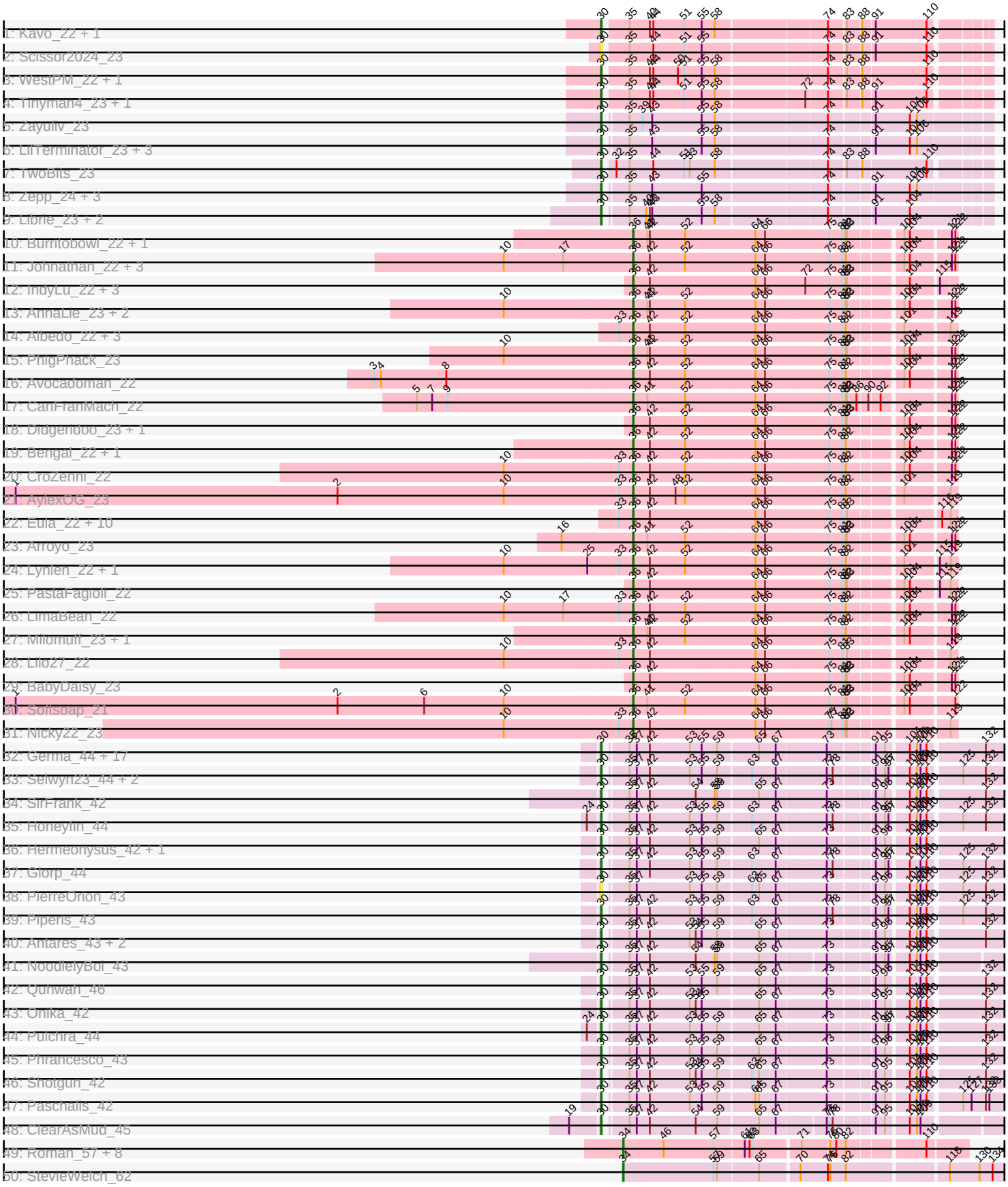
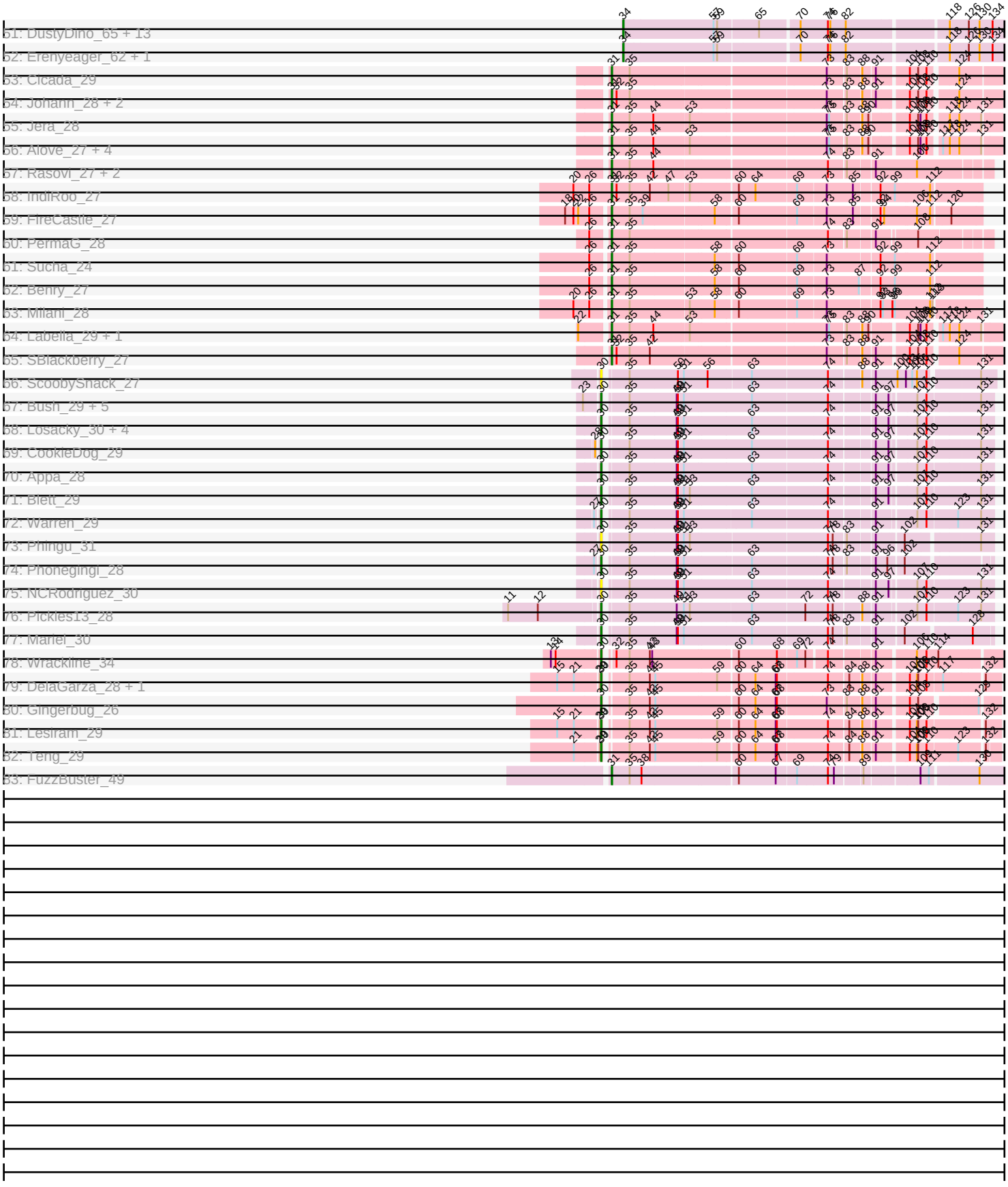
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1: Kavo_22 + 1
2: Scissor2024_23
3: WestPM_22 + 1
4: Tinyman4_23 + 1
5: Zayuliv_23
6: LilTerminator_23 + 3
7: TwoBits_23
8: Zepp_24 + 3
9: Libre_23 + 2
10: Burritobowl_22 + 1
11: Jonnathan_22 + 3
12: IndyLu_22 + 3
13: AnnaLie_23 + 2
14: Albedo_22 + 3
15: PhigPhack_23
16: Avocadoman_22
17: CanFranMach_22
18: Dlogerldoo_23 + 1
19: Bengal_22 + 1
20: CroZenni_22
21: AylexOG_23
22: Eula_22 + 10
23: Arroyo_23
24: Lynlen_22 + 1
25: PastaFagioli_22
26: LimaBean_22
27: Mmomuh_23 + 1
28: Lilo27_22
29: BabyDaisy_23
30: Softsoap_21
31: Nicky22_23
32: Germa_44 + 17
33: Selwyn23_44 + 2
34: SirFrank_42
35: Honeylin_44
36: Hermeonysus_42 + 1
37: Glorp_44
38: PierreOrion_43
39: Piperis_43
40: Antares_43 + 2
41: NoodlelyBoi_43
42: Quhwah_46
43: Onika_42
44: Pulchra_44
45: Phrancesco_43
46: Shotgun_42
47: Paschalis_42
48: ClearAsMud_45
49: Roman_57 + 8
50: StevieWelch_62

