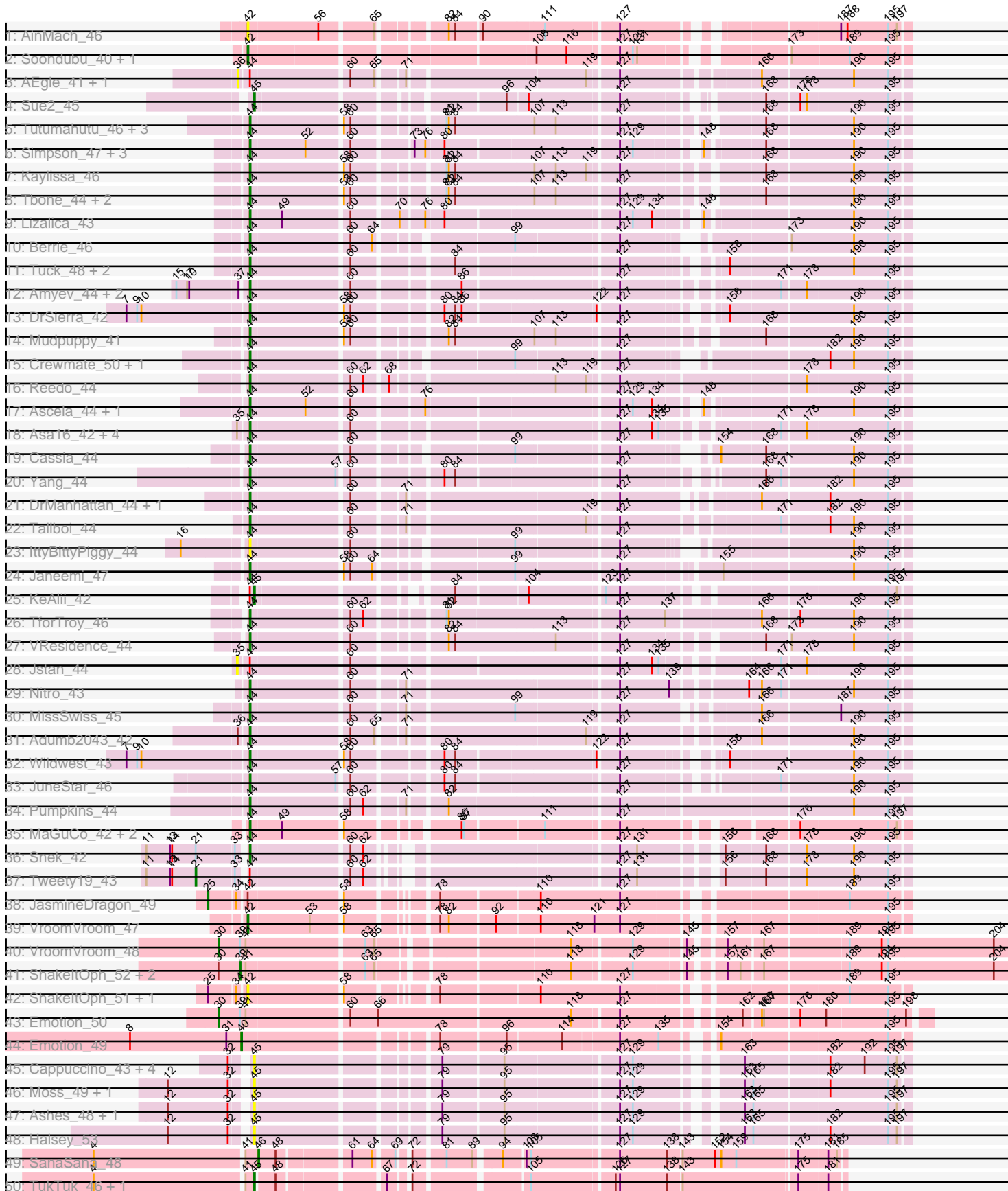
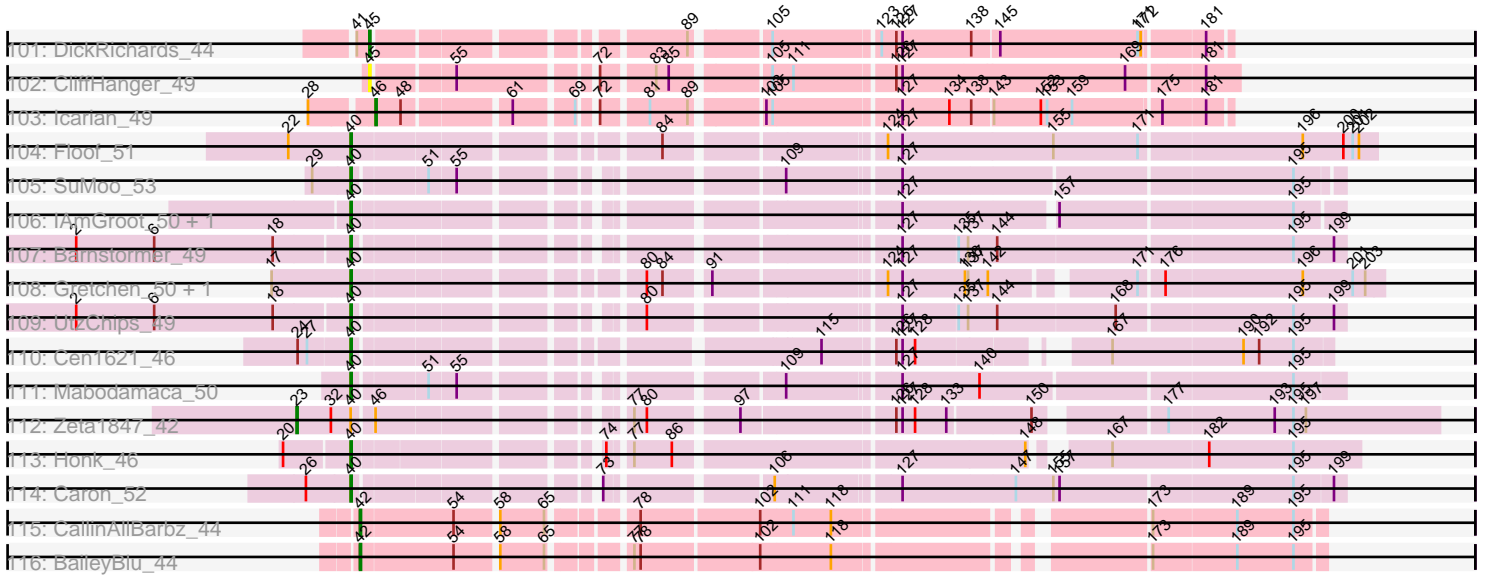


Pham 192362



Pham 192362



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 192362 Report

This analysis was run 11/02/24 on database version 579.

Pham number 192362 has 167 members, 35 are drafts.

Phages represented in each track:

- Track 1 : AinMach_46
- Track 2 : Soondubu_40, Exile_39
- Track 3 : AEgle_41, Turab_42
- Track 4 : Sue2_45
- Track 5 : Tutumahutu_46, Powerpuff_47, Lego_44, YesChef_45
- Track 6 : Simpson_47, Cyan_45, JohnDoe_45, Joemato_45
- Track 7 : Kaylissa_46
- Track 8 : Tbone_44, Warda_45, AGrandiflora_47
- Track 9 : Lizalica_43
- Track 10 : Berrie_46
- Track 11 : Tuck_48, Community_47, Phives_48
- Track 12 : Amyev_44, Pixelle_45, Tian_43
- Track 13 : DrSierra_42
- Track 14 : Mudpuppy_41
- Track 15 : Crewmate_50, ObiToo_50
- Track 16 : Reedo_44
- Track 17 : Ascela_44, Iter_44
- Track 18 : Asa16_42, Niobe_42, Eraser_42, London_42, Elezi_42
- Track 19 : Cassia_44
- Track 20 : Yang_44
- Track 21 : DrManhattan_44, Adolin_45
- Track 22 : Tallboi_44
- Track 23 : IttyBittyPiggy_44
- Track 24 : Janeemi_47
- Track 25 : KeAlii_42
- Track 26 : TforTroy_46
- Track 27 : VResidence_44
- Track 28 : Jstan_44
- Track 29 : Nitro_43
- Track 30 : MissSwiss_45
- Track 31 : Adumb2043_42
- Track 32 : Wildwest_43
- Track 33 : JuneStar_46
- Track 34 : Pumpkins_44
- Track 35 : MaGuCo_42, Maureen_45, Liebe_45
- Track 36 : Snek_42
- Track 37 : Tweety19_43

- Track 38 : JasmineDragon_49
- Track 39 : VroomVroom_47
- Track 40 : VroomVroom_48
- Track 41 : ShakeltOph_52, MiniMommy_52, JasmineDragon_50
- Track 42 : ShakeltOph_51, MiniMommy_51
- Track 43 : Emotion_50
- Track 44 : Emotion_49
- Track 45 : Cappuccino_43, Kalimba_43, Gambol_44, Sooty_44, Donkey_44
- Track 46 : Moss_49, SpecialK_49
- Track 47 : Ashes_48, Mysterium_42
- Track 48 : Halsey_53
- Track 49 : SanaSana_48
- Track 50 : TukTuk_46, SarBear_45
- Track 51 : Phisb_46
- Track 52 : Rollins_43
- Track 53 : Rona_43, ChiliPepper_43, Dismas_43, Sharkboy_44
- Track 54 : Elva_47
- Track 55 : Celaena_43, FlameThrower_43
- Track 56 : Finalfrontier_46
- Track 57 : WalkingDead_47
- Track 58 : Buldak_43
- Track 59 : Kenzers_46
- Track 60 : QMacho_48
- Track 61 : Slay_46
- Track 62 : Bachaco_43
- Track 63 : Lynlen_46
- Track 64 : SansAfet_46
- Track 65 : Vitas_43, Bernstein_43, Skylord_43, Brahms_43, Coltrane_43, Clayda5_44
- Track 66 : BelmontSKP_46, AnnaLie_46
- Track 67 : Stoor_46
- Track 68 : Cashington_43, Albright_43, BubbaBear_44
- Track 69 : BAjuniper_46
- Track 70 : Johnathan_44
- Track 71 : LimaBean_45, Abigail_45, CroZenni_45
- Track 72 : Avocadoman_44
- Track 73 : IndyLu_45
- Track 74 : Teagster_48
- Track 75 : Swervy_46
- Track 76 : BabyYoda_46, Stromboli_46
- Track 77 : Shayna_45
- Track 78 : Eula_46
- Track 79 : Olliecat_43, Squircle_43
- Track 80 : Arroyo_46
- Track 81 : Katzastrophic_44
- Track 82 : Lahqtemish_45
- Track 83 : SunnyD_48
- Track 84 : Burritobowl_45
- Track 85 : AvGardian_47
- Track 86 : Gack_43
- Track 87 : Eden_43
- Track 88 : Jovita_46
- Track 89 : Nicky22_46

