35 (AZ5), Halsey_35 (AZ5), JasmineDragon_40 (AZ4), Kalimba_35 (AZ5), LadyAstra_43 (AZ4), MiniMommy_41 (AZ4), Moss_35 (AZ5), Mysterium_35 (AZ5), Origami_42 (AZ4), RockScotty_35 (AZ5), Sabourin_35 (AZ5), ShakeltOph_40 (AZ4), Sooty_35 (AZ5), SpecialK_35 (AZ5), Stuu_35 (AZ5), VroomVroom_40 (AZ4),

Start 50:

- Found in 1 of 197 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 161
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Teagster_38 (EB),

Start 51:

- Found in 21 of 197 (10.7%) of genes in pham
- Manual Annotations of this start: 20 of 161
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Armstrong_34 (EB), Bachaco_35 (EB), Bernstein_34 (EB), Brahms_34 (EB), Celaena_35 (EB), ChiliPepper_34 (EB), Clayda5_35 (EB), Coltrane_34 (EB), Dismas_35 (EB), FlameThrower_35 (EB), Franklin22_36 (EB), Gack_34 (EB), Kamdara_35 (EB), Katzastrophic_36 (EB), Kieran_35 (EB), Quenya_36 (EB), Rollins_34 (EB), Rona_35 (EB), Sharkboy_36 (EB), Skylord_34 (EB), Vitas_34 (EB),

Start 52:

- Found in 59 of 197 (29.9%) of genes in pham
- Manual Annotations of this start: 51 of 161

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_36 (EB), Akino08_38 (EB), Albedo_37 (EB), Albright_35 (EB), AnnaLie_38 (EB), Arroyo_38 (EB), AvGardian_39 (EB), Avocadoman_36 (EB), AylexOG_39 (EB), BabyDaisy_36 (EB), BabyYoda_38 (EB), BelmontSKP_38 (EB), Bengal_38 (EB), BubbaBear_36 (EB), Burritobowl_37 (EB), CanFranMach_38 (EB), Cashington_35 (EB), CroZenni_37 (EB), CupcakePrincess_38 (EB), DickRichards_36 (EB), Didgeridoo_39 (EB), DirtyBubble_37 (EB), Doobus_36 (EB), Elva_39 (EB), Eula_38 (EB), Finalfrontier_37 (EB), Icarian_40 (EB), IndyLu_36 (EB), Jabb_38 (EB), Johnathan_36 (EB), Jovita_38 (EB), Kate33_37 (EB), Kenzers_37 (EB), Lahqtemish_36 (EB), Lilo27_38 (EB), LimaBean_36 (EB), Loviatar_38 (EB), Lynlen_37 (EB), Milomuff_37 (EB), MsUbiquitous_38 (EB), Nicky22_38 (EB), PastaFagioli_36 (EB), Pecas_37 (EB), PhigPhack_38 (EB), Phisb_38 (EB), PondAmelia_48 (EB), QMacho_39 (EB), SanaSana_40 (EB), SansAfet_38 (EB), SarBear_37 (EB), SirBeannington_37 (EB), Slay_38 (EB), Softsoap_37 (EB), Solea_38 (EB), Stoor_38 (EB), Stromboli_38 (EB), Swervy_38 (EB), TukTuk_38 (EB), WalkingDead_39 (EB),

Start 59:

- Found in 10 of 197 (5.1%) of genes in pham
- Manual Annotations of this start: 1 of 161
- Called 10.0% of time when present
- Phage (with cluster) where this start called: MaGuCo_35 (AZ2),

Start 61:

- Found in 1 of 197 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 161
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attoomi_32 (singleton),

Summary by clusters:

There are 13 clusters represented in this pham: FP, singleton, AZ, EH, UNK, EB, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AZ1:

- Start number 47 was manually annotated 5 times for cluster AZ1.
- Start number 48 was manually annotated 41 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 48 was manually annotated 2 times for cluster AZ2.
- Start number 59 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 48 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 49 was manually annotated 5 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 49 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:

- Start number 48 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster EB:

- Start number 50 was manually annotated 1 time for cluster EB.
- Start number 51 was manually annotated 20 times for cluster EB.
- Start number 52 was manually annotated 51 times for cluster EB.

Info for manual annotations of cluster EH:

- Start number 48 was manually annotated 12 times for cluster EH.

Info for manual annotations of cluster FP:

- Start number 48 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AEgle_34 Start: 25272, Stop: 25622, Start Num: 48

Candidate Starts for AEgle_34:

(17, 25092), (22, 25146), (Start: 48 @25272 has 60 MA's), (54, 25317), (60, 25356), (84, 25518), (91, 25560),

Gene: AGrandiflora_36 Start: 25133, Stop: 25576, Start Num: 48

Candidate Starts for AGrandiflora_36:

(Start: 48 @25133 has 60 MA's), (82, 25385), (91, 25436),

Gene: Abigail_36 Start: 25222, Stop: 25548, Start Num: 52

Candidate Starts for Abigail_36:

(Start: 52 @25222 has 51 MA's), (84, 25453), (89, 25489), (91, 25495),

Gene: AceofSpades_41 Start: 27016, Stop: 27462, Start Num: 49

Candidate Starts for AceofSpades_41:

(Start: 46 @27004 has 1 MA's), (Start: 49 @27016 has 21 MA's), (60, 27115), (91, 27319), (103, 27412),

Gene: Adolin_35 Start: 24126, Stop: 24476, Start Num: 48

Candidate Starts for Adolin_35:

(19, 23973), (22, 24003), (33, 24045), (Start: 48 @24126 has 60 MA's), (60, 24210), (91, 24414), (92, 24420),

Gene: Adumb2043_34 Start: 25291, Stop: 25641, Start Num: 48

Candidate Starts for Adumb2043_34:

(Start: 48 @25291 has 60 MA's), (54, 25336), (60, 25375), (84, 25537), (91, 25579),

Gene: AinMach_39 Start: 26488, Stop: 26916, Start Num: 48

Candidate Starts for AinMach_39:

(40, 26443), (43, 26470), (Start: 48 @26488 has 60 MA's), (55, 26545), (76, 26695), (82, 26743), (84, 26752), (91, 26794), (93, 26818), (94, 26821),

Gene: Akino08_38 Start: 27649, Stop: 27975, Start Num: 52

Candidate Starts for Akino08_38:

(2, 27016), (5, 27136), (6, 27154), (9, 27190), (12, 27259), (Start: 52 @27649 has 51 MA's), (70, 27775), (75, 27817), (84, 27880), (87, 27901), (89, 27916), (91, 27922),

Gene: Albedo_37 Start: 25772, Stop: 26098, Start Num: 52
Candidate Starts for Albedo_37:
(Start: 52 @25772 has 51 MA's), (69, 25895), (87, 26024), (89, 26039),