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51: DustyDino_65 + 13
52: Erenyeager_62 + 1
53: Cicada_29
54: Johann_28 + 2
55: Jera_28
56: Alove_27 + 4
57: Rasovi_27 + 2
58: IndiRoo_27
59: FireCastle_27
60: PermaG_28
61: Sucha_24
62: Benry_27
63: Mliani_28
64: Labella_29 + 1
65: SBlackberry_27
66: ScoobySnack_27
67: Bush_29 + 5
68: Losacky_30 + 4
69: CookieDog_29
70: Appa_28
71: Blett_29
72: Warren_29
73: Phingu_31
74: Phonegingi_28
75: NCRodriguez_30
76: Pickles13_28
77: Mariel_30
78: Wrackline_34
79: DelaGarza_28 + 1
80: Gingerbug_26
81: Lesiram_29
82: Teng_29
83: FuzzBuster_49

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 339392 Report

This analysis was run 11/14/26 on database version 672.

Pham number 339392 has 183 members, 19 are drafts.

Phages represented in each track:
• Track 1 : Kavo_22, Schimmels22_23
• Track 2 : Scissor2024_23
• Track 3 : WestPM_22, Penta_22
• Track 4 : Tinyman4_23, HerculesXL_23
• Track 5 : Zayuliv_23
• Track 6 : LilTerminator_23, QuadZero_23, Wardwill_25, Hasitha_23
• Track 7 : TwoBits_23
• Track 8 : Zepp_24, Vafari_24, GreenIvy_23, BaronJohn_23
• Track 9 : Librie_23, Fulton_23, CaptainRex_23
• Track 10 : Burritobowl_22, DickRichards_22
• Track 11 : Johnathan_22, Albright_22, Doobus_22, Cashington_22
• Track 12 : IndyLu_22, Finalfrontier_23, Grist_22, Kate33_22
• Track 13 : AnnaLie_23, SansAfet_22, BelmontSKP_23
• Track 14 : Albedo_22, Phisb_22, SirBeanington_22, BubbaBear_22
• Track 15 : PhigPhack_23
• Track 16 : Avocadoman_22
• Track 17 : CanFranMach_22
• Track 18 : Didgeridoo_23, Lahqtemish_22
• Track 19 : Bengal_22, Abigail_22
• Track 20 : CroZenni_22
• Track 21 : AylexOG_23
• Track 22 : Eula_22, SarBear_22, Swervy_22, MsUbiquitous_22, Jabb_22, Slay_22, TukTuk_22, CupcakePrincess_22, Pecas_22, Jovita_22, QMacho_23
• Track 23 : Arroyo_23
• Track 24 : Lynlen_22, Kenzers_22
• Track 25 : PastaFagioli_22
• Track 26 : LimaBean_22
• Track 27 : Milomuff_23, Solea_24
• Track 28 : Lilo27_22
• Track 29 : BabyDaisy_23
• Track 30 : Softsoap_21
• Track 31 : Nicky22_23
• Track 32 : Germa_44, CrazyRich_42, Ramiel05_42, Lucretia_43, Kowalski_42, Busephilis_42, Ganandorf_42, BeagleBug_42, KaiHaiDragon_43, EarickHC_43, Crisis_44, PhedwardCullen_42, Savannah_42, Phorgeous_42, Cranjis_44, Jollipop_43, LittleFortune_44, PiperSansNom_43
• Track 33 : Selwyn23_44, Jefe_43, Yeti_43

• Track 34 : SirFrank_42
• Track 35 : Honeyfin_44
• Track 36 : Hermeonysus_42, Scumberland_44
• Track 37 : Glorp_44
• Track 38 : PierreOrion_43
• Track 39 : Piperis_43
• Track 40 : Antares_43, BrazzalePHS_42, Rockwell_42
• Track 41 : NoodlelyBoi_43
• Track 42 : Quhwah_46
• Track 43 : Onika_42
• Track 44 : Pulchra_44
• Track 45 : Phrancesco_43
• Track 46 : Shotgun_42
• Track 47 : Paschalis_42
• Track 48 : ClearAsMud_45
• Track 49 : Roman_57, Solimine_57, Lupine_55, DejaVu_58, Uterion_60, Hubbs_57, Pavlo_56, Saradis_57, PhillyPhilly_56
• Track 50 : StevieWelch_62
• Track 51 : DustyDino_65, HollowPurple_63, ASegato_61, Necrophoxinus_64, Issa7_61, Lyell_62, Welcome_63, Casablancas_63, Deschain_63, Shroomer_66, Yuma_61, Fork_58, SteakFry_64, RunningBrook_63
• Track 52 : Erenyeager_62, Musetta_62
• Track 53 : Cicada_29
• Track 54 : Johann_28, Olympi_29, Goodman_28
• Track 55 : Jera_28
• Track 56 : Alove_27, AyoTeo_29, TurboVicky_27, Rootkit7_27, Zanella_27
• Track 57 : Rasovi_27, Linayshia_27, Htur_27
• Track 58 : IndiRoo_27
• Track 59 : FireCastle_27
• Track 60 : PermaG_28
• Track 61 : Sucha_24
• Track 62 : Benry_27
• Track 63 : Milani_28
• Track 64 : Labella_29, Typher_29
• Track 65 : SBlackberry_27
• Track 66 : ScoobySnack_27
• Track 67 : Bush_29, Carrillo_30, Antuna_29, Violeta_30, MenE_29, Dropshot_28
• Track 68 : Losacky_30, Jakelyne_30, Guzman_30, Winchester007_30, PhillyJawn_29
• Track 69 : CookieDog_29
• Track 70 : Appa_28
• Track 71 : Blett_29
• Track 72 : Warren_29
• Track 73 : Phingu_31
• Track 74 : Phonegingi_28
• Track 75 : NCRodriguez_30
• Track 76 : Pickles13_28
• Track 77 : Mariel_30
• Track 78 : Wrackline_34
• Track 79 : DelaGarza_28, Sweetums_30
• Track 80 : Gingerbug_26
• Track 81 : Lesiram_29
• Track 82 : Teng_29

• Track 83 : FuzzBuster_49

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

The start number called the most often in the published annotations is 30, it was called in 75 of the 164 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Antares_43, Antuna_29, Appa_28, BaronJohn_23, BeagleBug_42, Blett_29, BrazzalePHS_42, Busephilis_42, Bush_29, CaptainRex_23, Carrillo_30, ClearAsMud_45, CookieDog_29, Cranjis_44, CrazyRich_42, Crisis_44, DelaGarza_28, Dropshot_28, EarickHC_43, Fulton_23, Ganandorf_42, Germa_44, Gingerbug_26, Glorp_44, GreenIvy_23, Guzman_30, Hasitha_23, HerculesXL_23, Hermeonysus_42, Honeyfin_44, Jakelyne_30, Jefe_43, Jollipop_43, KaiHaiDragon_43, Kavo_22, Kowalski_42, Lesiram_29, Librie_23, LilTerminator_23, LittleFortune_44, Losacky_30, Lucretia_43, Mariel_30, MenE_29, NCRodriguez_30, NoodlelyBoi_43, Onika_42, Paschalis_42, Penta_22, PhedwardCullen_42, PhillyJawn_29, Phingu_31, Phonegingi_28, Phorgeous_42, Phrancesco_43, Pickles13_28, PierreOrion_43, PiperSansNom_43, Piperis_43, Pulchra_44, QuadZero_23, Quhwah_46, Ramiel05_42, Rockwell_42, Savannah_42, Schimmels22_23, Scissor2024_23, ScoobySnack_27, Scumberland_44, Selwyn23_44, Shotgun_42, SirFrank_42, Sweetums_30, Teng_29, Tinyman4_23, TwoBits_23, Vafari_24, Violeta_30, Wardwill_25, Warren_29, WestPM_22, Winchester007_30, Wrackline_34, Yeti_43, Zayuliv_23, Zepp_24,