- Track 90 : Armstrong_43
- Track 91 : Kieran_43
- Track 92 : Didgeridoo_48
- Track 93 : DirtyBubble_45
- Track 94 : Loviatar_82
- Track 95 : Kate33_45
- Track 96 : Albedo_46
- Track 97 : BabyDaisy_45
- Track 98 : Franklin22_44
- Track 99 : Quenya_45
- Track 100 : Doobus_44
- Track 101 : DickRichards_44
- Track 102 : CliffHanger_49
- Track 103 : Icarian_49
- Track 104 : Floof_51
- Track 105 : SuMoo_53
- Track 106 : IAmGroot_50, GardenState_50
- Track 107 : Barnstormer_49
- Track 108 : Gretchen_50, Percival_51
- Track 109 : UtzChips_49
- Track 110 : Cen1621_46
- Track 111 : Mabodamaca_50
- Track 112 : Zeta1847_42
- Track 113 : Honk_46
- Track 114 : Caron_52
- Track 115 : CallinAllBarbz_44
- Track 116 : BaileyBlu_44

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

The start number called the most often in the published annotations is 44, it was called in 46 of the 132 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• AGrandiflora_47, Adolin_45, Adumb2043_42, Amyev_44, Asa16_42, Ascela_44, Berrie_46, Cassia_44, Community_47, Crewmate_50, Cyan_45, DrManhattan_44, DrSierra_42, Elezi_42, Eraser_42, Iter_44, IttyBittyPiggy_44, Janeemi_47, Joemato_45, JohnDoe_45, JuneStar_46, Kaylissa_46, Lego_44, Liebe_45, Lizalica_43, London_42, MaGuCo_42, Maureen_45, MissSwiss_45, Mudpuppy_41, Niobe_42, Nitro_43, ObiToo_50, Olliecat_43, Phives_48, Pixelle_45, Powerpuff_47, Pumpkins_44, Reedo_44, Simpson_47, Snek_42, Squircle_43, Tallboi_44, Tbone_44, TforTroy_46, Tian_43, Tuck_48, Tutumahutu_46, VResidence_44, Warda_45, Wildwest_43, Yang_44, YesChef_45,

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

• AEgle_41, Buldak_43, Jstan_44, KeAlii_42, Turab_42, Tweety19_43,

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

• Abigail_45, AinMach_46, Albedo_46, Albright_43, AnnaLie_46, Armstrong_43, Arroyo_46, Ashes_48, AvGuardian_47, Avocadoman_44, BAjuniper_46,

BabyDaisy_45, BabyYoda_46, Bachaco_43, BaileyBlu_44, Barnstormer_49, BelmontSKP_46, Bernstein_43, Brahms_43, BubbaBear_44, Burritobowl_45, CallinAllBarbz_44, Cappuccino_43, Caron_52, Cashington_43, Celaena_43, Cen1621_46, ChiliPepper_43, Clayda5_44, CliffHanger_49, Coltrane_43, CroZenni_45, DickRichards_44, Didgeridoo_48, DirtyBubble_45, Dismas_43, Donkey_44, Doobus_44, Eden_43, Elva_47, Emotion_49, Emotion_50, Eula_46, Exile_39, Finalfrontier_46, FlameThrower_43, Floof_51, Franklin22_44, Gack_43, Gambol_44, GardenState_50, Gretchen_50, Halsey_53, Honk_46, IAmGroot_50, Icarian_49, IndyLu_45, JasmineDragon_49, JasmineDragon_50, Johnathan_44, Jovita_46, Kalimba_43, Kate33_45, Katzastrophic_44, Kenzers_46, Kieran_43, Lahqtemish_45, LimaBean_45, Loviatar_82, Lynlen_46, Mabodamaca_50, MiniMommy_51, MiniMommy_52, Moss_49, Mysterium_42, Nicky22_46, Percival_51, Phisb_46, QMacho_48, Quenya_45, Rollins_43, Rona_43, SanaSana_48, SansAfet_46, SarBear_45, ShakeltOph_51, ShakeltOph_52, Sharkboy_44, Shayna_45, Skylord_43, Slay_46, Soondubu_40, Sooty_44, SpecialK_49, Stoor_46, Stromboli_46, SuMoo_53, Sue2_45, SunnyD_48, Swervy_46, Teagster_48, TukTuk_46, UtzChips_49, Vitas_43, VroomVroom_47, VroomVroom_48, WalkingDead_47, Zeta1847_42,

Summary by start number:

Start 21:

- Found in 2 of 167 (1.2%) of genes in pham
- Manual Annotations of this start: 1 of 132
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Tweety19_43 (AZ3),

Start 23:

- Found in 1 of 167 (0.6%) 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: Zeta1847_42 (EH),

Start 25:

- Found in 3 of 167 (1.8%) 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: JasmineDragon_49 (AZ4),

Start 30:

- Found in 5 of 167 (3.0%) 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: Emotion_50 (AZ4), VroomVroom_48 (AZ4),

Start 35:

- Found in 6 of 167 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Jstan_44 (AZ1),

Start 36:

- Found in 3 of 167 (1.8%) of genes in pham
- No Manual Annotations of this start.
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AEgle_41 (AZ1), Turab_42 (AZ1),

Start 39:

- Found in 5 of 167 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 132
- Called 60.0% of time when present
- Phage (with cluster) where this start called: JasmineDragon_50 (AZ4), MiniMommy_52 (AZ4), ShakeltOph_52 (AZ4),

Start 40:

- Found in 14 of 167 (8.4%) of genes in pham
- Manual Annotations of this start: 13 of 132
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Barnstormer_49 (EH), Caron_52 (EH), Cen1621_46 (EH), Emotion_49 (AZ4), Floof_51 (EH), GardenState_50 (EH), Gretchen_50 (EH), Honk_46 (EH), IAmGroot_50 (EH), Mabodamaca_50 (EH), Percival_51 (EH), SuMoo_53 (EH), UtzChips_49 (EH),

Start 41:

- Found in 61 of 167 (36.5%) of genes in pham
- No Manual Annotations of this start.
- Called 4.9% of time when present
- Phage (with cluster) where this start called: Buldak_43 (EB), Shayna_45 (EB), Teagster_48 (EB),

Start 42:

- Found in 9 of 167 (5.4%) of genes in pham
- Manual Annotations of this start: 4 of 132
- Called 88.9% of time when present
- Phage (with cluster) where this start called: AinMach_46 (AZ), BaileyBlu_44 (FP), CallinAllBarbz_44 (FP), Exile_39 (AZ), MiniMommy_51 (AZ4), ShakeltOph_51 (AZ4), Soondubu_40 (AZ), VroomVroom_47 (AZ4),

Start 43:

- Found in 11 of 167 (6.6%) of genes in pham
- Manual Annotations of this start: 10 of 132
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Armstrong_43 (EB), Bernstein_43 (EB), Brahms_43 (EB), Clayda5_44 (EB), Coltrane_43 (EB), Eden_43 (EB), Franklin22_44 (EB), Gack_43 (EB), Skylord_43 (EB), Vitas_43 (EB),

Start 44:

- Found in 59 of 167 (35.3%) of genes in pham
- Manual Annotations of this start: 46 of 132
- Called 89.8% of time when present
- Phage (with cluster) where this start called: AGrandiflora_47 (AZ1), Adolin_45 (AZ1), Adumb2043_42 (AZ1), Amyev_44 (AZ1), Asa16_42 (AZ1), Ascela_44 (AZ1), Berrie_46 (AZ1), Cassia_44 (AZ1), Community_47 (AZ1), Crewmate_50 (AZ1), Cyan_45 (AZ1), DrManhattan_44 (AZ1), DrSierra_42 (AZ1), Elezi_42 (AZ1), Eraser_42 (AZ1), Iter_44 (AZ1), IttyBittyPiggy_44 (AZ1), Janeemi_47 (AZ1),

Joemato_45 (AZ1), JohnDoe_45 (AZ1), JuneStar_46 (AZ1), Kaylissa_46 (AZ1), Lego_44 (AZ1), Liebe_45 (AZ2), Lizalica_43 (AZ1), London_42 (AZ1), MaGuCo_42 (AZ2), Maureen_45 (AZ2), MissSwiss_45 (AZ1), Mudpuppy_41 (AZ1), Niobe_42 (AZ1), Nitro_43 (AZ1), ObiToo_50 (AZ1), Olliecat_43 (EB), Phives_48 (AZ1), Pixelle_45 (AZ1), Powerpuff_47 (AZ1), Pumpkins_44 (AZ1), Reedo_44 (AZ1), Simpson_47 (AZ1), Sneek_42 (AZ3), Squircle_43 (EB), Tallboi_44 (AZ1), Tbone_44 (AZ1), TforTroy_46 (AZ1), Tian_43 (AZ1), Tuck_48 (AZ1), Tutumahutu_46 (AZ1), VResidence_44 (AZ1), Warda_45 (AZ1), Wildwest_43 (AZ1), Yang_44 (AZ1), YesChef_45 (AZ1),

Start 45:

- Found in 56 of 167 (33.5%) of genes in pham
- Manual Annotations of this start: 37 of 132
- Called 91.1% of time when present
- Phage (with cluster) where this start called: Albedo_46 (EB), Albright_43 (EB), Ashes_48 (AZ5), AvGardian_47 (EB), Avocadoman_44 (EB), BAjuniper_46 (EB), BabyDaisy_45 (EB), Bachaco_43 (EB), BubbaBear_44 (EB), Burritobowl_45 (EB), Cappuccino_43 (AZ5), Cashington_43 (EB), Celaena_43 (EB), ChiliPepper_43 (EB), CliffHanger_49 (EB), DickRichards_44 (EB), Didgeridoo_48 (EB), Dismas_43 (EB), Donkey_44 (AZ5), Doobus_44 (EB), Eula_46 (EB), Finalfrontier_46 (EB), FlameThrower_43 (EB), Gambol_44 (AZ5), Halsey_53 (AZ5), IndyLu_45 (EB), Johnathan_44 (EB), Jovita_46 (EB), Kalimba_43 (AZ5), Kate33_45 (EB), Katzastrophic_44 (EB), KeAlii_42 (AZ1), Kenzers_46 (EB), Kieran_43 (EB), Lynlen_46 (EB), Moss_49 (AZ5), Mysterium_42 (AZ5), Phisb_46 (EB), Quenya_45 (EB), Rona_43 (EB), SansAfet_46 (EB), SarBear_45 (EB), Sharkboy_44 (EB), Slay_46 (EB), Sooty_44 (AZ5), SpecialK_49 (AZ5), Stoor_46 (EB), Sue2_45 (AZ1), SunnyD_48 (EB), Swervy_46 (EB), TukTuk_46 (EB),

Start 46:

- Found in 18 of 167 (10.8%) of genes in pham
- Manual Annotations of this start: 15 of 132
- Called 94.4% of time when present
- Phage (with cluster) where this start called: Abigail_45 (EB), AnnaLie_46 (EB), Arroyo_46 (EB), BabyYoda_46 (EB), BelmontSKP_46 (EB), CroZenni_45 (EB), DirtyBubble_45 (EB), Elva_47 (EB), Icarian_49 (EB), Lahqtemish_45 (EB), LimaBean_45 (EB), Loviatar_82 (EB), Nicky22_46 (EB), QMacho_48 (EB), SanaSana_48 (EB), Stromboli_46 (EB), WalkingDead_47 (EB),

Start 47:

- Found in 9 of 167 (5.4%) of genes in pham
- Manual Annotations of this start: 1 of 132
- Called 11.1% of time when present
- Phage (with cluster) where this start called: Rollins_43 (EB),

Summary by clusters:

There are 9 clusters represented in this pham: FP, AZ3, EH, EB, AZ1, AZ2, AZ, AZ4, AZ5,

Info for manual annotations of cluster AZ:

- Start number 42 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 44 was manually annotated 42 times for cluster AZ1.
- Start number 45 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 44 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 21 was manually annotated 1 time for cluster AZ3.
- Start number 44 was manually annotated 1 time for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 25 was manually annotated 1 time for cluster AZ4.
- Start number 30 was manually annotated 2 times for cluster AZ4.
- Start number 39 was manually annotated 1 time for cluster AZ4.
- Start number 40 was manually annotated 1 time for cluster AZ4.
- Start number 42 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster EB:

- Start number 43 was manually annotated 10 times for cluster EB.
- Start number 45 was manually annotated 35 times for cluster EB.
- Start number 46 was manually annotated 15 times for cluster EB.
- Start number 47 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster EH:

- Start number 23 was manually annotated 1 time for cluster EH.
- Start number 40 was manually annotated 12 times for cluster EH.