Gene: Albright_35 Start: 24924, Stop: 25250, Start Num: 52
Candidate Starts for Albright_35:
(Start: 52 @24924 has 51 MA's), (84, 25155), (89, 25191), (91, 25197),

Gene: Amploria_35 Start: 25474, Stop: 25824, Start Num: 48
Candidate Starts for Amploria_35:
(22, 25345), (23, 25348), (41, 25438), (Start: 48 @25474 has 60 MA's), (54, 25519), (60, 25558), (84, 25720), (91, 25762),

Gene: Amyev_35 Start: 26817, Stop: 27164, Start Num: 48
Candidate Starts for Amyev_35:
(Start: 48 @26817 has 60 MA's), (60, 26901), (84, 27063), (91, 27105),

Gene: AnnaLie_38 Start: 26045, Stop: 26371, Start Num: 52
Candidate Starts for AnnaLie_38:
(Start: 52 @26045 has 51 MA's), (84, 26276), (89, 26312), (91, 26318),

Gene: Armstrong_34 Start: 23647, Stop: 23988, Start Num: 51
Candidate Starts for Armstrong_34:
(Start: 51 @23647 has 20 MA's), (65, 23740), (91, 23920),

Gene: Arroyo_38 Start: 26083, Stop: 26409, Start Num: 52
Candidate Starts for Arroyo_38:
(Start: 52 @26083 has 51 MA's), (84, 26314), (89, 26350), (91, 26356),

Gene: Asa16_35 Start: 26861, Stop: 27211, Start Num: 48
Candidate Starts for Asa16_35:
(Start: 48 @26861 has 60 MA's), (54, 26906), (60, 26945), (69, 26999), (82, 27098), (91, 27149),

Gene: Ascela_37 Start: 25854, Stop: 26297, Start Num: 48
Candidate Starts for Ascela_37:
(25, 25725), (Start: 48 @25854 has 60 MA's), (54, 25899), (82, 26106), (84, 26115), (91, 26157), (92, 26163),

Gene: Ashes_35 Start: 24212, Stop: 24646, Start Num: 49
Candidate Starts for Ashes_35:
(34, 24116), (39, 24140), (Start: 49 @24212 has 21 MA's), (90, 24512),

Gene: Attoomi_32 Start: 23857, Stop: 24264, Start Num: 61
Candidate Starts for Attoomi_32:
(Start: 61 @23857 has 1 MA's), (72, 23938), (77, 23971), (81, 23995), (85, 24028), (101, 24148), (102, 24154), (103, 24157), (106, 24193), (107, 24196), (108, 24199),

Gene: AvGardian_39 Start: 26215, Stop: 26541, Start Num: 52
Candidate Starts for AvGardian_39:
(4, 25681), (Start: 52 @26215 has 51 MA's), (69, 26338), (89, 26482), (91, 26488),

Gene: Avocadoman_36 Start: 25161, Stop: 25487, Start Num: 52
Candidate Starts for Avocadoman_36:
(Start: 52 @25161 has 51 MA's), (84, 25392), (89, 25428), (91, 25434),

Gene: AylexOG_39 Start: 26118, Stop: 26444, Start Num: 52
Candidate Starts for AylexOG_39:
(Start: 52 @26118 has 51 MA's), (69, 26241), (87, 26370), (89, 26385),

Gene: BabyDaisy_36 Start: 25684, Stop: 26010, Start Num: 52
Candidate Starts for BabyDaisy_36:
(Start: 52 @25684 has 51 MA's), (67, 25792), (84, 25915), (89, 25951), (91, 25957),

Gene: BabyYoda_38 Start: 26829, Stop: 27155, Start Num: 52
Candidate Starts for BabyYoda_38:
(Start: 52 @26829 has 51 MA's), (68, 26949), (70, 26955), (75, 26997), (84, 27060), (87, 27081), (89, 27096), (91, 27102),

Gene: Bachaco_35 Start: 26844, Stop: 27173, Start Num: 51
Candidate Starts for Bachaco_35:
(Start: 51 @26844 has 20 MA's), (68, 26964), (69, 26967), (70, 26970), (89, 27111), (91, 27117),

Gene: BaileyBlu_37 Start: 25414, Stop: 25836, Start Num: 48
Candidate Starts for BaileyBlu_37:
(19, 25246), (27, 25300), (Start: 48 @25414 has 60 MA's), (54, 25459), (60, 25513), (82, 25666), (83, 25672),

Gene: Barnstormer_43 Start: 27456, Stop: 27818, Start Num: 48
Candidate Starts for Barnstormer_43:
(21, 27303), (36, 27375), (Start: 48 @27456 has 60 MA's), (79, 27672), (91, 27747),

Gene: Beaupre_35 Start: 24213, Stop: 24647, Start Num: 49
Candidate Starts for Beaupre_35:
(34, 24117), (39, 24141), (Start: 49 @24213 has 21 MA's), (90, 24513),

Gene: BelmontSKP_38 Start: 26045, Stop: 26371, Start Num: 52
Candidate Starts for BelmontSKP_38:
(Start: 52 @26045 has 51 MA's), (84, 26276), (89, 26312), (91, 26318),

Gene: Bengal_38 Start: 25673, Stop: 25999, Start Num: 52
Candidate Starts for Bengal_38:
(Start: 52 @25673 has 51 MA's), (84, 25904), (89, 25940), (91, 25946),

Gene: Bernstein_34 Start: 23702, Stop: 24043, Start Num: 51
Candidate Starts for Bernstein_34:
(Start: 51 @23702 has 20 MA's), (65, 23795), (91, 23975),

Gene: Berrie_37 Start: 26747, Stop: 27190, Start Num: 48
Candidate Starts for Berrie_37:
(18, 26564), (23, 26618), (Start: 48 @26747 has 60 MA's), (82, 26999), (84, 27008), (90, 27047), (91, 27050),

Gene: Brahms_34 Start: 23649, Stop: 23990, Start Num: 51

Candidate Starts for Brahms_34:

(Start: 51 @23649 has 20 MA's), (65, 23742), (91, 23922),

Gene: BubbaBear_36 Start: 25617, Stop: 25943, Start Num: 52

Candidate Starts for BubbaBear_36:

(Start: 52 @25617 has 51 MA's), (84, 25848), (89, 25884), (91, 25890),

Gene: Burritobowl_37 Start: 25618, Stop: 25944, Start Num: 52

Candidate Starts for Burritobowl_37:

(Start: 52 @25618 has 51 MA's), (84, 25849), (89, 25885), (91, 25891),

Gene: CallinAllBarbz_37 Start: 25811, Stop: 26263, Start Num: 48

Candidate Starts for CallinAllBarbz_37:

(19, 25643), (27, 25697), (Start: 48 @25811 has 60 MA's), (54, 25856), (58, 25874), (60, 25910), (84, 26072), (91, 26114), (109, 26249),