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

Genes that do not have the "Most Annotated" start:
• ASegato_61, Abigail_22, Albedo_22, Albright_22, Alove_27, AnnaLie_23, Arroyo_23, Avocadoman_22, AylexOG_23, AyoTeo_29, BabyDaisy_23, BelmontSKP_23, Bengal_22, Benry_27, BubbaBear_22, Burritobowl_22, CanFranMach_22, Casablancas_63, Cashington_22, Cicada_29, CroZenni_22, CupcakePrincess_22, DejaVu_58, Deschain_63, DickRichards_22, Didgeridoo_23, Doobus_22, DustyDino_65, Erenyeager_62, Eula_22, Finalfrontier_23, FireCastle_27, Fork_58, FuzzBuster_49, Goodman_28, Grist_22, HollowPurple_63, Htur_27, Hubbs_57, IndiRoo_27, IndyLu_22, Issa7_61, Jabb_22, Jera_28, Johann_28, Johnathan_22, Jovita_22, Kate33_22, Kenzers_22, Labella_29, Lahqtemish_22, Lilo27_22, LimaBean_22, Linayshia_27, Lupine_55, Lyell_62, Lynlen_22, Milani_28, Milomuff_23, MsUbiquitous_22, Musetta_62, Necrophoxinus_64, Nicky22_23, Olympi_29, PastaFagioli_22, Pavlo_56, Pecas_22, PermaG_28, PhigPhack_23, PhillyPhilly_56, Phisb_22, QMacho_23, Rasovi_27, Roman_57, Rootkit7_27, RunningBrook_63, SBlackberry_27, SansAfet_22, SarBear_22, Saradis_57, Shroomer_66, SirBeanington_22, Slay_22, Softsoap_21, Solea_24, Solimine_57, SteakFry_64, StevieWelch_62, Sucha_24, Swervy_22, TukTuk_22, TurboVicky_27, Typher_29, Uterion_60, Welcome_63, Yuma_61, Zanella_27,

Summary by start number:

Start 30:
• Found in 86 of 183 (47.0%) of genes in pham
• Manual Annotations of this start: 75 of 164
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antares_43 (EC), Antuna_29 (GA), Appa_28 (GA), BaronJohn_23 (EA5), BeagleBug_42 (EC), Blett_29 (GA), BrazzalePHS_42 (EC), Busephilis_42 (EC), Bush_29 (GA), CaptainRex_23 (EA5), Carrillo_30 (GA), ClearAsMud_45 (EC), CookieDog_29 (GA), Cranjis_44 (EC), CrazyRich_42 (EC), Crisis_44 (EC), DelaGarza_28 (GF), Dropshot_28 (GA), EarickHC_43 (EC), Fulton_23 (EA5), Ganandorf_42 (EC), Germa_44 (EC), Gingerbug_26 (GF), Glorp_44 (EC), GreenIvy_23 (EA5), Guzman_30 (GA), Hasitha_23 (EA5), HerculesXL_23 (EA11), Hermeonysus_42 (EC), Honeyfin_44 (EC), Jakelyne_30 (GA), Jefe_43 (EC), Jollipop_43 (EC), KaiHaiDragon_43 (EC), Kavo_22 (EA11), Kowalski_42 (EC), Lesiram_29 (GF), Librie_23 (EA5), LilTerminator_23 (EA5), LittleFortune_44 (EC), Losacky_30 (GA), Lucretia_43 (EC), Mariel_30 (GA), MenE_29 (GA), NCRodriguez_30 (GA), NoodlelyBoi_43 (EC), Onika_42 (EC), Paschalis_42 (EC), Penta_22 (EA11), PhedwardCullen_42 (EC), PhillyJawn_29 (GA), Phingu_31 (GA), Phonegingi_28 (GA), Phorgeous_42 (EC), Phrancesco_43 (EC), Pickles13_28 (GA), PierreOrion_43 (EC), PiperSansNom_43 (EC), Piperis_43 (EC), Pulchra_44 (EC), QuadZero_23 (EA5), Quhwah_46 (EC), Ramiel05_42 (EC), Rockwell_42 (EC), Savannah_42 (EC), Schimmels22_23 (EA11), Scissor2024_23 (EA11), ScoobySnack_27 (GA), Scumberland_44 (EC), Selwyn23_44 (EC), Shotgun_42 (EC), SirFrank_42 (EC), Sweetums_30 (GF), Teng_29 (GF), Tinyman4_23 (EA11), TwoBits_23 (EA5), Vafari_24 (EA5), Violeta_30 (GA), Wardwill_25 (EA5), Warren_29 (GA), WestPM_22 (EA11), Winchester007_30 (GA), Wrackline_34 (GF), Yeti_43 (EC), Zayuliv_23 (EA5), Zepp_24 (EA5),

Start 31:
• Found in 23 of 183 (12.6%) of genes in pham
• Manual Annotations of this start: 22 of 164
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alove_27 (EJ), AyoTeo_29 (EJ), Benry_27 (EJ), Cicada_29 (EJ), FireCastle_27 (EJ), FuzzBuster_49 (GM), Goodman_28 (EJ), Htur_27 (EJ), IndiRoo_27 (EJ), Jera_28 (EJ), Johann_28 (EJ), Labella_29 (EJ), Linayshia_27 (EJ), Milani_28 (EJ), Olympi_29 (EJ), PermaG_28 (EJ), Rasovi_27 (EJ), Rootkit7_27 (EJ), SBlackberry_27 (EJ), Sucha_24 (EJ), TurboVicky_27 (EJ), Typher_29 (EJ), Zanella_27 (EJ),

Start 34:
• Found in 26 of 183 (14.2%) of genes in pham
• Manual Annotations of this start: 22 of 164
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASegato_61 (ED2), Casablancas_63 (ED2), DejaVu_58 (ED1), Deschain_63 (ED2), DustyDino_65 (ED2), Erenyeager_62 (ED2), Fork_58 (ED2), HollowPurple_63 (ED2), Hubbs_57 (ED1), Issa7_61 (ED2), Lupine_55 (ED1), Lyell_62 (ED2), Musetta_62 (ED2), Necrophoxinus_64 (ED2), Pavlo_56 (ED1), PhillyPhilly_56 (ED1), Roman_57 (ED1), RunningBrook_63 (ED2), Saradis_57 (ED1), Shroomer_66 (ED2), Solimine_57 (ED1), SteakFry_64 (ED2), StevieWelch_62 (ED2), Uterion_60 (ED1), Welcome_63 (ED2), Yuma_61 (ED2),

Start 36:
• Found in 48 of 183 (26.2%) of genes in pham
• Manual Annotations of this start: 45 of 164

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abigail_22 (EB), Albedo_22 (EB), Albright_22 (EB), AnnaLie_23 (EB), Arroyo_23 (EB), Avocadoman_22 (EB), AylexOG_23 (EB), BabyDaisy_23 (EB), BelmontSKP_23 (EB), Bengal_22 (EB), BubbaBear_22 (EB), Burritobowl_22 (EB), CanFranMach_22 (EB), Cashington_22 (EB), CroZenni_22 (EB), CupcakePrincess_22 (EB), DickRichards_22 (EB), Didgeridoo_23 (EB), Doobus_22 (EB), Eula_22 (EB), Finalfrontier_23 (EB), Grist_22 (EB), IndyLu_22 (EB), Jabb_22 (EB), Johnathan_22 (EB), Jovita_22 (EB), Kate33_22 (EB), Kenzers_22 (EB), Lahqtemish_22 (EB), Lilo27_22 (EB), LimaBean_22 (EB), Lynlen_22 (EB), Milomuff_23 (EB), MsUbiquitous_22 (EB), Nicky22_23 (EB), PastaFagioli_22 (EB), Pecas_22 (EB), PhigPhack_23 (EB), Phisb_22 (EB), QMacho_23 (EB), SansAfet_22 (EB), SarBear_22 (EB), SirBeanington_22 (EB), Slay_22 (EB), Softsoap_21 (EB), Solea_24 (EB), Swervy_22 (EB), TukTuk_22 (EB),

Summary by clusters:

There are 10 clusters represented in this pham: EA11, EJ, EC, EB, ED2, GF, ED1, GA, GM, EA5,

Info for manual annotations of cluster EA11:
•Start number 30 was manually annotated 5 times for cluster EA11.