Info for manual annotations of cluster FP:

- Start number 42 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AEgle_41 Start: 31604, Stop: 32437, Start Num: 36

Candidate Starts for AEgle_41:

(36, 31604), (Start: 44 @31616 has 46 MA's), (60, 31745), (65, 31778), (71, 31808), (119, 32036), (127, 32072), (166, 32240), (190, 32363), (195, 32411),

Gene: AGrandiflora_47 Start: 32890, Stop: 33708, Start Num: 44

Candidate Starts for AGrandiflora_47:

(Start: 44 @32890 has 46 MA's), (58, 33010), (60, 33019), (81, 33124), (82, 33127), (84, 33136), (107, 33244), (113, 33274), (127, 33352), (168, 33517), (190, 33634), (195, 33682),

Gene: Abigail_45 Start: 31658, Stop: 32443, Start Num: 46

Candidate Starts for Abigail_45:

(4, 31442), (41, 31646), (Start: 46 @31658 has 15 MA's), (48, 31682), (59, 31766), (67, 31811), (72, 31832), (91, 31919), (103, 31964), (105, 31970), (111, 31988), (127, 32081), (136, 32141), (138, 32147), (149, 32198), (152, 32210), (181, 32357), (191, 32390),

Gene: Adolin_45 Start: 31088, Stop: 31897, Start Num: 44

Candidate Starts for Adolin_45:

(Start: 44 @31088 has 46 MA's), (60, 31217), (71, 31280), (127, 31544), (166, 31700), (182, 31790), (195, 31871),

Gene: Adumb2043_42 Start: 31635, Stop: 32456, Start Num: 44

Candidate Starts for Adumb2043_42:

(36, 31623), (Start: 44 @31635 has 46 MA's), (60, 31764), (65, 31797), (71, 31827), (119, 32055), (127, 32091), (166, 32259), (190, 32382), (195, 32430),

Gene: AinMach_46 Start: 32886, Stop: 33686, Start Num: 42

Candidate Starts for AinMach_46:

(Start: 42 @32886 has 4 MA's), (56, 32982), (65, 33051), (82, 33126), (84, 33135), (90, 33168), (111, 33249), (127, 33342), (187, 33594), (188, 33603), (195, 33660), (197, 33672),

Gene: Albedo_46 Start: 32261, Stop: 32983, Start Num: 45

Candidate Starts for Albedo_46:

(4, 32045), (41, 32249), (Start: 45 @32261 has 37 MA's), (69, 32426), (72, 32435), (81, 32474), (91, 32522), (93, 32537), (100, 32561), (105, 32573), (126, 32678), (127, 32684), (138, 32750), (175, 32924), (181, 32963),

Gene: Albright_43 Start: 31191, Stop: 31910, Start Num: 45

Candidate Starts for Albright_43:

(41, 31179), (Start: 45 @31191 has 37 MA's), (89, 31440), (93, 31467), (105, 31503), (123, 31596), (126, 31608), (127, 31614), (138, 31680), (145, 31704), (171, 31836), (172, 31839), (181, 31890),

Gene: Amyev_44 Start: 33180, Stop: 33998, Start Num: 44

Candidate Starts for Amyev_44:

(15, 33087), (17, 33102), (19, 33105), (37, 33171), (Start: 44 @33180 has 46 MA's), (60, 33309), (86, 33441), (127, 33642), (171, 33831), (178, 33861), (195, 33972),

Gene: AnnaLie_46 Start: 32269, Stop: 33054, Start Num: 46

Candidate Starts for AnnaLie_46:

(4, 32053), (41, 32257), (Start: 46 @32269 has 15 MA's), (48, 32293), (67, 32422), (72, 32443), (91, 32530), (103, 32575), (105, 32581), (123, 32674), (127, 32692), (136, 32752), (138, 32758), (149, 32809), (152, 32821), (175, 32929), (181, 32968), (191, 33001),

Gene: Armstrong_43 Start: 29796, Stop: 30521, Start Num: 43

Candidate Starts for Armstrong_43:

(3, 29571), (Start: 43 @29796 has 10 MA's), (Start: 47 @29814 has 1 MA's), (69, 29961), (72, 29970), (75, 29985), (81, 30009), (100, 30096), (105, 30108), (111, 30126), (126, 30213), (127, 30219), (134, 30264), (138, 30285), (143, 30303), (181, 30495), (186, 30510),

Gene: Arroyo_46 Start: 32377, Stop: 33162, Start Num: 46

Candidate Starts for Arroyo_46:

(4, 32161), (41, 32365), (Start: 46 @32377 has 15 MA's), (48, 32401), (67, 32530), (72, 32551), (91, 32638), (103, 32683), (105, 32689), (127, 32800), (136, 32860), (138, 32866), (149, 32917), (152, 32929), (181, 33076), (191, 33109),

Gene: Asa16_42 Start: 32994, Stop: 33812, Start Num: 44

Candidate Starts for Asa16_42:

(35, 32982), (Start: 44 @32994 has 46 MA's), (60, 33123), (127, 33456), (134, 33501), (135, 33510), (171, 33645), (178, 33675), (195, 33786),

Gene: Ascela_44 Start: 32212, Stop: 33024, Start Num: 44

Candidate Starts for Ascela_44:

(Start: 44 @32212 has 46 MA's), (52, 32287), (60, 32341), (76, 32431), (127, 32677), (129, 32695), (134, 32722), (148, 32764), (190, 32950), (195, 32998),

Gene: Ashes_48 Start: 30453, Stop: 31253, Start Num: 45

Candidate Starts for Ashes_48:

(12, 30351), (32, 30435), (Start: 45 @30453 has 37 MA's), (79, 30675), (95, 30756), (127, 30900), (129, 30918), (163, 31035), (165, 31047), (195, 31227), (197, 31239),

Gene: AvGardian_47 Start: 32285, Stop: 33004, Start Num: 45

Candidate Starts for AvGardian_47:

(4, 32069), (41, 32273), (Start: 45 @32285 has 37 MA's), (49, 32318), (64, 32426), (67, 32438), (72, 32459), (81, 32498), (100, 32585), (105, 32597), (111, 32615), (126, 32702), (127, 32708), (138, 32774), (143, 32792), (152, 32837), (153, 32843), (160, 32870), (173, 32936), (181, 32984),

Gene: Avocadoman_44 Start: 31398, Stop: 32117, Start Num: 45

Candidate Starts for Avocadoman_44:

(4, 31182), (41, 31386), (Start: 45 @31398 has 37 MA's), (89, 31647), (93, 31674), (105, 31710), (126, 31815), (127, 31821), (138, 31887), (145, 31911), (171, 32043), (172, 32046), (181, 32097),

Gene: BAjuniper_46 Start: 33187, Stop: 33909, Start Num: 45

Candidate Starts for BAjuniper_46:

(4, 32971), (41, 33175), (Start: 45 @33187 has 37 MA's), (67, 33340), (75, 33376), (81, 33400), (83, 33406), (84, 33412), (98, 33475), (105, 33499), (111, 33517), (126, 33604), (127, 33610), (138, 33676), (143, 33694), (181, 33886),

Gene: BabyDaisy_45 Start: 32232, Stop: 32951, Start Num: 45

Candidate Starts for BabyDaisy_45:

(4, 32016), (41, 32220), (Start: 45 @32232 has 37 MA's), (48, 32256), (72, 32406), (100, 32532), (105, 32544), (111, 32562), (113, 32577), (126, 32649), (127, 32655), (143, 32739), (151, 32778), (169, 32865), (175, 32892), (177, 32898), (181, 32931),

Gene: BabyYoda_46 Start: 33001, Stop: 33720, Start Num: 46

Candidate Starts for BabyYoda_46:

(4, 32785), (41, 32989), (Start: 46 @33001 has 15 MA's), (48, 33025), (69, 33166), (72, 33175), (81, 33214), (89, 33250), (103, 33307), (105, 33313), (127, 33424), (138, 33490), (143, 33508), (152, 33553), (159, 33583), (175, 33661), (181, 33700),

Gene: Bachaco_43 Start: 32963, Stop: 33685, Start Num: 45

Candidate Starts for Bachaco_43:

(41, 32951), (Start: 45 @32963 has 37 MA's), (49, 32996), (67, 33116), (69, 33128), (72, 33137), (93, 33239), (100, 33263), (105, 33275), (126, 33380), (127, 33386), (138, 33452), (169, 33596), (177, 33629), (181, 33662),

Gene: BaileyBlu_44 Start: 31818, Stop: 32633, Start Num: 42

Candidate Starts for BaileyBlu_44:

(Start: 42 @31818 has 4 MA's), (54, 31905), (58, 31941), (65, 31983), (77, 32040), (78, 32046), (102, 32154), (118, 32220), (173, 32475), (189, 32553), (195, 32607),

Gene: Barnstormer_49 Start: 33593, Stop: 34432, Start Num: 40

Candidate Starts for Barnstormer_49:

(2, 33335), (6, 33410), (18, 33524), (Start: 40 @33593 has 13 MA's), (127, 34025), (135, 34076), (137, 34085), (144, 34109), (195, 34382), (199, 34421),

Gene: BelmontSKP_46 Start: 32269, Stop: 33054, Start Num: 46

Candidate Starts for BelmontSKP_46:

(4, 32053), (41, 32257), (Start: 46 @32269 has 15 MA's), (48, 32293), (67, 32422), (72, 32443), (91, 32530), (103, 32575), (105, 32581), (123, 32674), (127, 32692), (136, 32752), (138, 32758), (149, 32809), (152, 32821), (175, 32929), (181, 32968), (191, 33001),

Gene: Bernstein_43 Start: 29878, Stop: 30603, Start Num: 43

Candidate Starts for Bernstein_43:

(3, 29653), (5, 29680), (Start: 43 @29878 has 10 MA's), (Start: 47 @29896 has 1 MA's), (69, 30043), (72, 30052), (75, 30067), (81, 30091), (100, 30178), (105, 30190), (111, 30208), (126, 30295), (127, 30301), (134, 30346), (138, 30367), (143, 30385), (181, 30577), (186, 30592),

Gene: Berrie_46 Start: 33402, Stop: 34193, Start Num: 44

Candidate Starts for Berrie_46:

(Start: 44 @33402 has 46 MA's), (60, 33531), (64, 33561), (99, 33720), (127, 33849), (173, 34032), (190, 34119), (195, 34167),

Gene: Brahms_43 Start: 29798, Stop: 30523, Start Num: 43

Candidate Starts for Brahms_43:

(3, 29573), (5, 29600), (Start: 43 @29798 has 10 MA's), (Start: 47 @29816 has 1 MA's), (69, 29963), (72, 29972), (75, 29987), (81, 30011), (100, 30098), (105, 30110), (111, 30128), (126, 30215), (127, 30221), (134, 30266), (138, 30287), (143, 30305), (181, 30497), (186, 30512),

Gene: BubbaBear_44 Start: 31851, Stop: 32570, Start Num: 45

Candidate Starts for BubbaBear_44:

(41, 31839), (Start: 45 @31851 has 37 MA's), (89, 32100), (93, 32127), (105, 32163), (123, 32256), (126, 32268), (127, 32274), (138, 32340), (145, 32364), (171, 32496), (172, 32499), (181, 32550),

Gene: Buldak_43 Start: 30417, Stop: 31178, Start Num: 41

Candidate Starts for Buldak_43:

(4, 30204), (38, 30408), (41, 30417), (Start: 44 @30423 has 46 MA's), (Start: 45 @30429 has 37 MA's), (72, 30615), (98, 30729), (101, 30744), (112, 30783), (113, 30786), (127, 30864), (138, 30930), (159, 31026), (160, 31029), (181, 31146),

Gene: Burritobowl_45 Start: 31852, Stop: 32571, Start Num: 45

Candidate Starts for Burritobowl_45:

(4, 31636), (41, 31840), (Start: 45 @31852 has 37 MA's), (57, 31951), (64, 31993), (72, 32026), (81, 32065), (105, 32164), (113, 32197), (126, 32269), (127, 32275), (136, 32335), (138, 32341), (175, 32512), (181, 32551),

Gene: CallinAllBarbz_44 Start: 32005, Stop: 32820, Start Num: 42

Candidate Starts for CallinAllBarbz_44:

(Start: 42 @32005 has 4 MA's), (54, 32092), (58, 32128), (65, 32170), (78, 32233), (102, 32341), (111, 32371), (118, 32407), (173, 32662), (189, 32740), (195, 32794),

Gene: Cappuccino_43 Start: 30322, Stop: 31122, Start Num: 45

Candidate Starts for Cappuccino_43:

(32, 30304), (Start: 45 @30322 has 37 MA's), (79, 30544), (95, 30625), (127, 30769), (129, 30787), (163, 30904), (182, 31015), (192, 31063), (195, 31096), (197, 31108),

Gene: Caron_52 Start: 34597, Stop: 35439, Start Num: 40

Candidate Starts for Caron_52:

(26, 34555), (Start: 40 @34597 has 13 MA's), (73, 34789), (106, 34924), (127, 35029), (147, 35134), (155, 35170), (157, 35176), (195, 35392), (199, 35428),

Gene: Cashington_43 Start: 31231, Stop: 31950, Start Num: 45

Candidate Starts for Cashington_43:

(41, 31219), (Start: 45 @31231 has 37 MA's), (89, 31480), (93, 31507), (105, 31543), (123, 31636), (126, 31648), (127, 31654), (138, 31720), (145, 31744), (171, 31876), (172, 31879), (181, 31930),

Gene: Cassia_44 Start: 32176, Stop: 32967, Start Num: 44

Candidate Starts for Cassia_44:

(Start: 44 @32176 has 46 MA's), (60, 32305), (99, 32494), (127, 32623), (154, 32719), (168, 32776), (190, 32893), (195, 32941),

Gene: Celaena_43 Start: 32705, Stop: 33427, Start Num: 45

Candidate Starts for Celaena_43:

(41, 32693), (Start: 45 @32705 has 37 MA's), (49, 32738), (67, 32858), (69, 32870), (72, 32879), (105, 33017), (126, 33122), (127, 33128), (177, 33371), (181, 33404),

Gene: Cen1621_46 Start: 32188, Stop: 32991, Start Num: 40

Candidate Starts for Cen1621_46:

(24, 32140), (27, 32149), (Start: 40 @32188 has 13 MA's), (115, 32566), (126, 32626), (127, 32632), (128, 32644), (167, 32785), (190, 32908), (192, 32923), (195, 32956),

Gene: ChiliPepper_43 Start: 32335, Stop: 33057, Start Num: 45

Candidate Starts for ChiliPepper_43:

(4, 32119), (41, 32323), (Start: 45 @32335 has 37 MA's), (48, 32359), (64, 32476), (67, 32488), (69, 32500), (91, 32596), (94, 32614), (100, 32635), (105, 32647), (127, 32758), (138, 32824), (143, 32842), (152, 32887), (160, 32920), (177, 33001), (181, 33034),

Gene: Clayda5_44 Start: 29785, Stop: 30510, Start Num: 43

Candidate Starts for Clayda5_44:

(3, 29560), (5, 29587), (Start: 43 @29785 has 10 MA's), (Start: 47 @29803 has 1 MA's), (69, 29950), (72, 29959), (75, 29974), (81, 29998), (100, 30085), (105, 30097), (111, 30115), (126, 30202), (127, 30208), (134, 30253), (138, 30274), (143, 30292), (181, 30484), (186, 30499),

Gene: CliffHanger_49 Start: 31124, Stop: 31864, Start Num: 45

Candidate Starts for CliffHanger_49:

(Start: 45 @31124 has 37 MA's), (55, 31193), (72, 31307), (83, 31352), (85, 31364), (105, 31445), (111, 31463), (126, 31550), (127, 31556), (169, 31766), (181, 31832),

Gene: Coltrane_43 Start: 29798, Stop: 30523, Start Num: 43

Candidate Starts for Coltrane_43:

(3, 29573), (5, 29600), (Start: 43 @29798 has 10 MA's), (Start: 47 @29816 has 1 MA's), (69, 29963), (72, 29972), (75, 29987), (81, 30011), (100, 30098), (105, 30110), (111, 30128), (126, 30215), (127, 30221), (134, 30266), (138, 30287), (143, 30305), (181, 30497), (186, 30512),

Gene: Community_47 Start: 34215, Stop: 35021, Start Num: 44

Candidate Starts for Community_47:

(Start: 44 @34215 has 46 MA's), (60, 34344), (84, 34467), (127, 34674), (158, 34785), (190, 34947), (195, 34995),

Gene: Crewmate_50 Start: 32863, Stop: 33654, Start Num: 44

Candidate Starts for Crewmate_50:

(Start: 44 @32863 has 46 MA's), (99, 33181), (127, 33310), (182, 33547), (190, 33580), (195, 33628),

Gene: CroZenni_45 Start: 31772, Stop: 32557, Start Num: 46

Candidate Starts for CroZenni_45:

(4, 31556), (41, 31760), (Start: 46 @31772 has 15 MA's), (48, 31796), (59, 31880), (67, 31925), (72, 31946), (91, 32033), (103, 32078), (105, 32084), (111, 32102), (127, 32195), (136, 32255), (138, 32261), (149, 32312), (152, 32324), (181, 32471), (191, 32504),

Gene: Cyan_45 Start: 32495, Stop: 33307, Start Num: 44

Candidate Starts for Cyan_45:

(Start: 44 @32495 has 46 MA's), (52, 32570), (60, 32624), (73, 32699), (76, 32714), (80, 32738), (127, 32960), (129, 32978), (148, 33047), (168, 33116), (190, 33233), (195, 33281),

Gene: DickRichards_44 Start: 32211, Stop: 32930, Start Num: 45

Candidate Starts for DickRichards_44:

(41, 32199), (Start: 45 @32211 has 37 MA's), (89, 32460), (105, 32523), (123, 32616), (126, 32628), (127, 32634), (138, 32700), (145, 32724), (171, 32856), (172, 32859), (181, 32910),

Gene: Didgeridoo_48 Start: 32578, Stop: 33297, Start Num: 45

Candidate Starts for Didgeridoo_48:

(41, 32566), (Start: 45 @32578 has 37 MA's), (48, 32602), (72, 32752), (100, 32878), (105, 32890), (111, 32908), (113, 32923), (126, 32995), (127, 33001), (143, 33085), (169, 33211), (175, 33238), (177, 33244), (181, 33277),

Gene: DirtyBubble_45 Start: 32669, Stop: 33388, Start Num: 46

Candidate Starts for DirtyBubble_45:

(41, 32657), (Start: 46 @32669 has 15 MA's), (48, 32693), (61, 32783), (67, 32822), (69, 32834), (72, 32843), (81, 32882), (89, 32918), (103, 32975), (105, 32981), (120, 33059), (127, 33092), (134, 33137), (138, 33158), (143, 33176), (152, 33221), (159, 33251), (175, 33329), (181, 33368),

Gene: Dismas_43 Start: 32288, Stop: 33010, Start Num: 45

Candidate Starts for Dismas_43:

(4, 32072), (41, 32276), (Start: 45 @32288 has 37 MA's), (48, 32312), (64, 32429), (67, 32441), (69, 32453), (91, 32549), (94, 32567), (100, 32588), (105, 32600), (127, 32711), (138, 32777), (143, 32795), (152, 32840), (160, 32873), (177, 32954), (181, 32987),

Gene: Donkey_44 Start: 30312, Stop: 31112, Start Num: 45

Candidate Starts for Donkey_44:

(32, 30294), (Start: 45 @30312 has 37 MA's), (79, 30534), (95, 30615), (127, 30759), (129, 30777), (163, 30894), (182, 31005), (192, 31053), (195, 31086), (197, 31098),

Gene: Doobus_44 Start: 31595, Stop: 32314, Start Num: 45

Candidate Starts for Doobus_44:

(4, 31379), (41, 31583), (Start: 45 @31595 has 37 MA's), (89, 31844), (93, 31871), (105, 31907), (123, 32000), (126, 32012), (127, 32018), (138, 32084), (145, 32108), (171, 32240), (172, 32243), (181, 32294),

Gene: DrManhattan_44 Start: 30654, Stop: 31463, Start Num: 44

Candidate Starts for DrManhattan_44:

(Start: 44 @30654 has 46 MA's), (60, 30783), (71, 30846), (127, 31110), (166, 31266), (182, 31356), (195, 31437),

Gene: DrSierra_42 Start: 30494, Stop: 31300, Start Num: 44

Candidate Starts for DrSierra_42:

(7, 30329), (9, 30344), (10, 30350), (Start: 44 @30494 has 46 MA's), (58, 30614), (60, 30623), (80, 30731), (84, 30746), (86, 30755), (122, 30929), (127, 30953), (158, 31064), (190, 31226), (195, 31274),

Gene: Eden_43 Start: 30525, Stop: 31250, Start Num: 43

Candidate Starts for Eden_43:

(Start: 43 @30525 has 10 MA's), (72, 30699), (100, 30825), (105, 30837), (111, 30855), (127, 30948), (130, 30969), (138, 31014), (143, 31032), (152, 31077), (170, 31164), (177, 31191), (181, 31224), (187, 31242),

Gene: Elezi_42 Start: 32991, Stop: 33809, Start Num: 44

Candidate Starts for Elezi_42:

(35, 32979), (Start: 44 @32991 has 46 MA's), (60, 33120), (127, 33453), (134, 33498), (135, 33507), (171, 33642), (178, 33672), (195, 33783),

Gene: Elva_47 Start: 32903, Stop: 33622, Start Num: 46

Candidate Starts for Elva_47:

(41, 32888), (Start: 46 @32903 has 15 MA's), (48, 32927), (49, 32936), (64, 33044), (69, 33068), (72, 33077), (89, 33152), (103, 33209), (105, 33215), (127, 33326), (141, 33401), (143, 33410), (152, 33455), (169, 33536), (175, 33563), (181, 33602), (184, 33611),

Gene: Emotion_50 Start: 34867, Stop: 35778, Start Num: 30

Candidate Starts for Emotion_50:

(Start: 30 @34867 has 2 MA's), (Start: 39 @34897 has 1 MA's), (41, 34903), (60, 35038), (66, 35077), (118, 35341), (127, 35398), (162, 35542), (166, 35563), (167, 35566), (176, 35611), (180, 35647), (195, 35728), (198, 35752),

Gene: Emotion_49 Start: 33922, Stop: 34743, Start Num: 40

Candidate Starts for Emotion_49:

(8, 33766), (31, 33901), (Start: 40 @33922 has 13 MA's), (78, 34159), (96, 34246), (114, 34318), (127, 34393), (135, 34447), (154, 34495), (195, 34717),

Gene: Eraser_42 Start: 33001, Stop: 33819, Start Num: 44

Candidate Starts for Eraser_42:

(35, 32989), (Start: 44 @33001 has 46 MA's), (60, 33130), (127, 33463), (134, 33508), (135, 33517), (171, 33652), (178, 33682), (195, 33793),

Gene: Eula_46 Start: 31944, Stop: 32666, Start Num: 45

Candidate Starts for Eula_46:

(4, 31728), (41, 31932), (Start: 45 @31944 has 37 MA's), (48, 31968), (67, 32097), (72, 32118), (83, 32163), (105, 32256), (126, 32361), (127, 32367), (138, 32433), (143, 32451), (181, 32643),

Gene: Exile_39 Start: 33484, Stop: 34293, Start Num: 42

Candidate Starts for Exile_39:

(Start: 42 @33484 has 4 MA's), (108, 33844), (116, 33886), (127, 33949), (129, 33967), (131, 33973), (173, 34135), (189, 34213), (195, 34267),

Gene: Finalfrontier_46 Start: 32803, Stop: 33522, Start Num: 45

Candidate Starts for Finalfrontier_46:

(4, 32587), (41, 32791), (Start: 45 @32803 has 37 MA's), (48, 32827), (67, 32956), (72, 32977), (105, 33115), (126, 33220), (127, 33226), (138, 33292), (143, 33310), (175, 33463), (181, 33502),

Gene: FlameThrower_43 Start: 32154, Stop: 32876, Start Num: 45

Candidate Starts for FlameThrower_43:

(41, 32142), (Start: 45 @32154 has 37 MA's), (49, 32187), (67, 32307), (69, 32319), (72, 32328), (105, 32466), (126, 32571), (127, 32577), (177, 32820), (181, 32853),

Gene: Floop_51 Start: 34481, Stop: 35374, Start Num: 40

Candidate Starts for Floop_51:

(22, 34421), (Start: 40 @34481 has 13 MA's), (84, 34733), (124, 34916), (127, 34928), (155, 35072), (171, 35153), (196, 35303), (200, 35342), (201, 35351), (202, 35357),

Gene: Franklin22_44 Start: 30400, Stop: 31122, Start Num: 43

Candidate Starts for Franklin22_44:

(Start: 43 @30400 has 10 MA's), (57, 30499), (72, 30574), (75, 30589), (81, 30613), (88, 30640), (100, 30700), (105, 30712), (117, 30763), (127, 30823), (130, 30844), (138, 30889), (143, 30907), (181, 31099),

Gene: Gack_43 Start: 30444, Stop: 31169, Start Num: 43

Candidate Starts for Gack_43:

(Start: 43 @30444 has 10 MA's), (Start: 47 @30462 has 1 MA's), (55, 30513), (72, 30618), (75, 30633), (94, 30723), (105, 30756), (117, 30807), (127, 30867), (138, 30933), (143, 30951), (181, 31143),

Gene: Gambol_44 Start: 30331, Stop: 31131, Start Num: 45

Candidate Starts for Gambol_44:

(32, 30313), (Start: 45 @30331 has 37 MA's), (79, 30553), (95, 30634), (127, 30778), (129, 30796), (163, 30913), (182, 31024), (192, 31072), (195, 31105), (197, 31117),

Gene: GardenState_50 Start: 33862, Stop: 34695, Start Num: 40

Candidate Starts for GardenState_50:

(Start: 40 @33862 has 13 MA's), (127, 34300), (157, 34435), (195, 34651),

Gene: Gretchen_50 Start: 35099, Stop: 35974, Start Num: 40

Candidate Starts for Gretchen_50:

(17, 35027), (Start: 40 @35099 has 13 MA's), (80, 35336), (84, 35351), (91, 35387), (124, 35534), (127, 35546), (136, 35606), (137, 35609), (142, 35627), (171, 35747), (176, 35768), (196, 35897), (201, 35945), (203, 35957),

Gene: Halsey_53 Start: 30458, Stop: 31258, Start Num: 45

Candidate Starts for Halsey_53:

(12, 30356), (32, 30440), (Start: 45 @30458 has 37 MA's), (79, 30680), (95, 30761), (127, 30905), (129, 30923), (163, 31040), (165, 31052), (182, 31151), (195, 31232), (197, 31244),

Gene: Honk_46 Start: 30645, Stop: 31490, Start Num: 40

Candidate Starts for Honk_46:

(20, 30585), (Start: 40 @30645 has 13 MA's), (74, 30843), (77, 30858), (86, 30894), (148, 31206), (167, 31257), (182, 31347), (195, 31428),

Gene: IAmGroot_50 Start: 34329, Stop: 35162, Start Num: 40

Candidate Starts for IAmGroot_50:

(Start: 40 @34329 has 13 MA's), (127, 34767), (157, 34902), (195, 35118),

Gene: Icarian_49 Start: 33677, Stop: 34396, Start Num: 46

Candidate Starts for Icarian_49:

(28, 33626), (Start: 46 @33677 has 15 MA's), (48, 33701), (61, 33791), (69, 33842), (72, 33851), (81, 33890), (89, 33926), (103, 33983), (105, 33989), (127, 34100), (134, 34145), (138, 34166), (143, 34184), (152, 34229), (153, 34235), (159, 34259), (175, 34337), (181, 34376),

Gene: IndyLu_45 Start: 32178, Stop: 32897, Start Num: 45

Candidate Starts for IndyLu_45:

(41, 32166), (Start: 45 @32178 has 37 MA's), (48, 32202), (72, 32352), (100, 32478), (105, 32490), (111, 32508), (113, 32523), (126, 32595), (127, 32601), (151, 32724), (175, 32838), (177, 32844), (181, 32877), (185, 32889),

Gene: Iter_44 Start: 32207, Stop: 33019, Start Num: 44

Candidate Starts for Iter_44:

(Start: 44 @32207 has 46 MA's), (52, 32282), (60, 32336), (76, 32426), (127, 32672), (129, 32690), (134, 32717), (148, 32759), (190, 32945), (195, 32993),

Gene: IttyBittyPiggy_44 Start: 31970, Stop: 32758, Start Num: 44

Candidate Starts for IttyBittyPiggy_44:

(16, 31886), (Start: 44 @31970 has 46 MA's), (60, 32099), (99, 32288), (127, 32417), (190, 32684), (195, 32732),

Gene: Janeemi_47 Start: 34214, Stop: 35026, Start Num: 44

Candidate Starts for Janeemi_47:

(Start: 44 @34214 has 46 MA's), (58, 34334), (60, 34343), (64, 34373), (99, 34532), (127, 34661), (155, 34781), (190, 34952), (195, 35000),

Gene: JasmineDragon_49 Start: 33132, Stop: 33989, Start Num: 25

Candidate Starts for JasmineDragon_49:

(Start: 25 @33132 has 1 MA's), (34, 33168), (Start: 42 @33177 has 4 MA's), (58, 33300), (78, 33399), (110, 33528), (127, 33639), (189, 33909), (195, 33963),

Gene: JasmineDragon_50 Start: 34166, Stop: 35137, Start Num: 39

Candidate Starts for JasmineDragon_50:

(Start: 30 @34136 has 2 MA's), (Start: 39 @34166 has 1 MA's), (41, 34172), (63, 34328), (65, 34340), (118, 34577), (129, 34652), (145, 34718), (157, 34754), (161, 34772), (167, 34799), (189, 34910), (194, 34955), (195, 34964), (204, 35111),

Gene: Joemato_45 Start: 32522, Stop: 33334, Start Num: 44

Candidate Starts for Joemato_45:

(Start: 44 @32522 has 46 MA's), (52, 32597), (60, 32651), (73, 32726), (76, 32741), (80, 32765), (127, 32987), (129, 33005), (148, 33074), (168, 33143), (190, 33260), (195, 33308),

Gene: JohnDoe_45 Start: 32518, Stop: 33330, Start Num: 44

Candidate Starts for JohnDoe_45:

(Start: 44 @32518 has 46 MA's), (52, 32593), (60, 32647), (73, 32722), (76, 32737), (80, 32761), (127, 32983), (129, 33001), (148, 33070), (168, 33139), (190, 33256), (195, 33304),

Gene: Johnathan_44 Start: 31234, Stop: 31953, Start Num: 45

Candidate Starts for Johnathan_44:

(41, 31222), (Start: 45 @31234 has 37 MA's), (64, 31375), (67, 31387), (72, 31408), (100, 31534), (105, 31546), (123, 31639), (126, 31651), (127, 31657), (132, 31693), (136, 31717), (138, 31723), (143, 31741), (175, 31894), (181, 31933),