Gene: CanFranMach_38 Start: 25703, Stop: 26032, Start Num: 52

Candidate Starts for CanFranMach_38:

(Start: 52 @25703 has 51 MA's), (56, 25745), (91, 25976),

Gene: Cappuccino_35 Start: 24079, Stop: 24513, Start Num: 49

Candidate Starts for Cappuccino_35:

(34, 23983), (39, 24007), (Start: 49 @24079 has 21 MA's), (Start: 59 @24166 has 1 MA's), (90, 24379),

Gene: Caron_47 Start: 28859, Stop: 29239, Start Num: 48

Candidate Starts for Caron_47:

(Start: 48 @28859 has 60 MA's), (91, 29150),

Gene: Cashington_35 Start: 24964, Stop: 25290, Start Num: 52

Candidate Starts for Cashington_35:

(Start: 52 @24964 has 51 MA's), (67, 25072), (84, 25195), (89, 25231), (91, 25237),

Gene: Cassia_36 Start: 25737, Stop: 26096, Start Num: 48

Candidate Starts for Cassia_36:

(16, 25515), (Start: 48 @25737 has 60 MA's), (91, 26025),

Gene: Celaena_35 Start: 26594, Stop: 26923, Start Num: 51

Candidate Starts for Celaena_35:

(Start: 51 @26594 has 20 MA's), (68, 26714), (69, 26717), (70, 26720), (89, 26861), (91, 26867),

Gene: Cen1621_40 Start: 25799, Stop: 26167, Start Num: 48

Candidate Starts for Cen1621_40:

(Start: 48 @25799 has 60 MA's), (60, 25886), (71, 25958), (78, 26006), (84, 26051), (90, 26090),

Gene: ChiliPepper_34 Start: 26048, Stop: 26380, Start Num: 51

Candidate Starts for ChiliPepper_34:

(Start: 51 @26048 has 20 MA's), (67, 26159), (68, 26171), (70, 26177), (76, 26225), (84, 26282), (89, 26318), (91, 26324),

Gene: Clayda5_35 Start: 23636, Stop: 23977, Start Num: 51

Candidate Starts for Clayda5_35:

(Start: 51 @23636 has 20 MA's), (65, 23729), (91, 23909),

Gene: Coltrane_34 Start: 23649, Stop: 23990, Start Num: 51

Candidate Starts for Coltrane_34:

(Start: 51 @23649 has 20 MA's), (65, 23742), (91, 23922),

Gene: Community_38 Start: 27474, Stop: 27917, Start Num: 48

Candidate Starts for Community_38:

(Start: 48 @27474 has 60 MA's), (82, 27726), (84, 27735), (91, 27777), (94, 27804), (100, 27840),

Gene: Crewmate_41 Start: 26389, Stop: 26751, Start Num: 48

Candidate Starts for Crewmate_41:

(Start: 48 @26389 has 60 MA's), (69, 26527), (84, 26635), (91, 26677),

Gene: CroZenni_37 Start: 25508, Stop: 25834, Start Num: 52

Candidate Starts for CroZenni_37:

(Start: 52 @25508 has 51 MA's), (84, 25739), (89, 25775), (91, 25781),

Gene: CupcakePrincess_38 Start: 25806, Stop: 26132, Start Num: 52

Candidate Starts for CupcakePrincess_38:

(Start: 52 @25806 has 51 MA's), (84, 26037), (87, 26058), (89, 26073),

Gene: Cyan_35 Start: 25187, Stop: 25630, Start Num: 48

Candidate Starts for Cyan_35:

(Start: 48 @25187 has 60 MA's), (60, 25286), (82, 25439), (91, 25490),

Gene: DickRichards_36 Start: 25947, Stop: 26273, Start Num: 52

Candidate Starts for DickRichards_36:

(Start: 52 @25947 has 51 MA's), (84, 26178), (89, 26214), (91, 26220),

Gene: Didgeridoo_39 Start: 26093, Stop: 26419, Start Num: 52

Candidate Starts for Didgeridoo_39:

(Start: 52 @26093 has 51 MA's), (84, 26324), (89, 26360), (91, 26366),

Gene: DirtyBubble_37 Start: 26477, Stop: 26803, Start Num: 52

Candidate Starts for DirtyBubble_37:

(1, 25724), (5, 25964), (6, 25982), (9, 26018), (12, 26087), (Start: 52 @26477 has 51 MA's), (68, 26597), (70, 26603), (84, 26708), (87, 26729), (89, 26744), (91, 26750),

Gene: Dismas_35 Start: 26219, Stop: 26551, Start Num: 51

Candidate Starts for Dismas_35:

(Start: 51 @26219 has 20 MA's), (67, 26330), (68, 26342), (70, 26348), (76, 26396), (84, 26453), (89, 26489), (91, 26495),

Gene: Donkey_35 Start: 24069, Stop: 24503, Start Num: 49

Candidate Starts for Donkey_35:

(34, 23973), (39, 23997), (Start: 49 @24069 has 21 MA's), (Start: 59 @24156 has 1 MA's), (79, 24297), (90, 24369),

Gene: Doobus_36 Start: 25328, Stop: 25654, Start Num: 52

Candidate Starts for Doobus_36:

(Start: 52 @25328 has 51 MA's), (84, 25559), (89, 25595), (91, 25601),

Gene: DrManhattan_35 Start: 24117, Stop: 24467, Start Num: 48

Candidate Starts for DrManhattan_35:

(17, 23940), (19, 23964), (22, 23994), (33, 24036), (Start: 48 @24117 has 60 MA's), (60, 24201), (91, 24405), (92, 24411),

Gene: DrSierra_34 Start: 24046, Stop: 24489, Start Num: 48

Candidate Starts for DrSierra_34:

(15, 23824), (Start: 48 @24046 has 60 MA's), (82, 24298), (84, 24307), (91, 24349), (99, 24406), (105, 24469),

Gene: Elezi_35 Start: 26877, Stop: 27227, Start Num: 48

Candidate Starts for Elezi_35:

(38, 26808), (Start: 48 @26877 has 60 MA's), (54, 26922), (60, 26961), (69, 27015), (82, 27114), (84, 27123), (91, 27165),

Gene: Elfy_36 Start: 25169, Stop: 25540, Start Num: 48

Candidate Starts for Elfy_36:

(Start: 48 @25169 has 60 MA's), (91, 25457), (92, 25463), (93, 25481), (95, 25487),

Gene: Elva_39 Start: 26539, Stop: 26865, Start Num: 52

Candidate Starts for Elva_39:

(Start: 52 @26539 has 51 MA's), (65, 26632), (69, 26662), (87, 26791), (89, 26806), (91, 26812),

Gene: Emotion_40 Start: 26793, Stop: 27239, Start Num: 49

Candidate Starts for Emotion_40:

(Start: 49 @26793 has 21 MA's), (91, 27096),

Gene: Eraser_35 Start: 26868, Stop: 27218, Start Num: 48

Candidate Starts for Eraser_35:

(Start: 48 @26868 has 60 MA's), (54, 26913), (60, 26952), (69, 27006), (82, 27105), (91, 27156),

Gene: Eula_38 Start: 25719, Stop: 26045, Start Num: 52

Candidate Starts for Eula_38:

(Start: 52 @25719 has 51 MA's), (84, 25950), (87, 25971), (89, 25986),

Gene: Exile_33 Start: 27350, Stop: 27793, Start Num: 48

Candidate Starts for Exile_33:

(Start: 48 @27350 has 60 MA's), (84, 27611), (91, 27653), (92, 27659), (93, 27677), (96, 27689),

Gene: Finalfrontier_37 Start: 26331, Stop: 26657, Start Num: 52

Candidate Starts for Finalfrontier_37:

(Start: 52 @26331 has 51 MA's), (84, 26562), (88, 26595), (91, 26604),

Gene: FiveHead_44 Start: 26853, Stop: 27311, Start Num: 42

Candidate Starts for FiveHead_44:

(42, 26853), (Start: 46 @26868 has 1 MA's), (Start: 49 @26880 has 21 MA's), (76, 27084), (82, 27132),

Gene: FlameThrower_35 Start: 26044, Stop: 26373, Start Num: 51

Candidate Starts for FlameThrower_35:

(Start: 51 @26044 has 20 MA's), (68, 26164), (69, 26167), (70, 26170), (89, 26311), (91, 26317),

Gene: Floof_46 Start: 28537, Stop: 28899, Start Num: 48

Candidate Starts for Floof_46:

(Start: 48 @28537 has 60 MA's), (53, 28582), (73, 28705), (91, 28828),

Gene: Flutur_35 Start: 25445, Stop: 25888, Start Num: 48
Candidate Starts for Flutur_35:
(Start: 48 @25445 has 60 MA's), (60, 25544), (82, 25697), (91, 25748),

Gene: Forester_73 Start: 29475, Stop: 29837, Start Num: 48
Candidate Starts for Forester_73:
(Start: 48 @29475 has 60 MA's), (53, 29520), (63, 29577), (91, 29766),

Gene: Franklin22_36 Start: 24418, Stop: 24747, Start Num: 51
Candidate Starts for Franklin22_36:
(Start: 51 @24418 has 20 MA's), (64, 24505), (69, 24541), (70, 24544), (88, 24682), (89, 24685), (91, 24691),

Gene: Gack_34 Start: 24169, Stop: 24498, Start Num: 51
Candidate Starts for Gack_34:
(Start: 51 @24169 has 20 MA's), (69, 24292), (88, 24433), (91, 24442),

Gene: Gambol_36 Start: 24088, Stop: 24522, Start Num: 49
Candidate Starts for Gambol_36:
(34, 23992), (39, 24016), (Start: 49 @24088 has 21 MA's), (Start: 59 @24175 has 1 MA's), (90, 24388),

Gene: GardenState_44 Start: 27681, Stop: 28043, Start Num: 48
Candidate Starts for GardenState_44:
(Start: 48 @27681 has 60 MA's), (73, 27849), (79, 27897), (91, 27972),

Gene: Giorgio_35 Start: 24196, Stop: 24630, Start Num: 49
Candidate Starts for Giorgio_35:
(30, 24088), (34, 24100), (39, 24124), (Start: 49 @24196 has 21 MA's), (90, 24496),

Gene: Gretchen_45 Start: 29159, Stop: 29515, Start Num: 48
Candidate Starts for Gretchen_45:
(Start: 48 @29159 has 60 MA's), (53, 29204), (63, 29261), (91, 29450), (97, 29492),

Gene: GrimEater_33 Start: 24325, Stop: 24750, Start Num: 48
Candidate Starts for GrimEater_33:
(Start: 48 @24325 has 60 MA's), (54, 24370), (60, 24424), (90, 24625), (92, 24634),

Gene: Gumpizza_35 Start: 24152, Stop: 24586, Start Num: 49
Candidate Starts for Gumpizza_35:
(30, 24044), (34, 24056), (39, 24080), (Start: 49 @24152 has 21 MA's), (90, 24452),

Gene: Halsey_35 Start: 24217, Stop: 24651, Start Num: 49
Candidate Starts for Halsey_35:
(34, 24121), (39, 24145), (Start: 49 @24217 has 21 MA's), (90, 24517),

Gene: Honk_41 Start: 24866, Stop: 25207, Start Num: 48
Candidate Starts for Honk_41:
(45, 24857), (Start: 48 @24866 has 60 MA's), (90, 25157),

Gene: IAmGroot_44 Start: 28148, Stop: 28510, Start Num: 48
Candidate Starts for IAmGroot_44:
(Start: 48 @28148 has 60 MA's), (73, 28316), (79, 28364), (91, 28439),

Gene: IUFootball_37 Start: 26991, Stop: 27434, Start Num: 48

Candidate Starts for IUFootball_37:

(Start: 48 @26991 has 60 MA's), (Start: 59 @27078 has 1 MA's), (82, 27243), (84, 27252), (90, 27291), (91, 27294), (92, 27300),

Gene: Icarian_40 Start: 27112, Stop: 27438, Start Num: 52

Candidate Starts for Icarian_40:

(2, 26479), (5, 26599), (6, 26617), (9, 26653), (12, 26722), (Start: 52 @27112 has 51 MA's), (70, 27238), (75, 27280), (84, 27343), (87, 27364), (89, 27379), (91, 27385),

Gene: IndyLu_36 Start: 25645, Stop: 25971, Start Num: 52

Candidate Starts for IndyLu_36:

(Start: 52 @25645 has 51 MA's), (84, 25876), (89, 25912), (91, 25918),

Gene: Iter_37 Start: 25853, Stop: 26296, Start Num: 48

Candidate Starts for Iter_37:

(25, 25724), (Start: 48 @25853 has 60 MA's), (54, 25898), (82, 26105), (84, 26114), (91, 26156), (92, 26162),

Gene: IttyBittyPiggy_36 Start: 25503, Stop: 25862, Start Num: 48

Candidate Starts for IttyBittyPiggy_36:

(Start: 48 @25503 has 60 MA's), (69, 25641), (91, 25791),

Gene: Jabb_38 Start: 25806, Stop: 26132, Start Num: 52

Candidate Starts for Jabb_38:

(Start: 52 @25806 has 51 MA's), (84, 26037), (87, 26058), (89, 26073),

Gene: Janeemi_38 Start: 27485, Stop: 27928, Start Num: 48

Candidate Starts for Janeemi_38:

(28, 27377), (29, 27380), (31, 27389), (Start: 48 @27485 has 60 MA's), (82, 27737), (84, 27746), (91, 27788), (94, 27815),

Gene: Jankie_35 Start: 24505, Stop: 24930, Start Num: 48

Candidate Starts for Jankie_35:

(Start: 48 @24505 has 60 MA's), (54, 24550), (60, 24604), (90, 24805), (92, 24814),

Gene: JasmineDragon_40 Start: 26737, Stop: 27180, Start Num: 49

Candidate Starts for JasmineDragon_40:

(Start: 49 @26737 has 21 MA's), (60, 26836), (91, 27040), (95, 27070),

Gene: Joemato_35 Start: 25218, Stop: 25661, Start Num: 48

Candidate Starts for Joemato_35:

(Start: 48 @25218 has 60 MA's), (60, 25317), (82, 25470), (91, 25521),

Gene: JohnDoe_35 Start: 25209, Stop: 25652, Start Num: 48

Candidate Starts for JohnDoe_35:

(Start: 48 @25209 has 60 MA's), (82, 25461), (91, 25512),

Gene: JohnThicc_43 Start: 26853, Stop: 27311, Start Num: 42

Candidate Starts for JohnThicc_43:

(42, 26853), (Start: 46 @26868 has 1 MA's), (Start: 49 @26880 has 21 MA's), (76, 27084), (82, 27132),

Gene: Johnathan_36 Start: 25051, Stop: 25377, Start Num: 52

Candidate Starts for Johnathan_36:

(Start: 52 @25051 has 51 MA's), (84, 25282), (89, 25318), (91, 25324),

Gene: Jovita_38 Start: 25821, Stop: 26147, Start Num: 52

Candidate Starts for Jovita_38:

(Start: 52 @25821 has 51 MA's), (84, 26052), (87, 26073), (89, 26088),

Gene: Jstan_37 Start: 26862, Stop: 27212, Start Num: 48

Candidate Starts for Jstan_37:

(Start: 48 @26862 has 60 MA's), (54, 26907), (60, 26946), (69, 27000), (82, 27099), (91, 27150),

Gene: JuneStar_37 Start: 27633, Stop: 27992, Start Num: 47

Candidate Starts for JuneStar_37:

(11, 27243), (Start: 47 @27633 has 5 MA's), (60, 27717), (69, 27771), (79, 27846), (91, 27921),

Gene: Kalimba_35 Start: 24066, Stop: 24500, Start Num: 49

Candidate Starts for Kalimba_35:

(34, 23970), (39, 23994), (Start: 49 @24066 has 21 MA's), (Start: 59 @24153 has 1 MA's), (79, 24294), (90, 24366),

Gene: Kamdara_35 Start: 26224, Stop: 26556, Start Num: 51

Candidate Starts for Kamdara_35:

(Start: 51 @26224 has 20 MA's), (67, 26335), (68, 26347), (70, 26353), (76, 26401), (84, 26458), (89, 26494), (91, 26500),

Gene: Kate33_37 Start: 25417, Stop: 25743, Start Num: 52

Candidate Starts for Kate33_37:

(Start: 52 @25417 has 51 MA's), (84, 25648), (89, 25684), (91, 25690),

Gene: Katzastrophic_36 Start: 26173, Stop: 26502, Start Num: 51

Candidate Starts for Katzastrophic_36:

(Start: 51 @26173 has 20 MA's), (68, 26293), (69, 26296), (70, 26299), (89, 26440), (91, 26446),

Gene: Kaylissa_35 Start: 25154, Stop: 25597, Start Num: 48

Candidate Starts for Kaylissa_35:

(Start: 48 @25154 has 60 MA's), (82, 25406), (91, 25457),

Gene: KeAlii_36 Start: 25807, Stop: 26250, Start Num: 48

Candidate Starts for KeAlii_36:

(17, 25615), (19, 25639), (22, 25669), (33, 25711), (37, 25723), (Start: 48 @25807 has 60 MA's), (60, 25906), (82, 26059), (91, 26110), (92, 26116), (93, 26134), (99, 26167),

Gene: Kenzers_37 Start: 25644, Stop: 25970, Start Num: 52

Candidate Starts for Kenzers_37:

(Start: 52 @25644 has 51 MA's), (69, 25767), (87, 25896), (89, 25911),

Gene: Kieran_35 Start: 26228, Stop: 26560, Start Num: 51

Candidate Starts for Kieran_35:

(3, 25631), (7, 25739), (Start: 51 @26228 has 20 MA's), (67, 26339), (68, 26351), (70, 26357), (74, 26393), (76, 26405), (89, 26498), (91, 26504),

Gene: LadyAstra_43 Start: 26980, Stop: 27411, Start Num: 49

Candidate Starts for LadyAstra_43:

(Start: 49 @26980 has 21 MA's), (82, 27232),

Gene: Lahqtemish_36 Start: 25690, Stop: 26016, Start Num: 52

Candidate Starts for Lahqtemish_36:

(Start: 52 @25690 has 51 MA's), (84, 25921), (91, 25963),

Gene: Lego_35 Start: 25100, Stop: 25543, Start Num: 48

Candidate Starts for Lego_35:

(31, 25007), (Start: 48 @25100 has 60 MA's), (82, 25352), (91, 25403),

Gene: Liebe_37 Start: 26991, Stop: 27434, Start Num: 48

Candidate Starts for Liebe_37:

(Start: 48 @26991 has 60 MA's), (Start: 59 @27078 has 1 MA's), (82, 27243), (84, 27252), (90, 27291), (91, 27294), (92, 27300),

Gene: Lilo27_38 Start: 25629, Stop: 25955, Start Num: 52

Candidate Starts for Lilo27_38:

(Start: 52 @25629 has 51 MA's), (87, 25881), (89, 25896),

Gene: LimaBean_36 Start: 25100, Stop: 25426, Start Num: 52

Candidate Starts for LimaBean_36:

(Start: 52 @25100 has 51 MA's), (84, 25331), (89, 25367), (91, 25373),

Gene: LisoBros_37 Start: 27383, Stop: 27811, Start Num: 48

Candidate Starts for LisoBros_37:

(Start: 48 @27383 has 60 MA's), (54, 27428), (60, 27482), (80, 27614), (84, 27644), (91, 27686), (92, 27692),

Gene: Lizalica_34 Start: 25001, Stop: 25444, Start Num: 48

Candidate Starts for Lizalica_34:

(15, 24788), (Start: 48 @25001 has 60 MA's), (60, 25100), (82, 25253), (84, 25262), (91, 25304), (92, 25310), (105, 25424),

Gene: London_35 Start: 26877, Stop: 27227, Start Num: 48

Candidate Starts for London_35:

(38, 26808), (Start: 48 @26877 has 60 MA's), (54, 26922), (60, 26961), (69, 27015), (82, 27114), (84, 27123), (91, 27165),

Gene: Loviatar_38 Start: 27664, Stop: 27990, Start Num: 52

Candidate Starts for Loviatar_38:

(2, 27031), (5, 27151), (6, 27169), (9, 27205), (12, 27274), (Start: 52 @27664 has 51 MA's), (70, 27790), (75, 27832), (84, 27895), (87, 27916), (89, 27931), (91, 27937),

Gene: Lynlen_37 Start: 25644, Stop: 25970, Start Num: 52

Candidate Starts for Lynlen_37:

(Start: 52 @25644 has 51 MA's), (69, 25767), (87, 25896), (89, 25911),

Gene: MaGuCo_35 Start: 25925, Stop: 26281, Start Num: 59

Candidate Starts for MaGuCo_35:

(Start: 59 @25925 has 1 MA's), (84, 26099), (91, 26141), (92, 26147),

Gene: Mabodamaca_44 Start: 28805, Stop: 29152, Start Num: 48

Candidate Starts for Mabodamaca_44:

(Start: 48 @28805 has 60 MA's), (81, 29027), (84, 29054), (91, 29096),

Gene: Maureen_37 Start: 26991, Stop: 27434, Start Num: 48

Candidate Starts for Maureen_37:

(Start: 48 @26991 has 60 MA's), (Start: 59 @27078 has 1 MA's), (82, 27243), (84, 27252), (90, 27291), (91, 27294), (92, 27300),

Gene: Milomuff_37 Start: 25521, Stop: 25847, Start Num: 52

Candidate Starts for Milomuff_37:

(Start: 52 @25521 has 51 MA's), (84, 25752), (89, 25788), (91, 25794),

Gene: MiniMommy_41 Start: 26738, Stop: 27181, Start Num: 49

Candidate Starts for MiniMommy_41:

(Start: 49 @26738 has 21 MA's), (60, 26837), (91, 27041), (95, 27071),

Gene: MissSwiss_35 Start: 24190, Stop: 24540, Start Num: 48

Candidate Starts for MissSwiss_35:

(17, 23998), (19, 24022), (22, 24052), (33, 24094), (Start: 48 @24190 has 60 MA's), (60, 24274), (84, 24436), (91, 24478), (92, 24484),

Gene: Moss_35 Start: 24158, Stop: 24592, Start Num: 49

Candidate Starts for Moss_35:

(30, 24050), (34, 24062), (39, 24086), (Start: 49 @24158 has 21 MA's), (90, 24458),

Gene: MsUbiquitous_38 Start: 25806, Stop: 26132, Start Num: 52

Candidate Starts for MsUbiquitous_38:

(Start: 52 @25806 has 51 MA's), (84, 26037), (87, 26058), (89, 26073),

Gene: Mudpuppy_34 Start: 24965, Stop: 25408, Start Num: 48

Candidate Starts for Mudpuppy_34:

(15, 24752), (Start: 48 @24965 has 60 MA's), (60, 25064), (82, 25217), (91, 25268),

Gene: Mysterium_35 Start: 24178, Stop: 24612, Start Num: 49

Candidate Starts for Mysterium_35:

(Start: 49 @24178 has 21 MA's), (90, 24478),

Gene: Nicky22_38 Start: 26183, Stop: 26509, Start Num: 52

Candidate Starts for Nicky22_38:

(Start: 52 @26183 has 51 MA's), (87, 26435), (89, 26450),

Gene: Niobe_35 Start: 26862, Stop: 27212, Start Num: 48

Candidate Starts for Niobe_35:

(Start: 48 @26862 has 60 MA's), (54, 26907), (60, 26946), (69, 27000), (82, 27099), (91, 27150),

Gene: Nitro_36 Start: 26582, Stop: 26929, Start Num: 48

Candidate Starts for Nitro_36:

(Start: 48 @26582 has 60 MA's), (54, 26627), (60, 26666), (69, 26720), (84, 26828), (91, 26870),

Gene: ObiToo_40 Start: 26129, Stop: 26491, Start Num: 48

Candidate Starts for ObiToo_40:

(Start: 48 @26129 has 60 MA's), (69, 26267), (84, 26375), (91, 26417),

Gene: Origami_42 Start: 26772, Stop: 27203, Start Num: 49

Candidate Starts for Origami_42:
(Start: 49 @26772 has 21 MA's), (82, 27024),

Gene: PandaPo_35 Start: 24193, Stop: 24543, Start Num: 48
Candidate Starts for PandaPo_35:
(17, 24001), (19, 24025), (22, 24055), (33, 24097), (Start: 48 @24193 has 60 MA's), (60, 24277), (84, 24439), (91, 24481), (92, 24487),

Gene: PastaFagioli_36 Start: 25674, Stop: 26000, Start Num: 52
Candidate Starts for PastaFagioli_36:
(Start: 52 @25674 has 51 MA's), (84, 25905), (91, 25947),

Gene: Pecas_37 Start: 25718, Stop: 26044, Start Num: 52
Candidate Starts for Pecas_37:
(Start: 52 @25718 has 51 MA's), (87, 25970), (89, 25985),

Gene: Percival_46 Start: 28994, Stop: 29350, Start Num: 48
Candidate Starts for Percival_46:
(Start: 48 @28994 has 60 MA's), (53, 29039), (63, 29096), (91, 29285), (97, 29327),

Gene: PhigPhack_38 Start: 25544, Stop: 25870, Start Num: 52
Candidate Starts for PhigPhack_38:
(Start: 52 @25544 has 51 MA's), (67, 25652), (84, 25775), (89, 25811), (91, 25817),

Gene: Phisb_38 Start: 25777, Stop: 26103, Start Num: 52
Candidate Starts for Phisb_38:
(Start: 52 @25777 has 51 MA's), (67, 25885), (84, 26008), (89, 26044), (91, 26050),

Gene: Phives_38 Start: 27302, Stop: 27745, Start Num: 48
Candidate Starts for Phives_38:
(28, 27194), (29, 27197), (31, 27206), (Start: 48 @27302 has 60 MA's), (82, 27554), (84, 27563), (91, 27605), (94, 27632), (100, 27668),

Gene: Pixelle_35 Start: 26837, Stop: 27184, Start Num: 48
Candidate Starts for Pixelle_35:
(Start: 48 @26837 has 60 MA's), (60, 26921), (84, 27083), (91, 27125),

Gene: PondAmelia_48 Start: 26644, Stop: 26970, Start Num: 52
Candidate Starts for PondAmelia_48:
(Start: 52 @26644 has 51 MA's), (68, 26764), (70, 26770), (75, 26812), (84, 26875), (87, 26896), (89, 26911), (91, 26917),

Gene: Powerpuff_37 Start: 26303, Stop: 26746, Start Num: 48
Candidate Starts for Powerpuff_37:
(Start: 48 @26303 has 60 MA's), (82, 26555), (91, 26606),

Gene: Pumpkins_36 Start: 26180, Stop: 26539, Start Num: 47
Candidate Starts for Pumpkins_36:
(25, 26060), (Start: 47 @26180 has 5 MA's), (69, 26318), (91, 26468),