Info for manual annotations of cluster EA5:
•Start number 30 was manually annotated 12 times for cluster EA5.

Info for manual annotations of cluster EB:
•Start number 36 was manually annotated 45 times for cluster EB.

Info for manual annotations of cluster EC:
•Start number 30 was manually annotated 35 times for cluster EC.

Info for manual annotations of cluster ED1:
•Start number 34 was manually annotated 7 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 34 was manually annotated 15 times for cluster ED2.

Info for manual annotations of cluster EJ:
•Start number 31 was manually annotated 21 times for cluster EJ.

Info for manual annotations of cluster GA:
•Start number 30 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 30 was manually annotated 6 times for cluster GF.

Info for manual annotations of cluster GM:
•Start number 31 was manually annotated 1 time for cluster GM.

Gene Information:

Gene: ASegato_61 Start: 34711, Stop: 35643, Start Num: 34
Candidate Starts for ASegato_61:
(Start: 34 @34711 has 22 MA's), (57, 34936), (59, 34945), (65, 35041), (70, 35128), (74, 35197), (76, 35203), (82, 35242), (118, 35467), (126, 35515), (130, 35542), (134, 35575),

Gene: Abigail_22 Start: 18166, Stop: 18915, Start Num: 36
Candidate Starts for Abigail_22:
(Start: 36 @18166 has 45 MA's), (42, 18208), (52, 18292), (64, 18460), (66, 18484), (75, 18640), (81, 18673), (82, 18682), (101, 18799), (104, 18811), (121, 18901), (122, 18910),

Gene: Albedo_22 Start: 18037, Stop: 18792, Start Num: 36
Candidate Starts for Albedo_22:
(33, 18001), (Start: 36 @18037 has 45 MA's), (42, 18079), (52, 18163), (64, 18331), (66, 18355), (75, 18514), (81, 18547), (82, 18556), (101, 18673), (119, 18775),

Gene: Albright_22 Start: 17924, Stop: 18673, Start Num: 36
Candidate Starts for Albright_22:
(10, 17600), (17, 17750), (Start: 36 @17924 has 45 MA's), (42, 17966), (52, 18050), (64, 18218), (66, 18242), (75, 18398), (81, 18431), (82, 18440), (101, 18557), (104, 18569), (121, 18659), (122, 18668),

Gene: Alove_27 Start: 20472, Stop: 21353, Start Num: 31
Candidate Starts for Alove_27:
(Start: 31 @20472 has 22 MA's), (35, 20517), (44, 20577), (53, 20661), (73, 20985), (75, 20991), (83, 21027), (88, 21060), (90, 21075), (104, 21153), (108, 21174), (109, 21180), (110, 21195), (117, 21219), (118, 21234), (124, 21258), (131, 21309),

Gene: AnnaLie_23 Start: 18353, Stop: 19102, Start Num: 36
Candidate Starts for AnnaLie_23:
(10, 18029), (Start: 36 @18353 has 45 MA's), (41, 18389), (42, 18395), (52, 18479), (64, 18647), (66, 18671), (75, 18827), (81, 18860), (82, 18869), (83, 18872), (101, 18986), (104, 18998), (121, 19088), (122, 19097),

Gene: Antares_43 Start: 30215, Stop: 31120, Start Num: 30
Candidate Starts for Antares_43:
(Start: 30 @30215 has 75 MA's), (35, 30260), (37, 30278), (42, 30311), (53, 30410), (54, 30425), (55, 30437), (59, 30476), (65, 30572), (67, 30614), (73, 30731), (91, 30833), (95, 30854), (104, 30899), (106, 30917), (109, 30926), (110, 30941), (132, 31067),

Gene: Antuna_29 Start: 18621, Stop: 19514, Start Num: 30
Candidate Starts for Antuna_29:
(23, 18588), (Start: 30 @18621 has 75 MA's), (35, 18669), (49, 18786), (50, 18789), (51, 18804), (63, 18972), (74, 19152), (91, 19251), (97, 19281), (107, 19335), (110, 19356), (131, 19482),

Gene: Appa_28 Start: 18486, Stop: 19379, Start Num: 30
Candidate Starts for Appa_28:
(Start: 30 @18486 has 75 MA's), (35, 18534), (49, 18651), (50, 18654), (51, 18669), (63, 18837), (74, 19017), (91, 19116), (97, 19146), (107, 19200), (110, 19221), (131, 19347),

Gene: Arroyo_23 Start: 18553, Stop: 19302, Start Num: 36
Candidate Starts for Arroyo_23:
(16, 18376), (Start: 36 @18553 has 45 MA's), (41, 18589), (52, 18679), (64, 18847), (66, 18871), (75, 19027), (81, 19060), (82, 19069), (83, 19072), (101, 19186), (104, 19198), (121, 19288), (122, 19297),

Gene: Avocadoman_22 Start: 18108, Stop: 18857, Start Num: 36
Candidate Starts for Avocadoman_22:
(3, 17457), (4, 17475), (8, 17640), (Start: 36 @18108 has 45 MA's), (42, 18150), (52, 18234), (64, 18402), (66, 18426), (75, 18582), (81, 18615), (82, 18624), (101, 18741), (104, 18753), (121, 18843), (122, 18852),

Gene: AylexOG_23 Start: 18374, Stop: 19129, Start Num: 36
Candidate Starts for AylexOG_23:
(1, 16817), (2, 17630), (10, 18050), (33, 18338), (Start: 36 @18374 has 45 MA's), (42, 18416), (48, 18476), (52, 18500), (64, 18668), (66, 18692), (75, 18851), (81, 18884), (82, 18893), (101, 19010), (119, 19112),

Gene: AyoTeo_29 Start: 20601, Stop: 21482, Start Num: 31
Candidate Starts for AyoTeo_29:
(Start: 31 @20601 has 22 MA's), (35, 20646), (44, 20706), (53, 20790), (73, 21114), (75, 21120), (83, 21156), (88, 21189), (90, 21204), (104, 21282), (108, 21303), (109, 21309), (110, 21324), (117, 21348), (118, 21363), (124, 21387), (131, 21438),

Gene: BabyDaisy_23 Start: 18169, Stop: 18918, Start Num: 36
Candidate Starts for BabyDaisy_23:
(Start: 36 @18169 has 45 MA's), (42, 18211), (64, 18463), (66, 18487), (75, 18643), (81, 18676), (82, 18685), (83, 18688), (101, 18802), (104, 18814), (121, 18904), (122, 18913),

Gene: BaronJohn_23 Start: 17331, Stop: 18200, Start Num: 30
Candidate Starts for BaronJohn_23:
(Start: 30 @17331 has 75 MA's), (35, 17376), (43, 17433), (55, 17553), (74, 17847), (91, 17943), (104, 18024), (106, 18042),

Gene: BeagleBug_42 Start: 29996, Stop: 30901, Start Num: 30
Candidate Starts for BeagleBug_42:
(Start: 30 @29996 has 75 MA's), (35, 30041), (37, 30059), (42, 30092), (53, 30191), (55, 30218), (59, 30257), (65, 30353), (67, 30395), (73, 30512), (91, 30614), (95, 30635), (104, 30680), (106, 30698), (109, 30707), (110, 30722), (132, 30848),