Gene: Jovita_46 Start: 31973, Stop: 32692, Start Num: 45

Candidate Starts for Jovita_46:

(41, 31961), (Start: 45 @31973 has 37 MA's), (48, 31997), (64, 32114), (67, 32126), (72, 32147), (105, 32285), (126, 32390), (127, 32396), (138, 32462), (143, 32480), (175, 32633), (181, 32672),

Gene: Jstan_44 Start: 32983, Stop: 33813, Start Num: 35

Candidate Starts for Jstan_44:

(35, 32983), (Start: 44 @32995 has 46 MA's), (60, 33124), (127, 33457), (134, 33502), (135, 33511), (171, 33646), (178, 33676), (195, 33787),

Gene: JuneStar_46 Start: 34096, Stop: 34911, Start Num: 44

Candidate Starts for JuneStar_46:

(Start: 44 @34096 has 46 MA's), (57, 34213), (60, 34225), (80, 34333), (84, 34348), (127, 34555), (171, 34735), (190, 34831), (195, 34879),

Gene: Kalimba_43 Start: 30309, Stop: 31109, Start Num: 45

Candidate Starts for Kalimba_43:

(32, 30291), (Start: 45 @30309 has 37 MA's), (79, 30531), (95, 30612), (127, 30756), (129, 30774), (163, 30891), (182, 31002), (192, 31050), (195, 31083), (197, 31095),

Gene: Kate33_45 Start: 31923, Stop: 32642, Start Num: 45

Candidate Starts for Kate33_45:

(41, 31911), (Start: 45 @31923 has 37 MA's), (48, 31947), (72, 32097), (100, 32223), (105, 32235), (111, 32253), (113, 32268), (126, 32340), (127, 32346), (143, 32430), (151, 32469), (175, 32583), (177, 32589), (181, 32622), (185, 32634),

Gene: Katzastrophic_44 Start: 32284, Stop: 33006, Start Num: 45

Candidate Starts for Katzastrophic_44:

(41, 32272), (Start: 45 @32284 has 37 MA's), (49, 32317), (67, 32437), (69, 32449), (72, 32458), (105, 32596), (117, 32647), (127, 32707), (138, 32773), (143, 32791), (177, 32950), (181, 32983),

Gene: Kaylissa_46 Start: 32908, Stop: 33726, Start Num: 44

Candidate Starts for Kaylissa_46:

(Start: 44 @32908 has 46 MA's), (58, 33028), (60, 33037), (81, 33142), (82, 33145), (84, 33154), (107, 33262), (113, 33292), (119, 33334), (127, 33370), (168, 33535), (190, 33652), (195, 33700),

Gene: KeAlii_42 Start: 32155, Stop: 32934, Start Num: 45

Candidate Starts for KeAlii_42:

(Start: 44 @32149 has 46 MA's), (Start: 45 @32155 has 37 MA's), (84, 32374), (104, 32467), (123, 32563), (127, 32581), (195, 32908), (197, 32920),

Gene: Kenzers_46 Start: 32014, Stop: 32736, Start Num: 45

Candidate Starts for Kenzers_46:

(4, 31798), (41, 32002), (Start: 45 @32014 has 37 MA's), (69, 32179), (72, 32188), (81, 32227), (91, 32275), (93, 32290), (100, 32314), (105, 32326), (111, 32344), (126, 32431), (127, 32437), (138, 32503), (175, 32677), (181, 32716),

Gene: Kieran_43 Start: 32296, Stop: 33018, Start Num: 45

Candidate Starts for Kieran_43:

(4, 32080), (41, 32284), (Start: 45 @32296 has 37 MA's), (48, 32320), (64, 32437), (67, 32449), (69, 32461), (91, 32557), (94, 32575), (100, 32596), (105, 32608), (127, 32719), (138, 32785), (143, 32803), (152, 32848), (177, 32962), (181, 32995),

Gene: Lahqtemish_45 Start: 32204, Stop: 32989, Start Num: 46

Candidate Starts for Lahqtemish_45:

(41, 32192), (Start: 46 @32204 has 15 MA's), (48, 32228), (67, 32357), (72, 32378), (91, 32465), (103, 32510), (105, 32516), (127, 32627), (136, 32687), (138, 32693), (149, 32744), (152, 32756), (175, 32864), (181, 32903), (191, 32936),

Gene: Lego_44 Start: 32226, Stop: 33044, Start Num: 44

Candidate Starts for Lego_44:

(Start: 44 @32226 has 46 MA's), (58, 32346), (60, 32355), (81, 32460), (82, 32463), (84, 32472), (107, 32580), (113, 32610), (127, 32688), (168, 32853), (190, 32970), (195, 33018),

Gene: Liebe_45 Start: 33847, Stop: 34644, Start Num: 44

Candidate Starts for Liebe_45:

(Start: 44 @33847 has 46 MA's), (49, 33889), (58, 33967), (86, 34096), (87, 34099), (111, 34201), (127, 34294), (176, 34498), (195, 34618), (197, 34630),

Gene: LimaBean_45 Start: 31536, Stop: 32321, Start Num: 46

Candidate Starts for LimaBean_45:

(4, 31320), (41, 31524), (Start: 46 @31536 has 15 MA's), (48, 31560), (59, 31644), (67, 31689), (72, 31710), (91, 31797), (103, 31842), (105, 31848), (111, 31866), (127, 31959), (136, 32019), (138, 32025), (149, 32076), (152, 32088), (181, 32235), (191, 32268),

Gene: Lizalica_43 Start: 31676, Stop: 32488, Start Num: 44

Candidate Starts for Lizalica_43:

(Start: 44 @31676 has 46 MA's), (49, 31718), (60, 31805), (70, 31865), (76, 31895), (80, 31919), (127, 32141), (129, 32159), (134, 32186), (148, 32228), (190, 32414), (195, 32462),

Gene: London_42 Start: 32991, Stop: 33809, Start Num: 44

Candidate Starts for London_42:

(35, 32979), (Start: 44 @32991 has 46 MA's), (60, 33120), (127, 33453), (134, 33498), (135, 33507), (171, 33642), (178, 33672), (195, 33783),

Gene: Loviatar_82 Start: 33899, Stop: 34618, Start Num: 46

Candidate Starts for Loviatar_82:

(4, 33683), (41, 33887), (Start: 46 @33899 has 15 MA's), (48, 33923), (61, 34013), (69, 34064), (72, 34073), (81, 34112), (89, 34148), (103, 34205), (105, 34211), (127, 34322), (138, 34388), (143, 34406), (152, 34451), (159, 34481), (175, 34559), (181, 34598), (184, 34607),

Gene: Lynlen_46 Start: 32014, Stop: 32733, Start Num: 45

Candidate Starts for Lynlen_46:

(4, 31798), (41, 32002), (Start: 45 @32014 has 37 MA's), (64, 32155), (72, 32188), (100, 32314), (105, 32326), (126, 32431), (127, 32437), (132, 32473), (136, 32497), (138, 32503), (175, 32674), (181, 32713), (185, 32725),

Gene: MaGuCo_42 Start: 32331, Stop: 33128, Start Num: 44

Candidate Starts for MaGuCo_42:

(Start: 44 @32331 has 46 MA's), (49, 32373), (58, 32451), (86, 32580), (87, 32583), (111, 32685), (127, 32778), (176, 32982), (195, 33102), (197, 33114),

Gene: Mabodamaca_50 Start: 35098, Stop: 35934, Start Num: 40

Candidate Starts for Mabodamaca_50:

(Start: 40 @35098 has 13 MA's), (51, 35161), (55, 35185), (109, 35434), (127, 35530), (140, 35602), (195, 35887),

Gene: Maureen_45 Start: 33847, Stop: 34644, Start Num: 44

Candidate Starts for Maureen_45:

(Start: 44 @33847 has 46 MA's), (49, 33889), (58, 33967), (86, 34096), (87, 34099), (111, 34201), (127, 34294), (176, 34498), (195, 34618), (197, 34630),

Gene: MiniMommy_52 Start: 34167, Stop: 35138, Start Num: 39

Candidate Starts for MiniMommy_52:

(Start: 30 @34137 has 2 MA's), (Start: 39 @34167 has 1 MA's), (41, 34173), (63, 34329), (65, 34341), (118, 34578), (129, 34653), (145, 34719), (157, 34755), (161, 34773), (167, 34800), (189, 34911), (194, 34956), (195, 34965), (204, 35112),

Gene: MiniMommy_51 Start: 33178, Stop: 33990, Start Num: 42

Candidate Starts for MiniMommy_51:

(Start: 25 @33133 has 1 MA's), (34, 33169), (Start: 42 @33178 has 4 MA's), (58, 33301), (78, 33400), (110, 33529), (127, 33640), (189, 33910), (195, 33964),

Gene: MissSwiss_45 Start: 31166, Stop: 31975, Start Num: 44

Candidate Starts for MissSwiss_45:

(Start: 44 @31166 has 46 MA's), (60, 31295), (71, 31358), (99, 31493), (127, 31622), (166, 31778), (187, 31883), (195, 31949),

Gene: Moss_49 Start: 30398, Stop: 31198, Start Num: 45

Candidate Starts for Moss_49:

(12, 30296), (32, 30380), (Start: 45 @30398 has 37 MA's), (79, 30620), (95, 30701), (127, 30845), (129, 30863), (163, 30980), (165, 30992), (182, 31091), (195, 31172), (197, 31184),

Gene: Mudpuppy_41 Start: 32165, Stop: 32983, Start Num: 44

Candidate Starts for Mudpuppy_41:

(Start: 44 @32165 has 46 MA's), (58, 32285), (60, 32294), (82, 32402), (84, 32411), (107, 32519), (113, 32549), (127, 32627), (168, 32792), (190, 32909), (195, 32957),

Gene: Mysterium_42 Start: 30228, Stop: 31028, Start Num: 45

Candidate Starts for Mysterium_42:

(12, 30126), (32, 30210), (Start: 45 @30228 has 37 MA's), (79, 30450), (95, 30531), (127, 30675), (129, 30693), (163, 30810), (165, 30822), (195, 31002), (197, 31014),

Gene: Nicky22_46 Start: 32406, Stop: 33125, Start Num: 46

Candidate Starts for Nicky22_46:

(41, 32394), (Start: 46 @32406 has 15 MA's), (48, 32430), (69, 32571), (72, 32580), (81, 32619), (94, 32685), (103, 32712), (105, 32718), (127, 32829), (143, 32913), (152, 32958), (159, 32988), (169, 33039), (175, 33066), (181, 33105),

Gene: Niobe_42 Start: 32995, Stop: 33813, Start Num: 44

Candidate Starts for Niobe_42:

(35, 32983), (Start: 44 @32995 has 46 MA's), (60, 33124), (127, 33457), (134, 33502), (135, 33511), (171, 33646), (178, 33676), (195, 33787),

Gene: Nitro_43 Start: 32794, Stop: 33615, Start Num: 44

Candidate Starts for Nitro_43:

(Start: 44 @32794 has 46 MA's), (60, 32923), (71, 32986), (127, 33250), (139, 33316), (164, 33406), (166, 33418), (171, 33445), (190, 33541), (195, 33589),

Gene: ObiToo_50 Start: 33306, Stop: 34097, Start Num: 44

Candidate Starts for ObiToo_50:

(Start: 44 @33306 has 46 MA's), (99, 33624), (127, 33753), (182, 33990), (190, 34023), (195, 34071),

Gene: Olliecat_43 Start: 30489, Stop: 31241, Start Num: 44

Candidate Starts for Olliecat_43:

(Start: 44 @30489 has 46 MA's), (Start: 45 @30495 has 37 MA's), (50, 30537), (72, 30681), (100, 30807), (112, 30849), (127, 30930), (138, 30996), (147, 31038), (159, 31092), (160, 31095), (171, 31155), (174, 31167), (177, 31176), (179, 31203), (181, 31209),

Gene: Percival_51 Start: 34934, Stop: 35809, Start Num: 40

Candidate Starts for Percival_51:

(17, 34862), (Start: 40 @34934 has 13 MA's), (80, 35171), (84, 35186), (91, 35222), (124, 35369), (127, 35381), (136, 35441), (137, 35444), (142, 35462), (171, 35582), (176, 35603), (196, 35732), (201, 35780), (203, 35792),

Gene: Phisb_46 Start: 32003, Stop: 32722, Start Num: 45

Candidate Starts for Phisb_46:

(4, 31787), (41, 31991), (Start: 45 @32003 has 37 MA's), (48, 32027), (64, 32144), (67, 32156), (72, 32177), (105, 32315), (126, 32420), (127, 32426), (138, 32492), (143, 32510), (175, 32663), (181, 32702),

Gene: Phives_48 Start: 34043, Stop: 34849, Start Num: 44

Candidate Starts for Phives_48:

(Start: 44 @34043 has 46 MA's), (60, 34172), (84, 34295), (127, 34502), (158, 34613), (190, 34775), (195, 34823),

Gene: Pixelle_45 Start: 33205, Stop: 34023, Start Num: 44

Candidate Starts for Pixelle_45:

(15, 33112), (17, 33127), (19, 33130), (37, 33196), (Start: 44 @33205 has 46 MA's), (60, 33334), (86, 33466), (127, 33667), (171, 33856), (178, 33886), (195, 33997),

Gene: Powerpuff_47 Start: 33614, Stop: 34432, Start Num: 44

Candidate Starts for Powerpuff_47:

(Start: 44 @33614 has 46 MA's), (58, 33734), (60, 33743), (81, 33848), (82, 33851), (84, 33860), (107, 33968), (113, 33998), (127, 34076), (168, 34241), (190, 34358), (195, 34406),

Gene: Pumpkins_44 Start: 32640, Stop: 33479, Start Num: 44

Candidate Starts for Pumpkins_44:

(Start: 44 @32640 has 46 MA's), (60, 32769), (62, 32787), (71, 32832), (82, 32877), (127, 33099), (190, 33405), (195, 33453),

Gene: QMacho_48 Start: 32641, Stop: 33360, Start Num: 46

Candidate Starts for QMacho_48:

(4, 32425), (41, 32629), (Start: 46 @32641 has 15 MA's), (48, 32665), (69, 32806), (72, 32815), (81, 32854), (103, 32947), (105, 32953), (127, 33064), (138, 33130), (143, 33148), (152, 33193), (159, 33223), (175, 33301), (181, 33340),

Gene: Quenya_45 Start: 32476, Stop: 33198, Start Num: 45

Candidate Starts for Quenya_45:

(4, 32260), (41, 32464), (Start: 45 @32476 has 37 MA's), (49, 32509), (67, 32629), (69, 32641), (72, 32650), (89, 32725), (91, 32737), (100, 32776), (105, 32788), (111, 32806), (126, 32893), (127, 32899), (134, 32944), (138, 32965), (152, 33028), (160, 33061), (169, 33109), (181, 33175),

Gene: Reedo_44 Start: 30708, Stop: 31547, Start Num: 44

Candidate Starts for Reedo_44:

(Start: 44 @30708 has 46 MA's), (60, 30837), (62, 30855), (68, 30882), (113, 31092), (119, 31134), (127, 31170), (178, 31410), (195, 31521),

Gene: Rollins_43 Start: 29896, Stop: 30603, Start Num: 47

Candidate Starts for Rollins_43:

(3, 29653), (5, 29680), (Start: 43 @29878 has 10 MA's), (Start: 47 @29896 has 1 MA's), (69, 30043), (72, 30052), (75, 30067), (81, 30091), (100, 30178), (105, 30190), (111, 30208), (126, 30295), (127, 30301), (134, 30346), (138, 30367), (143, 30385), (181, 30577), (186, 30592),

Gene: Rona_43 Start: 32279, Stop: 33001, Start Num: 45

Candidate Starts for Rona_43:

(4, 32063), (41, 32267), (Start: 45 @32279 has 37 MA's), (48, 32303), (64, 32420), (67, 32432), (69, 32444), (91, 32540), (94, 32558), (100, 32579), (105, 32591), (127, 32702), (138, 32768), (143, 32786), (152, 32831), (160, 32864), (177, 32945), (181, 32978),

Gene: SanaSana_48 Start: 33508, Stop: 34227, Start Num: 46

Candidate Starts for SanaSana_48:

(4, 33292), (41, 33496), (Start: 46 @33508 has 15 MA's), (48, 33532), (61, 33622), (64, 33649), (69, 33673), (72, 33682), (81, 33721), (89, 33757), (94, 33787), (103, 33814), (105, 33820), (127, 33931), (138, 33997), (143, 34015), (152, 34060), (154, 34069), (159, 34090), (175, 34168), (181, 34207), (185, 34219),

Gene: SansAfet_46 Start: 31865, Stop: 32584, Start Num: 45

Candidate Starts for SansAfet_46:

(4, 31649), (41, 31853), (Start: 45 @31865 has 37 MA's), (57, 31964), (72, 32039), (81, 32078), (100, 32165), (105, 32177), (113, 32210), (126, 32282), (127, 32288), (136, 32348), (138, 32354), (143, 32372), (175, 32525), (181, 32564),

Gene: SarBear_45 Start: 31651, Stop: 32370, Start Num: 45

Candidate Starts for SarBear_45:

(4, 31435), (41, 31639), (Start: 45 @31651 has 37 MA's), (48, 31675), (67, 31804), (72, 31825), (105, 31963), (126, 32068), (127, 32074), (138, 32140), (143, 32158), (175, 32311), (181, 32350),

Gene: ShakeltOph_52 Start: 34166, Stop: 35137, Start Num: 39

Candidate Starts for ShakeltOph_52:

(Start: 30 @34136 has 2 MA's), (Start: 39 @34166 has 1 MA's), (41, 34172), (63, 34328), (65, 34340), (118, 34577), (129, 34652), (145, 34718), (157, 34754), (161, 34772), (167, 34799), (189, 34910), (194, 34955), (195, 34964), (204, 35111),

Gene: ShakeltOph_51 Start: 33177, Stop: 33989, Start Num: 42

Candidate Starts for ShakeltOph_51:

(Start: 25 @33132 has 1 MA's), (34, 33168), (Start: 42 @33177 has 4 MA's), (58, 33300), (78, 33399), (110, 33528), (127, 33639), (189, 33909), (195, 33963),

Gene: Sharkboy_44 Start: 32378, Stop: 33100, Start Num: 45

Candidate Starts for Sharkboy_44:

(4, 32162), (41, 32366), (Start: 45 @32378 has 37 MA's), (48, 32402), (64, 32519), (67, 32531), (69, 32543), (91, 32639), (94, 32657), (100, 32678), (105, 32690), (127, 32801), (138, 32867), (143, 32885), (152, 32930), (160, 32963), (177, 33044), (181, 33077),

Gene: Shayna_45 Start: 31203, Stop: 31955, Start Num: 41

Candidate Starts for Shayna_45:

(4, 30999), (41, 31203), (Start: 45 @31215 has 37 MA's), (67, 31377), (69, 31389), (72, 31398), (103, 31530), (105, 31536), (125, 31638), (126, 31641), (127, 31647), (146, 31740), (159, 31806), (172, 31872), (177, 31890), (181, 31923),

Gene: Simpson_47 Start: 32526, Stop: 33338, Start Num: 44

Candidate Starts for Simpson_47:

(Start: 44 @32526 has 46 MA's), (52, 32601), (60, 32655), (73, 32730), (76, 32745), (80, 32769), (127, 32991), (129, 33009), (148, 33078), (168, 33147), (190, 33264), (195, 33312),

Gene: Skylord_43 Start: 29809, Stop: 30534, Start Num: 43

Candidate Starts for Skylord_43:

(3, 29584), (5, 29611), (Start: 43 @29809 has 10 MA's), (Start: 47 @29827 has 1 MA's), (69, 29974), (72, 29983), (75, 29998), (81, 30022), (100, 30109), (105, 30121), (111, 30139), (126, 30226), (127, 30232), (134, 30277), (138, 30298), (143, 30316), (181, 30508), (186, 30523),

Gene: Slay_46 Start: 32379, Stop: 33098, Start Num: 45

Candidate Starts for Slay_46:

(1, 32070), (4, 32163), (41, 32367), (Start: 45 @32379 has 37 MA's), (67, 32532), (72, 32553), (105, 32691), (126, 32796), (127, 32802), (138, 32868), (143, 32886), (175, 33039), (181, 33078), (185, 33090),

Gene: Snek_42 Start: 30604, Stop: 31398, Start Num: 44

Candidate Starts for Snek_42:

(11, 30475), (13, 30508), (14, 30511), (Start: 21 @30544 has 1 MA's), (33, 30595), (Start: 44 @30604 has 46 MA's), (60, 30733), (62, 30751), (127, 31039), (131, 31063), (156, 31156), (168, 31207), (178, 31258), (190, 31324), (195, 31372),

Gene: Soondubu_40 Start: 33487, Stop: 34296, Start Num: 42

Candidate Starts for Soondubu_40:

(Start: 42 @33487 has 4 MA's), (108, 33847), (116, 33889), (127, 33952), (129, 33970), (131, 33976), (173, 34138), (189, 34216), (195, 34270),

Gene: Sooty_44 Start: 30324, Stop: 31124, Start Num: 45

Candidate Starts for Sooty_44:

(32, 30306), (Start: 45 @30324 has 37 MA's), (79, 30546), (95, 30627), (127, 30771), (129, 30789), (163, 30906), (182, 31017), (192, 31065), (195, 31098), (197, 31110),

Gene: SpecialK_49 Start: 30306, Stop: 31106, Start Num: 45

Candidate Starts for SpecialK_49:

(12, 30204), (32, 30288), (Start: 45 @30306 has 37 MA's), (79, 30528), (95, 30609), (127, 30753), (129, 30771), (163, 30888), (165, 30900), (182, 30999), (195, 31080), (197, 31092),