Gene: QMacho_39 Start: 26201, Stop: 26527, Start Num: 52
Candidate Starts for QMacho_39:
(Start: 52 @26201 has 51 MA's), (87, 26453), (89, 26468),

Gene: Quenya_36 Start: 25890, Stop: 26219, Start Num: 51

Candidate Starts for Quenya_36:

(8, 25413), (13, 25524), (14, 25566), (Start: 51 @25890 has 20 MA's), (64, 25977), (69, 26013), (70, 26016), (87, 26142), (89, 26157), (91, 26163),

Gene: Reedo_35 Start: 24148, Stop: 24591, Start Num: 48

Candidate Starts for Reedo_35:

(Start: 48 @24148 has 60 MA's), (54, 24193), (60, 24247), (82, 24400), (84, 24409), (91, 24451), (92, 24457), (94, 24478),

Gene: RockScotty_35 Start: 24176, Stop: 24610, Start Num: 49

Candidate Starts for RockScotty_35:

(30, 24068), (34, 24080), (39, 24104), (Start: 49 @24176 has 21 MA's), (90, 24476),

Gene: Rollins_34 Start: 23702, Stop: 24043, Start Num: 51

Candidate Starts for Rollins_34:

(Start: 51 @23702 has 20 MA's), (65, 23795), (91, 23975),

Gene: Rona_35 Start: 26210, Stop: 26542, Start Num: 51

Candidate Starts for Rona_35:

(3, 25613), (7, 25721), (Start: 51 @26210 has 20 MA's), (67, 26321), (68, 26333), (70, 26339), (76, 26387), (84, 26444), (89, 26480), (91, 26486),

Gene: Sabourin_35 Start: 24066, Stop: 24500, Start Num: 49

Candidate Starts for Sabourin_35:

(34, 23970), (39, 23994), (Start: 49 @24066 has 21 MA's), (Start: 59 @24153 has 1 MA's), (90, 24366),

Gene: Samy_60 Start: 37282, Stop: 37698, Start Num: 46

Candidate Starts for Samy_60:

(Start: 46 @37282 has 1 MA's), (62, 37390), (66, 37414), (83, 37534), (84, 37537), (86, 37549), (90, 37576), (92, 37585), (94, 37606), (98, 37624),

Gene: SanaSana_40 Start: 27314, Stop: 27640, Start Num: 52

Candidate Starts for SanaSana_40:

(Start: 52 @27314 has 51 MA's), (70, 27440), (84, 27545), (87, 27566), (89, 27581), (91, 27587),

Gene: SansAfet_38 Start: 25631, Stop: 25957, Start Num: 52

Candidate Starts for SansAfet_38:

(Start: 52 @25631 has 51 MA's), (84, 25862), (89, 25898), (91, 25904),

Gene: SarBear_37 Start: 25498, Stop: 25824, Start Num: 52

Candidate Starts for SarBear_37:

(Start: 52 @25498 has 51 MA's), (87, 25750), (89, 25765),

Gene: Schaffner_36 Start: 26410, Stop: 26769, Start Num: 47

Candidate Starts for Schaffner_36:

(Start: 47 @26410 has 5 MA's), (60, 26494), (69, 26548), (79, 26623), (91, 26698),

Gene: ShakeltOph_40 Start: 26737, Stop: 27180, Start Num: 49

Candidate Starts for ShakeltOph_40:

(Start: 49 @26737 has 21 MA's), (60, 26836), (91, 27040), (95, 27070),

Gene: Sharkboy_36 Start: 26309, Stop: 26641, Start Num: 51
Candidate Starts for Sharkboy_36:
(Start: 51 @26309 has 20 MA's), (67, 26420), (68, 26432), (70, 26438), (76, 26486), (84, 26543), (91, 26585),

Gene: Simpson_37 Start: 25218, Stop: 25661, Start Num: 48
Candidate Starts for Simpson_37:
(Start: 48 @25218 has 60 MA's), (60, 25317), (82, 25470), (91, 25521),

Gene: SirBeanington_37 Start: 25819, Stop: 26145, Start Num: 52
Candidate Starts for SirBeanington_37:
(Start: 52 @25819 has 51 MA's), (69, 25942), (87, 26071), (89, 26086),

Gene: Skelbel_36 Start: 26862, Stop: 27212, Start Num: 48
Candidate Starts for Skelbel_36:
(Start: 48 @26862 has 60 MA's), (54, 26907), (60, 26946), (69, 27000), (82, 27099), (91, 27150),

Gene: Skylord_34 Start: 23633, Stop: 23974, Start Num: 51
Candidate Starts for Skylord_34:
(Start: 51 @23633 has 20 MA's), (65, 23726), (91, 23906),

Gene: Slay_38 Start: 26179, Stop: 26505, Start Num: 52
Candidate Starts for Slay_38:
(Start: 52 @26179 has 51 MA's), (87, 26431), (89, 26446),

Gene: Snek_35 Start: 24475, Stop: 24915, Start Num: 48
Candidate Starts for Snek_35:
(18, 24304), (20, 24328), (23, 24358), (35, 24400), (Start: 48 @24475 has 60 MA's), (54, 24520), (82, 24727), (91, 24778), (99, 24835),

Gene: Softsoap_37 Start: 25542, Stop: 25868, Start Num: 52
Candidate Starts for Softsoap_37:
(Start: 52 @25542 has 51 MA's), (84, 25773), (91, 25815),

Gene: Solea_38 Start: 25521, Stop: 25847, Start Num: 52
Candidate Starts for Solea_38:
(Start: 52 @25521 has 51 MA's), (84, 25752), (89, 25788), (91, 25794),

Gene: Soondubu_33 Start: 27354, Stop: 27797, Start Num: 48
Candidate Starts for Soondubu_33:
(10, 26925), (19, 27192), (27, 27246), (Start: 48 @27354 has 60 MA's), (84, 27615), (91, 27657), (92, 27663), (93, 27681), (96, 27693),

Gene: Sooty_35 Start: 24081, Stop: 24515, Start Num: 49
Candidate Starts for Sooty_35:
(34, 23985), (39, 24009), (Start: 49 @24081 has 21 MA's), (Start: 59 @24168 has 1 MA's), (90, 24381),

Gene: SpecialK_35 Start: 24066, Stop: 24500, Start Num: 49
Candidate Starts for SpecialK_35:
(Start: 49 @24066 has 21 MA's), (90, 24366),

Gene: Stoor_38 Start: 26983, Stop: 27309, Start Num: 52
Candidate Starts for Stoor_38:

(5, 26470), (6, 26488), (9, 26524), (12, 26593), (Start: 52 @26983 has 51 MA's), (68, 27103), (70, 27109), (75, 27151), (84, 27214), (87, 27235), (89, 27250), (91, 27256),

Gene: Stromboli_38 Start: 26847, Stop: 27173, Start Num: 52

Candidate Starts for Stromboli_38:

(1, 26094), (5, 26334), (6, 26352), (9, 26388), (12, 26457), (Start: 52 @26847 has 51 MA's), (68, 26967), (70, 26973), (84, 27078), (87, 27099), (89, 27114), (91, 27120),

Gene: Stuu_35 Start: 24178, Stop: 24612, Start Num: 49

Candidate Starts for Stuu_35:

(Start: 49 @24178 has 21 MA's), (90, 24478),

Gene: SuMoo_46 Start: 28468, Stop: 28815, Start Num: 48

Candidate Starts for SuMoo_46:

(32, 28372), (44, 28456), (Start: 48 @28468 has 60 MA's), (81, 28690), (84, 28717), (91, 28759),

Gene: Subaru_36 Start: 26877, Stop: 27227, Start Num: 48

Candidate Starts for Subaru_36:

(38, 26808), (Start: 48 @26877 has 60 MA's), (54, 26922), (60, 26961), (69, 27015), (82, 27114), (84, 27123), (91, 27165),

Gene: Sue2_36 Start: 26239, Stop: 26682, Start Num: 48

Candidate Starts for Sue2_36:

(Start: 48 @26239 has 60 MA's), (69, 26392), (87, 26521), (91, 26542), (92, 26548),

Gene: SuperHands_45 Start: 29494, Stop: 29850, Start Num: 48

Candidate Starts for SuperHands_45:

(Start: 48 @29494 has 60 MA's), (53, 29539), (63, 29596), (91, 29785), (97, 29827),

Gene: Swervy_38 Start: 25698, Stop: 26024, Start Num: 52

Candidate Starts for Swervy_38:

(Start: 52 @25698 has 51 MA's), (87, 25950), (89, 25965),

Gene: Tallboi_36 Start: 27029, Stop: 27379, Start Num: 48

Candidate Starts for Tallboi_36:

(24, 26903), (Start: 48 @27029 has 60 MA's), (54, 27074), (84, 27275), (91, 27317),

Gene: Tbone_34 Start: 25013, Stop: 25456, Start Num: 48

Candidate Starts for Tbone_34:

(15, 24791), (Start: 48 @25013 has 60 MA's), (60, 25112), (82, 25265), (91, 25316),

Gene: Teagster_38 Start: 25820, Stop: 26179, Start Num: 50

Candidate Starts for Teagster_38:

(Start: 50 @25820 has 1 MA's), (57, 25874), (68, 25949), (87, 26081), (89, 26096), (91, 26102),

Gene: TforTroy_37 Start: 26052, Stop: 26408, Start Num: 47

Candidate Starts for TforTroy_37:

(25, 25932), (Start: 47 @26052 has 5 MA's), (91, 26340),

Gene: ThursdayNight_39 Start: 26870, Stop: 27295, Start Num: 48

Candidate Starts for ThursdayNight_39:

(26, 26753), (Start: 48 @26870 has 60 MA's), (60, 26969), (82, 27122), (91, 27173), (95, 27203),

Gene: Tian_35 Start: 26817, Stop: 27164, Start Num: 48
Candidate Starts for Tian_35:
(Start: 48 @26817 has 60 MA's), (60, 26901), (84, 27063), (91, 27105),

Gene: Tuck_39 Start: 27855, Stop: 28298, Start Num: 48
Candidate Starts for Tuck_39:
(Start: 48 @27855 has 60 MA's), (82, 28107), (84, 28116), (91, 28158), (94, 28185), (100, 28221),

Gene: TukTuk_38 Start: 25769, Stop: 26095, Start Num: 52
Candidate Starts for TukTuk_38:
(Start: 52 @25769 has 51 MA's), (67, 25877), (84, 26000), (89, 26036), (91, 26042),

Gene: Turab_34 Start: 25291, Stop: 25641, Start Num: 48
Candidate Starts for Turab_34:
(17, 25111), (22, 25165), (Start: 48 @25291 has 60 MA's), (54, 25336), (60, 25375), (84, 25537), (91, 25579),

Gene: Tutumahutu_35 Start: 25185, Stop: 25628, Start Num: 48
Candidate Starts for Tutumahutu_35:
(Start: 48 @25185 has 60 MA's), (60, 25284), (82, 25437), (91, 25488),

Gene: Tweety19_35 Start: 24474, Stop: 24914, Start Num: 48
Candidate Starts for Tweety19_35:
(18, 24303), (20, 24327), (23, 24357), (35, 24399), (Start: 48 @24474 has 60 MA's), (54, 24519), (82, 24726), (91, 24777), (99, 24834),

Gene: UtzChips_43 Start: 27442, Stop: 27804, Start Num: 48
Candidate Starts for UtzChips_43:
(36, 27361), (Start: 48 @27442 has 60 MA's), (79, 27658), (91, 27733),

Gene: VResidence_36 Start: 25348, Stop: 25791, Start Num: 48
Candidate Starts for VResidence_36:
(Start: 48 @25348 has 60 MA's), (82, 25600), (84, 25609), (91, 25651), (92, 25657), (95, 25681), (104, 25768),

Gene: Vitas_34 Start: 23642, Stop: 23983, Start Num: 51
Candidate Starts for Vitas_34:
(Start: 51 @23642 has 20 MA's), (65, 23735), (91, 23915),

Gene: VroomVroom_40 Start: 26879, Stop: 27325, Start Num: 49
Candidate Starts for VroomVroom_40:
(29, 26771), (Start: 46 @26867 has 1 MA's), (Start: 49 @26879 has 21 MA's), (60, 26978), (91, 27182), (103, 27275),

Gene: WalkingDead_39 Start: 27238, Stop: 27564, Start Num: 52
Candidate Starts for WalkingDead_39:
(Start: 52 @27238 has 51 MA's), (70, 27364), (75, 27406), (82, 27460), (84, 27469), (87, 27490), (89, 27505), (91, 27511),

Gene: Warda_35 Start: 25189, Stop: 25632, Start Num: 48
Candidate Starts for Warda_35:
(15, 24967), (Start: 48 @25189 has 60 MA's), (60, 25288), (82, 25441), (91, 25492),

Gene: Wildwest_35 Start: 25377, Stop: 25820, Start Num: 48

Candidate Starts for Wildwest_35:

(18, 25194), (20, 25218), (23, 25248), (Start: 48 @25377 has 60 MA's), (82, 25629), (84, 25638), (91, 25680), (92, 25686), (100, 25743), (105, 25800),

Gene: Yang_36 Start: 25545, Stop: 25904, Start Num: 47

Candidate Starts for Yang_36:

(Start: 47 @25545 has 5 MA's), (69, 25683), (79, 25758), (91, 25833),

Gene: YesChef_35 Start: 25162, Stop: 25605, Start Num: 48

Candidate Starts for YesChef_35:

(Start: 48 @25162 has 60 MA's), (82, 25414), (91, 25465),