Gene: BelmontSKP_23 Start: 18353, Stop: 19102, Start Num: 36
Candidate Starts for BelmontSKP_23:
(10, 18029), (Start: 36 @18353 has 45 MA's), (41, 18389), (42, 18395), (52, 18479), (64, 18647), (66, 18671), (75, 18827), (81, 18860), (82, 18869), (83, 18872), (101, 18986), (104, 18998), (121, 19088), (122, 19097),

Gene: Bengal_22 Start: 17941, Stop: 18690, Start Num: 36
Candidate Starts for Bengal_22:
(Start: 36 @17941 has 45 MA's), (42, 17983), (52, 18067), (64, 18235), (66, 18259), (75, 18415), (81, 18448), (82, 18457), (101, 18574), (104, 18586), (121, 18676), (122, 18685),

Gene: Benry_27 Start: 19174, Stop: 20046, Start Num: 31
Candidate Starts for Benry_27:
(26, 19132), (Start: 31 @19174 has 22 MA's), (35, 19219), (58, 19423), (60, 19474), (69, 19609), (73, 19678), (87, 19759), (92, 19801), (99, 19837), (112, 19924),

Gene: Blett_29 Start: 18633, Stop: 19526, Start Num: 30
Candidate Starts for Blett_29:

(Start: 30 @18633 has 75 MA's), (35, 18681), (49, 18798), (50, 18801), (51, 18816), (53, 18831), (63, 18984), (74, 19164), (91, 19263), (97, 19293), (107, 19347), (110, 19368), (131, 19494),

Gene: BrazzalePHS_42 Start: 30010, Stop: 30915, Start Num: 30
Candidate Starts for BrazzalePHS_42:
(Start: 30 @30010 has 75 MA's), (35, 30055), (37, 30073), (42, 30106), (53, 30205), (54, 30220), (55, 30232), (59, 30271), (65, 30367), (67, 30409), (73, 30526), (91, 30628), (95, 30649), (104, 30694), (106, 30712), (109, 30721), (110, 30736), (132, 30862),

Gene: BubbaBear_22 Start: 18037, Stop: 18792, Start Num: 36
Candidate Starts for BubbaBear_22:
(33, 18001), (Start: 36 @18037 has 45 MA's), (42, 18079), (52, 18163), (64, 18331), (66, 18355), (75, 18514), (81, 18547), (82, 18556), (101, 18673), (119, 18775),

Gene: Burritobowl_22 Start: 18109, Stop: 18858, Start Num: 36
Candidate Starts for Burritobowl_22:
(Start: 36 @18109 has 45 MA's), (41, 18145), (42, 18151), (52, 18235), (64, 18403), (66, 18427), (75, 18583), (81, 18616), (82, 18625), (83, 18628), (101, 18742), (104, 18754), (121, 18844), (122, 18853),

Gene: Busephilis_42 Start: 29951, Stop: 30856, Start Num: 30
Candidate Starts for Busephilis_42:
(Start: 30 @29951 has 75 MA's), (35, 29996), (37, 30014), (42, 30047), (53, 30146), (55, 30173), (59, 30212), (65, 30308), (67, 30350), (73, 30467), (91, 30569), (95, 30590), (104, 30635), (106, 30653), (109, 30662), (110, 30677), (132, 30803),

Gene: Bush_29 Start: 18611, Stop: 19504, Start Num: 30
Candidate Starts for Bush_29:
(23, 18578), (Start: 30 @18611 has 75 MA's), (35, 18659), (49, 18776), (50, 18779), (51, 18794), (63, 18962), (74, 19142), (91, 19241), (97, 19271), (107, 19325), (110, 19346), (131, 19472),

Gene: CanFranMach_22 Start: 18040, Stop: 18792, Start Num: 36
Candidate Starts for CanFranMach_22:
(5, 17497), (7, 17536), (9, 17575), (Start: 36 @18040 has 45 MA's), (41, 18076), (52, 18166), (64, 18334), (66, 18358), (75, 18517), (81, 18550), (82, 18559), (83, 18562), (86, 18586), (90, 18610), (92, 18634), (121, 18778), (122, 18787),

Gene: CaptainRex_23 Start: 16759, Stop: 17634, Start Num: 30
Candidate Starts for CaptainRex_23:
(Start: 30 @16759 has 75 MA's), (35, 16804), (40, 16846), (42, 16855), (43, 16861), (55, 16981), (58, 17014), (74, 17275), (91, 17371), (104, 17452),

Gene: Carrillo_30 Start: 18590, Stop: 19483, Start Num: 30
Candidate Starts for Carrillo_30:
(23, 18557), (Start: 30 @18590 has 75 MA's), (35, 18638), (49, 18755), (50, 18758), (51, 18773), (63, 18941), (74, 19121), (91, 19220), (97, 19250), (107, 19304), (110, 19325), (131, 19451),

Gene: Casablancas_63 Start: 34451, Stop: 35383, Start Num: 34
Candidate Starts for Casablancas_63:
(Start: 34 @34451 has 22 MA's), (57, 34676), (59, 34685), (65, 34781), (70, 34868), (74, 34937), (76, 34943), (82, 34982), (118, 35207), (126, 35255), (130, 35282), (134, 35315),

Gene: Cashington_22 Start: 17958, Stop: 18707, Start Num: 36
Candidate Starts for Cashington_22:

(10, 17634), (17, 17784), (Start: 36 @17958 has 45 MA's), (42, 18000), (52, 18084), (64, 18252), (66, 18276), (75, 18432), (81, 18465), (82, 18474), (101, 18591), (104, 18603), (121, 18693), (122, 18702),

Gene: Cicada_29 Start: 20694, Stop: 21569, Start Num: 31
Candidate Starts for Cicada_29:
(Start: 31 @20694 has 22 MA's), (35, 20739), (73, 21204), (83, 21246), (88, 21279), (91, 21306), (104, 21372), (108, 21393), (110, 21414), (124, 21477),

Gene: ClearAsMud_45 Start: 30109, Stop: 30996, Start Num: 30
Candidate Starts for ClearAsMud_45:
(19, 30037), (Start: 30 @30109 has 75 MA's), (35, 30154), (37, 30172), (42, 30205), (54, 30319), (59, 30370), (65, 30466), (67, 30508), (73, 30619), (75, 30625), (78, 30634), (91, 30721), (95, 30742), (104, 30787), (106, 30805), (109, 30814),

Gene: CookieDog_29 Start: 18608, Stop: 19501, Start Num: 30
Candidate Starts for CookieDog_29:
(28, 18602), (Start: 30 @18608 has 75 MA's), (35, 18656), (49, 18773), (50, 18776), (51, 18791), (63, 18959), (74, 19139), (91, 19238), (97, 19268), (107, 19322), (110, 19343), (131, 19469),

Gene: Cranjis_44 Start: 30170, Stop: 31075, Start Num: 30
Candidate Starts for Cranjis_44:
(Start: 30 @30170 has 75 MA's), (35, 30215), (37, 30233), (42, 30266), (53, 30365), (55, 30392), (59, 30431), (65, 30527), (67, 30569), (73, 30686), (91, 30788), (95, 30809), (104, 30854), (106, 30872), (109, 30881), (110, 30896), (132, 31022),

Gene: CrazyRich_42 Start: 29979, Stop: 30884, Start Num: 30
Candidate Starts for CrazyRich_42:
(Start: 30 @29979 has 75 MA's), (35, 30024), (37, 30042), (42, 30075), (53, 30174), (55, 30201), (59, 30240), (65, 30336), (67, 30378), (73, 30495), (91, 30597), (95, 30618), (104, 30663), (106, 30681), (109, 30690), (110, 30705), (132, 30831),

Gene: Crisis_44 Start: 29970, Stop: 30875, Start Num: 30
Candidate Starts for Crisis_44:
(Start: 30 @29970 has 75 MA's), (35, 30015), (37, 30033), (42, 30066), (53, 30165), (55, 30192), (59, 30231), (65, 30327), (67, 30369), (73, 30486), (91, 30588), (95, 30609), (104, 30654), (106, 30672), (109, 30681), (110, 30696), (132, 30822),