Gene: Squirle_43 Start: 30488, Stop: 31240, Start Num: 44

Candidate Starts for Squirle_43:

(Start: 44 @30488 has 46 MA's), (Start: 45 @30494 has 37 MA's), (50, 30536), (72, 30680), (100, 30806), (112, 30848), (127, 30929), (138, 30995), (147, 31037), (159, 31091), (160, 31094), (171, 31154), (174, 31166), (177, 31175), (179, 31202), (181, 31208),

Gene: Stoor_46 Start: 33177, Stop: 33896, Start Num: 45

Candidate Starts for Stoor_46:

(4, 32961), (41, 33165), (Start: 45 @33177 has 37 MA's), (48, 33201), (49, 33210), (61, 33291), (64, 33318), (67, 33330), (69, 33342), (72, 33351), (81, 33390), (89, 33426), (93, 33453), (100, 33477),

(105, 33489), (111, 33507), (126, 33594), (127, 33600), (136, 33660), (143, 33684), (159, 33759), (169, 33810), (171, 33822), (175, 33837), (177, 33843), (181, 33876), (183, 33882),

Gene: Stromboli_46 Start: 33039, Stop: 33758, Start Num: 46

Candidate Starts for Stromboli_46:

(4, 32823), (41, 33027), (Start: 46 @33039 has 15 MA's), (48, 33063), (69, 33204), (72, 33213), (81, 33252), (89, 33288), (103, 33345), (105, 33351), (127, 33462), (138, 33528), (143, 33546), (152, 33591), (159, 33621), (175, 33699), (181, 33738),

Gene: SuMoo_53 Start: 34756, Stop: 35586, Start Num: 40

Candidate Starts for SuMoo_53:

(29, 34720), (Start: 40 @34756 has 13 MA's), (51, 34819), (55, 34843), (109, 35092), (127, 35188), (195, 35545),

Gene: Sue2_45 Start: 32968, Stop: 33750, Start Num: 45

Candidate Starts for Sue2_45:

(Start: 45 @32968 has 37 MA's), (96, 33265), (104, 33292), (127, 33406), (168, 33562), (176, 33604), (178, 33613), (195, 33724),

Gene: SunnyD_48 Start: 31220, Stop: 31960, Start Num: 45

Candidate Starts for SunnyD_48:

(4, 31004), (41, 31208), (Start: 45 @31220 has 37 MA's), (67, 31382), (69, 31394), (72, 31403), (103, 31535), (105, 31541), (126, 31646), (127, 31652), (146, 31745), (159, 31811), (172, 31877), (177, 31895), (181, 31928),

Gene: Swervy_46 Start: 31923, Stop: 32642, Start Num: 45

Candidate Starts for Swervy_46:

(41, 31911), (Start: 45 @31923 has 37 MA's), (48, 31947), (67, 32076), (72, 32097), (105, 32235), (126, 32340), (127, 32346), (138, 32412), (143, 32430), (175, 32583), (181, 32622),

Gene: Tallboi_44 Start: 33369, Stop: 34190, Start Num: 44

Candidate Starts for Tallboi_44:

(Start: 44 @33369 has 46 MA's), (60, 33498), (71, 33561), (119, 33789), (127, 33825), (171, 34020), (182, 34083), (190, 34116), (195, 34164),

Gene: Tbone_44 Start: 32394, Stop: 33212, Start Num: 44

Candidate Starts for Tbone_44:

(Start: 44 @32394 has 46 MA's), (58, 32514), (60, 32523), (81, 32628), (82, 32631), (84, 32640), (107, 32748), (113, 32778), (127, 32856), (168, 33021), (190, 33138), (195, 33186),

Gene: Teagster_48 Start: 32101, Stop: 32853, Start Num: 41

Candidate Starts for Teagster_48:

(41, 32101), (Start: 45 @32113 has 37 MA's), (67, 32275), (69, 32287), (72, 32296), (103, 32428), (105, 32434), (125, 32536), (126, 32539), (127, 32545), (146, 32638), (159, 32704), (172, 32770), (177, 32788), (181, 32821),

Gene: TforTroy_46 Start: 32506, Stop: 33342, Start Num: 44

Candidate Starts for TforTroy_46:

(Start: 44 @32506 has 46 MA's), (60, 32635), (62, 32653), (81, 32740), (82, 32743), (127, 32965), (137, 33028), (166, 33145), (176, 33193), (190, 33268), (195, 33316),

Gene: Tian_43 Start: 33180, Stop: 33998, Start Num: 44

Candidate Starts for Tian_43:

(15, 33087), (17, 33102), (19, 33105), (37, 33171), (Start: 44 @33180 has 46 MA's), (60, 33309), (86, 33441), (127, 33642), (171, 33831), (178, 33861), (195, 33972),

Gene: Tuck_48 Start: 34596, Stop: 35402, Start Num: 44

Candidate Starts for Tuck_48:

(Start: 44 @34596 has 46 MA's), (60, 34725), (84, 34848), (127, 35055), (158, 35166), (190, 35328), (195, 35376),

Gene: TukTuk_46 Start: 31931, Stop: 32650, Start Num: 45

Candidate Starts for TukTuk_46:

(4, 31715), (41, 31919), (Start: 45 @31931 has 37 MA's), (48, 31955), (67, 32084), (72, 32105), (105, 32243), (126, 32348), (127, 32354), (138, 32420), (143, 32438), (175, 32591), (181, 32630),

Gene: Turab_42 Start: 31623, Stop: 32456, Start Num: 36

Candidate Starts for Turab_42:

(36, 31623), (Start: 44 @31635 has 46 MA's), (60, 31764), (65, 31797), (71, 31827), (119, 32055), (127, 32091), (166, 32259), (190, 32382), (195, 32430),

Gene: Tutumahutu_46 Start: 32497, Stop: 33315, Start Num: 44

Candidate Starts for Tutumahutu_46:

(Start: 44 @32497 has 46 MA's), (58, 32617), (60, 32626), (81, 32731), (82, 32734), (84, 32743), (107, 32851), (113, 32881), (127, 32959), (168, 33124), (190, 33241), (195, 33289),

Gene: Tweety19_43 Start: 30544, Stop: 31398, Start Num: 21

Candidate Starts for Tweety19_43:

(11, 30475), (13, 30508), (14, 30511), (Start: 21 @30544 has 1 MA's), (33, 30595), (Start: 44 @30604 has 46 MA's), (60, 30733), (62, 30751), (127, 31039), (131, 31063), (156, 31156), (168, 31207), (178, 31258), (190, 31324), (195, 31372),

Gene: UtzChips_49 Start: 33579, Stop: 34418, Start Num: 40

Candidate Starts for UtzChips_49:

(2, 33321), (6, 33396), (18, 33510), (Start: 40 @33579 has 13 MA's), (80, 33801), (127, 34011), (135, 34062), (137, 34071), (144, 34095), (168, 34206), (195, 34368), (199, 34407),

Gene: VResidence_44 Start: 31752, Stop: 32570, Start Num: 44

Candidate Starts for VResidence_44:

(Start: 44 @31752 has 46 MA's), (60, 31881), (82, 31989), (84, 31998), (113, 32136), (127, 32214), (168, 32379), (173, 32409), (190, 32496), (195, 32544),

Gene: Vitas_43 Start: 29791, Stop: 30516, Start Num: 43

Candidate Starts for Vitas_43:

(3, 29566), (5, 29593), (Start: 43 @29791 has 10 MA's), (Start: 47 @29809 has 1 MA's), (69, 29956), (72, 29965), (75, 29980), (81, 30004), (100, 30091), (105, 30103), (111, 30121), (126, 30208), (127, 30214), (134, 30259), (138, 30280), (143, 30298), (181, 30490), (186, 30505),

Gene: VroomVroom_47 Start: 33099, Stop: 33911, Start Num: 42

Candidate Starts for VroomVroom_47:

(Start: 42 @33099 has 4 MA's), (53, 33183), (58, 33222), (78, 33321), (82, 33333), (92, 33393), (110, 33450), (121, 33525), (127, 33561), (195, 33885),

Gene: VroomVroom_48 Start: 34057, Stop: 35061, Start Num: 30

Candidate Starts for VroomVroom_48:

(Start: 30 @34057 has 2 MA's), (Start: 39 @34087 has 1 MA's), (41, 34093), (63, 34252), (65, 34264), (118, 34501), (129, 34576), (145, 34642), (157, 34678), (167, 34723), (189, 34834), (194, 34879), (195, 34888), (204, 35035),

Gene: WalkingDead_47 Start: 33791, Stop: 34510, Start Num: 46

Candidate Starts for WalkingDead_47:

(4, 33572), (Start: 46 @33791 has 15 MA's), (48, 33815), (49, 33824), (64, 33932), (67, 33944), (69, 33956), (72, 33965), (81, 34004), (89, 34040), (93, 34067), (100, 34091), (105, 34103), (111, 34121), (126, 34208), (127, 34214), (136, 34274), (143, 34298), (159, 34373), (169, 34424), (171, 34436), (175, 34451), (177, 34457), (181, 34490),

Gene: Warda_45 Start: 32571, Stop: 33389, Start Num: 44

Candidate Starts for Warda_45:

(Start: 44 @32571 has 46 MA's), (58, 32691), (60, 32700), (81, 32805), (82, 32808), (84, 32817), (107, 32925), (113, 32955), (127, 33033), (168, 33198), (190, 33315), (195, 33363),

Gene: Wildwest_43 Start: 31833, Stop: 32639, Start Num: 44

Candidate Starts for Wildwest_43:

(7, 31668), (9, 31683), (10, 31689), (Start: 44 @31833 has 46 MA's), (58, 31953), (60, 31962), (80, 32070), (84, 32085), (122, 32268), (127, 32292), (158, 32403), (190, 32565), (195, 32613),

Gene: Yang_44 Start: 31815, Stop: 32630, Start Num: 44

Candidate Starts for Yang_44:

(Start: 44 @31815 has 46 MA's), (57, 31932), (60, 31944), (80, 32052), (84, 32067), (127, 32274), (168, 32433), (171, 32454), (190, 32550), (195, 32598),

Gene: YesChef_45 Start: 32473, Stop: 33291, Start Num: 44

Candidate Starts for YesChef_45:

(Start: 44 @32473 has 46 MA's), (58, 32593), (60, 32602), (81, 32707), (82, 32710), (84, 32719), (107, 32827), (113, 32857), (127, 32935), (168, 33100), (190, 33217), (195, 33265),

Gene: Zeta1847_42 Start: 31621, Stop: 32589, Start Num: 23

Candidate Starts for Zeta1847_42:

(Start: 23 @31621 has 1 MA's), (32, 31654), (Start: 40 @31672 has 13 MA's), (Start: 46 @31687 has 15 MA's), (77, 31882), (80, 31894), (97, 31972), (126, 32104), (127, 32110), (128, 32122), (133, 32152), (150, 32227), (177, 32332), (193, 32431), (195, 32449), (197, 32461),