Gene: CroZenni_22 Start: 17944, Stop: 18696, Start Num: 36
Candidate Starts for CroZenni_22:
(10, 17620), (33, 17908), (Start: 36 @17944 has 45 MA's), (42, 17986), (52, 18070), (64, 18238), (66, 18262), (75, 18421), (81, 18454), (82, 18463), (101, 18580), (104, 18592), (121, 18682), (122, 18691),

Gene: CupcakePrincess_22 Start: 18064, Stop: 18816, Start Num: 36
Candidate Starts for CupcakePrincess_22:
(33, 18028), (Start: 36 @18064 has 45 MA's), (42, 18106), (64, 18358), (66, 18382), (75, 18541), (81, 18574), (83, 18586), (116, 18781), (119, 18799),

Gene: DejaVu_58 Start: 34083, Stop: 34853, Start Num: 34
Candidate Starts for DejaVu_58:
(Start: 34 @34083 has 22 MA's), (46, 34182), (57, 34308), (61, 34377), (62, 34389), (63, 34395), (71, 34503), (76, 34557), (80, 34572), (82, 34593), (110, 34758),

Gene: DelaGarza_28 Start: 19055, Stop: 19942, Start Num: 30

Candidate Starts for DelaGarza_28:
(15, 18953), (21, 18995), (29, 19052), (Start: 30 @19055 has 75 MA's), (35, 19100), (42, 19151), (45, 19163), (59, 19316), (60, 19361), (64, 19403), (67, 19454), (68, 19457), (74, 19577), (84, 19619), (88, 19646), (91, 19673), (104, 19739), (106, 19757), (108, 19760), (110, 19781), (117, 19817), (132, 19907),

Gene: Deschain_63 Start: 35115, Stop: 36047, Start Num: 34
Candidate Starts for Deschain_63:
(Start: 34 @35115 has 22 MA's), (57, 35340), (59, 35349), (65, 35445), (70, 35532), (74, 35601), (76, 35607), (82, 35646), (118, 35871), (126, 35919), (130, 35946), (134, 35979),

Gene: DickRichards_22 Start: 18439, Stop: 19188, Start Num: 36
Candidate Starts for DickRichards_22:
(Start: 36 @18439 has 45 MA's), (41, 18475), (42, 18481), (52, 18565), (64, 18733), (66, 18757), (75, 18913), (81, 18946), (82, 18955), (83, 18958), (101, 19072), (104, 19084), (121, 19174), (122, 19183),

Gene: Didgeridoo_23 Start: 18171, Stop: 18920, Start Num: 36
Candidate Starts for Didgeridoo_23:
(Start: 36 @18171 has 45 MA's), (42, 18213), (52, 18297), (64, 18465), (66, 18489), (75, 18645), (81, 18678), (82, 18687), (83, 18690), (101, 18804), (104, 18816), (121, 18906), (122, 18915),

Gene: Doobus_22 Start: 18275, Stop: 19024, Start Num: 36
Candidate Starts for Doobus_22:
(10, 17951), (17, 18101), (Start: 36 @18275 has 45 MA's), (42, 18317), (52, 18401), (64, 18569), (66, 18593), (75, 18749), (81, 18782), (82, 18791), (101, 18908), (104, 18920), (121, 19010), (122, 19019),

Gene: Dropshot_28 Start: 18483, Stop: 19376, Start Num: 30
Candidate Starts for Dropshot_28:
(23, 18450), (Start: 30 @18483 has 75 MA's), (35, 18531), (49, 18648), (50, 18651), (51, 18666), (63, 18834), (74, 19014), (91, 19113), (97, 19143), (107, 19197), (110, 19218), (131, 19344),

Gene: DustyDino_65 Start: 35309, Stop: 36241, Start Num: 34
Candidate Starts for DustyDino_65:
(Start: 34 @35309 has 22 MA's), (57, 35534), (59, 35543), (65, 35639), (70, 35726), (74, 35795), (76, 35801), (82, 35840), (118, 36065), (126, 36113), (130, 36140), (134, 36173),

Gene: EarickHC_43 Start: 29893, Stop: 30798, Start Num: 30
Candidate Starts for EarickHC_43:
(Start: 30 @29893 has 75 MA's), (35, 29938), (37, 29956), (42, 29989), (53, 30088), (55, 30115), (59, 30154), (65, 30250), (67, 30292), (73, 30409), (91, 30511), (95, 30532), (104, 30577), (106, 30595), (109, 30604), (110, 30619), (132, 30745),

Gene: Erenyeager_62 Start: 34701, Stop: 35633, Start Num: 34
Candidate Starts for Erenyeager_62:
(Start: 34 @34701 has 22 MA's), (57, 34926), (59, 34935), (70, 35118), (74, 35187), (76, 35193), (82, 35232), (118, 35457), (126, 35505), (130, 35532), (134, 35565),

Gene: Eula_22 Start: 18025, Stop: 18777, Start Num: 36
Candidate Starts for Eula_22:
(33, 17989), (Start: 36 @18025 has 45 MA's), (42, 18067), (64, 18319), (66, 18343), (75, 18502), (81, 18535), (83, 18547), (116, 18742), (119, 18760),

Gene: Finalfrontier_23 Start: 18538, Stop: 19284, Start Num: 36

Candidate Starts for Finalfrontier_23:
(Start: 36 @18538 has 45 MA's), (42, 18580), (64, 18832), (66, 18856), (72, 18955), (75, 19012), (81, 19045), (82, 19054), (83, 19057), (104, 19183), (115, 19246),

Gene: FireCastle_27 Start: 20765, Stop: 21634, Start Num: 31
Candidate Starts for FireCastle_27:
(18, 20663), (20, 20684), (22, 20696), (26, 20723), (Start: 31 @20765 has 22 MA's), (35, 20810), (39, 20843), (58, 21014), (60, 21065), (69, 21200), (73, 21269), (85, 21335), (92, 21392), (94, 21401), (106, 21482), (112, 21515), (120, 21557),

Gene: Fork_58 Start: 34361, Stop: 35293, Start Num: 34
Candidate Starts for Fork_58:
(Start: 34 @34361 has 22 MA's), (57, 34586), (59, 34595), (65, 34691), (70, 34778), (74, 34847), (76, 34853), (82, 34892), (118, 35117), (126, 35165), (130, 35192), (134, 35225),

Gene: Fulton_23 Start: 16741, Stop: 17616, Start Num: 30
Candidate Starts for Fulton_23:
(Start: 30 @16741 has 75 MA's), (35, 16786), (40, 16828), (42, 16837), (43, 16843), (55, 16963), (58, 16996), (74, 17257), (91, 17353), (104, 17434),

Gene: FuzzBuster_49 Start: 30502, Stop: 31455, Start Num: 31
Candidate Starts for FuzzBuster_49:
(Start: 31 @30502 has 22 MA's), (35, 30547), (38, 30577), (60, 30808), (67, 30901), (69, 30946), (74, 31021), (79, 31036), (89, 31096), (109, 31219), (111, 31240), (130, 31354),

Gene: Ganandorf_42 Start: 30032, Stop: 30937, Start Num: 30
Candidate Starts for Ganandorf_42:
(Start: 30 @30032 has 75 MA's), (35, 30077), (37, 30095), (42, 30128), (53, 30227), (55, 30254), (59, 30293), (65, 30389), (67, 30431), (73, 30548), (91, 30650), (95, 30671), (104, 30716), (106, 30734), (109, 30743), (110, 30758), (132, 30884),

Gene: Germa_44 Start: 29861, Stop: 30766, Start Num: 30
Candidate Starts for Germa_44:
(Start: 30 @29861 has 75 MA's), (35, 29906), (37, 29924), (42, 29957), (53, 30056), (55, 30083), (59, 30122), (65, 30218), (67, 30260), (73, 30377), (91, 30479), (95, 30500), (104, 30545), (106, 30563), (109, 30572), (110, 30587), (132, 30713),

Gene: Gingerbug_26 Start: 19185, Stop: 20060, Start Num: 30
Candidate Starts for Gingerbug_26:
(Start: 30 @19185 has 75 MA's), (35, 19230), (42, 19281), (45, 19293), (60, 19491), (64, 19533), (67, 19584), (68, 19587), (73, 19701), (83, 19743), (88, 19776), (91, 19803), (104, 19869), (108, 19890), (129, 20016),

Gene: Glorp_44 Start: 30033, Stop: 30938, Start Num: 30
Candidate Starts for Glorp_44:
(Start: 30 @30033 has 75 MA's), (35, 30078), (37, 30096), (42, 30129), (53, 30228), (55, 30255), (59, 30294), (63, 30372), (67, 30432), (73, 30549), (78, 30564), (91, 30651), (95, 30672), (97, 30681), (104, 30717), (109, 30744), (110, 30759), (125, 30828), (132, 30885),

Gene: Goodman_28 Start: 20607, Stop: 21482, Start Num: 31
Candidate Starts for Goodman_28:
(Start: 31 @20607 has 22 MA's), (32, 20619), (35, 20652), (73, 21117), (83, 21159), (88, 21192), (91, 21219), (104, 21285), (108, 21306), (110, 21327), (124, 21390),

Gene: GreenIvy_23 Start: 17333, Stop: 18202, Start Num: 30
Candidate Starts for GreenIvy_23:
(Start: 30 @17333 has 75 MA's), (35, 17378), (43, 17435), (55, 17555), (74, 17849), (91, 17945), (104, 18026), (106, 18044),

Gene: Grist_22 Start: 17996, Stop: 18742, Start Num: 36
Candidate Starts for Grist_22:
(Start: 36 @17996 has 45 MA's), (42, 18038), (64, 18290), (66, 18314), (72, 18413), (75, 18470), (81, 18503), (82, 18512), (83, 18515), (104, 18641), (115, 18704),

Gene: Guzman_30 Start: 18892, Stop: 19785, Start Num: 30
Candidate Starts for Guzman_30:
(Start: 30 @18892 has 75 MA's), (35, 18940), (49, 19057), (50, 19060), (51, 19075), (63, 19243), (74, 19423), (91, 19522), (97, 19552), (107, 19606), (110, 19627), (131, 19753),

Gene: Hasitha_23 Start: 16759, Stop: 17628, Start Num: 30
Candidate Starts for Hasitha_23:
(Start: 30 @16759 has 75 MA's), (35, 16804), (43, 16861), (55, 16981), (58, 17014), (74, 17275), (91, 17371), (104, 17452), (106, 17470),

Gene: HerculesXL_23 Start: 16850, Stop: 17716, Start Num: 30
Candidate Starts for HerculesXL_23:
(Start: 30 @16850 has 75 MA's), (35, 16904), (42, 16955), (44, 16964), (51, 17039), (55, 17081), (58, 17114), (72, 17324), (74, 17375), (83, 17411), (88, 17444), (91, 17471), (110, 17591),

Gene: Hermeonysus_42 Start: 29899, Stop: 30804, Start Num: 30
Candidate Starts for Hermeonysus_42:
(Start: 30 @29899 has 75 MA's), (35, 29944), (37, 29962), (42, 29995), (53, 30094), (55, 30121), (59, 30160), (65, 30256), (67, 30298), (73, 30415), (91, 30517), (95, 30538), (104, 30583), (106, 30601), (109, 30610), (110, 30625),

Gene: HollowPurple_63 Start: 34917, Stop: 35849, Start Num: 34
Candidate Starts for HollowPurple_63:
(Start: 34 @34917 has 22 MA's), (57, 35142), (59, 35151), (65, 35247), (70, 35334), (74, 35403), (76, 35409), (82, 35448), (118, 35673), (126, 35721), (130, 35748), (134, 35781),

Gene: Honeyfin_44 Start: 30220, Stop: 31125, Start Num: 30
Candidate Starts for Honeyfin_44:
(24, 30193), (Start: 30 @30220 has 75 MA's), (35, 30265), (37, 30283), (42, 30316), (53, 30415), (55, 30442), (59, 30481), (63, 30559), (67, 30619), (73, 30736), (78, 30751), (91, 30838), (95, 30859), (97, 30868), (104, 30904), (106, 30922), (109, 30931), (110, 30946), (125, 31015), (132, 31072),

Gene: Htur_27 Start: 20662, Stop: 21537, Start Num: 31
Candidate Starts for Htur_27:
(Start: 31 @20662 has 22 MA's), (35, 20707), (44, 20767), (74, 21178), (83, 21214), (91, 21274), (106, 21373),

Gene: Hubbs_57 Start: 34295, Stop: 35065, Start Num: 34
Candidate Starts for Hubbs_57:
(Start: 34 @34295 has 22 MA's), (46, 34394), (57, 34520), (61, 34589), (62, 34601), (63, 34607), (71, 34715), (76, 34769), (80, 34784), (82, 34805), (110, 34970),

Gene: IndiRoo_27 Start: 19199, Stop: 20071, Start Num: 31
Candidate Starts for IndiRoo_27:
(20, 19103), (26, 19142), (Start: 31 @19199 has 22 MA's), (32, 19211), (35, 19244), (42, 19295), (47, 19340), (53, 19388), (60, 19499), (64, 19538), (69, 19634), (73, 19703), (85, 19769), (92, 19826), (99, 19862), (112, 19949),

Gene: IndyLu_22 Start: 17993, Stop: 18739, Start Num: 36
Candidate Starts for IndyLu_22:
(Start: 36 @17993 has 45 MA's), (42, 18035), (64, 18287), (66, 18311), (72, 18410), (75, 18467), (81, 18500), (82, 18509), (83, 18512), (104, 18638), (115, 18701),

Gene: Issa7_61 Start: 34365, Stop: 35297, Start Num: 34
Candidate Starts for Issa7_61:
(Start: 34 @34365 has 22 MA's), (57, 34590), (59, 34599), (65, 34695), (70, 34782), (74, 34851), (76, 34857), (82, 34896), (118, 35121), (126, 35169), (130, 35196), (134, 35229),

Gene: Jabb_22 Start: 18064, Stop: 18816, Start Num: 36
Candidate Starts for Jabb_22:
(33, 18028), (Start: 36 @18064 has 45 MA's), (42, 18106), (64, 18358), (66, 18382), (75, 18541), (81, 18574), (83, 18586), (116, 18781), (119, 18799),

Gene: Jakelyne_30 Start: 18699, Stop: 19592, Start Num: 30
Candidate Starts for Jakelyne_30:
(Start: 30 @18699 has 75 MA's), (35, 18747), (49, 18864), (50, 18867), (51, 18882), (63, 19050), (74, 19230), (91, 19329), (97, 19359), (107, 19413), (110, 19434), (131, 19560),

Gene: Jefe_43 Start: 29957, Stop: 30862, Start Num: 30
Candidate Starts for Jefe_43:
(Start: 30 @29957 has 75 MA's), (35, 30002), (37, 30020), (42, 30053), (53, 30152), (55, 30179), (59, 30218), (63, 30296), (67, 30356), (73, 30473), (78, 30488), (91, 30575), (95, 30596), (97, 30605), (104, 30641), (106, 30659), (109, 30668), (110, 30683), (125, 30752), (132, 30809),

Gene: Jera_28 Start: 19719, Stop: 20600, Start Num: 31
Candidate Starts for Jera_28:
(Start: 31 @19719 has 22 MA's), (35, 19764), (44, 19824), (53, 19908), (73, 20232), (75, 20238), (83, 20274), (88, 20307), (90, 20322), (104, 20400), (108, 20421), (109, 20427), (110, 20442), (118, 20481), (124, 20505), (131, 20556),

Gene: Johann_28 Start: 20607, Stop: 21482, Start Num: 31
Candidate Starts for Johann_28:
(Start: 31 @20607 has 22 MA's), (32, 20619), (35, 20652), (73, 21117), (83, 21159), (88, 21192), (91, 21219), (104, 21285), (108, 21306), (110, 21327), (124, 21390),

Gene: Johnathan_22 Start: 18048, Stop: 18797, Start Num: 36
Candidate Starts for Johnathan_22:
(10, 17724), (17, 17874), (Start: 36 @18048 has 45 MA's), (42, 18090), (52, 18174), (64, 18342), (66, 18366), (75, 18522), (81, 18555), (82, 18564), (101, 18681), (104, 18693), (121, 18783), (122, 18792),

Gene: Jollipop_43 Start: 30296, Stop: 31201, Start Num: 30
Candidate Starts for Jollipop_43:
(Start: 30 @30296 has 75 MA's), (35, 30341), (37, 30359), (42, 30392), (53, 30491), (55, 30518), (59, 30557), (65, 30653), (67, 30695), (73, 30812), (91, 30914), (95, 30935), (104, 30980), (106, 30998), (109, 31007), (110, 31022), (132, 31148),

Gene: Jovita_22 Start: 18129, Stop: 18881, Start Num: 36
Candidate Starts for Jovita_22:
(33, 18093), (Start: 36 @18129 has 45 MA's), (42, 18171), (64, 18423), (66, 18447), (75, 18606), (81, 18639), (83, 18651), (116, 18846), (119, 18864),

Gene: KaiHaiDragon_43 Start: 29893, Stop: 30798, Start Num: 30
Candidate Starts for KaiHaiDragon_43:
(Start: 30 @29893 has 75 MA's), (35, 29938), (37, 29956), (42, 29989), (53, 30088), (55, 30115), (59, 30154), (65, 30250), (67, 30292), (73, 30409), (91, 30511), (95, 30532), (104, 30577), (106, 30595), (109, 30604), (110, 30619), (132, 30745),

Gene: Kate33_22 Start: 17995, Stop: 18741, Start Num: 36
Candidate Starts for Kate33_22:
(Start: 36 @17995 has 45 MA's), (42, 18037), (64, 18289), (66, 18313), (72, 18412), (75, 18469), (81, 18502), (82, 18511), (83, 18514), (104, 18640), (115, 18703),

Gene: Kavo_22 Start: 16689, Stop: 17552, Start Num: 30
Candidate Starts for Kavo_22:
(Start: 30 @16689 has 75 MA's), (35, 16743), (42, 16794), (44, 16803), (51, 16878), (55, 16920), (58, 16953), (74, 17214), (83, 17250), (88, 17283), (91, 17310), (110, 17430),

Gene: Kenzers_22 Start: 18012, Stop: 18767, Start Num: 36
Candidate Starts for Kenzers_22:
(10, 17688), (25, 17898), (33, 17976), (Start: 36 @18012 has 45 MA's), (42, 18054), (52, 18138), (64, 18306), (66, 18330), (75, 18489), (81, 18522), (82, 18531), (101, 18648), (115, 18723), (119, 18750),

Gene: Kowalski_42 Start: 30006, Stop: 30911, Start Num: 30
Candidate Starts for Kowalski_42:
(Start: 30 @30006 has 75 MA's), (35, 30051), (37, 30069), (42, 30102), (53, 30201), (55, 30228), (59, 30267), (65, 30363), (67, 30405), (73, 30522), (91, 30624), (95, 30645), (104, 30690), (106, 30708), (109, 30717), (110, 30732), (132, 30858),

Gene: Labella_29 Start: 20600, Stop: 21481, Start Num: 31
Candidate Starts for Labella_29:
(22, 20534), (Start: 31 @20600 has 22 MA's), (35, 20645), (44, 20705), (53, 20789), (73, 21113), (75, 21119), (83, 21155), (88, 21188), (90, 21203), (104, 21281), (108, 21302), (109, 21308), (110, 21323), (117, 21347), (118, 21362), (124, 21386), (131, 21437),

Gene: Lahqtemish_22 Start: 18041, Stop: 18790, Start Num: 36
Candidate Starts for Lahqtemish_22:
(Start: 36 @18041 has 45 MA's), (42, 18083), (52, 18167), (64, 18335), (66, 18359), (75, 18515), (81, 18548), (82, 18557), (83, 18560), (101, 18674), (104, 18686), (121, 18776), (122, 18785),

Gene: Lesiram_29 Start: 19024, Stop: 19914, Start Num: 30
Candidate Starts for Lesiram_29:
(15, 18922), (21, 18964), (29, 19021), (Start: 30 @19024 has 75 MA's), (35, 19069), (42, 19120), (45, 19132), (59, 19285), (60, 19330), (64, 19372), (67, 19423), (68, 19426), (74, 19546), (84, 19588), (88, 19615), (91, 19642), (104, 19708), (106, 19726), (108, 19729), (110, 19750), (132, 19876),

Gene: Librie_23 Start: 16759, Stop: 17634, Start Num: 30
Candidate Starts for Librie_23:

(Start: 30 @16759 has 75 MA's), (35, 16804), (40, 16846), (42, 16855), (43, 16861), (55, 16981), (58, 17014), (74, 17275), (91, 17371), (104, 17452),

Gene: LilTerminator_23 Start: 16765, Stop: 17634, Start Num: 30
Candidate Starts for LilTerminator_23:
(Start: 30 @16765 has 75 MA's), (35, 16810), (43, 16867), (55, 16987), (58, 17020), (74, 17281), (91, 17377), (104, 17458), (106, 17476),

Gene: Lilo27_22 Start: 18001, Stop: 18753, Start Num: 36
Candidate Starts for Lilo27_22:
(10, 17677), (33, 17965), (Start: 36 @18001 has 45 MA's), (42, 18043), (64, 18295), (66, 18319), (75, 18478), (81, 18511), (83, 18523), (119, 18736),

Gene: LimaBean_22 Start: 18044, Stop: 18793, Start Num: 36
Candidate Starts for LimaBean_22:
(10, 17720), (17, 17870), (33, 18008), (Start: 36 @18044 has 45 MA's), (42, 18086), (52, 18170), (64, 18338), (66, 18362), (75, 18518), (81, 18551), (82, 18560), (101, 18677), (104, 18689), (121, 18779), (122, 18788),

Gene: Linayshia_27 Start: 20654, Stop: 21529, Start Num: 31
Candidate Starts for Linayshia_27:
(Start: 31 @20654 has 22 MA's), (35, 20699), (44, 20759), (74, 21170), (83, 21206), (91, 21266), (106, 21365),

Gene: LittleFortune_44 Start: 30262, Stop: 31167, Start Num: 30
Candidate Starts for LittleFortune_44:
(Start: 30 @30262 has 75 MA's), (35, 30307), (37, 30325), (42, 30358), (53, 30457), (55, 30484), (59, 30523), (65, 30619), (67, 30661), (73, 30778), (91, 30880), (95, 30901), (104, 30946), (106, 30964), (109, 30973), (110, 30988), (132, 31114),

Gene: Losacky_30 Start: 18763, Stop: 19656, Start Num: 30
Candidate Starts for Losacky_30:
(Start: 30 @18763 has 75 MA's), (35, 18811), (49, 18928), (50, 18931), (51, 18946), (63, 19114), (74, 19294), (91, 19393), (97, 19423), (107, 19477), (110, 19498), (131, 19624),

Gene: Lucretia_43 Start: 29949, Stop: 30854, Start Num: 30
Candidate Starts for Lucretia_43:
(Start: 30 @29949 has 75 MA's), (35, 29994), (37, 30012), (42, 30045), (53, 30144), (55, 30171), (59, 30210), (65, 30306), (67, 30348), (73, 30465), (91, 30567), (95, 30588), (104, 30633), (106, 30651), (109, 30660), (110, 30675), (132, 30801),

Gene: Lupine_55 Start: 33497, Stop: 34267, Start Num: 34
Candidate Starts for Lupine_55:
(Start: 34 @33497 has 22 MA's), (46, 33596), (57, 33722), (61, 33791), (62, 33803), (63, 33809), (71, 33917), (76, 33971), (80, 33986), (82, 34007), (110, 34172),

Gene: Lyell_62 Start: 34620, Stop: 35552, Start Num: 34
Candidate Starts for Lyell_62:
(Start: 34 @34620 has 22 MA's), (57, 34845), (59, 34854), (65, 34950), (70, 35037), (74, 35106), (76, 35112), (82, 35151), (118, 35376), (126, 35424), (130, 35451), (134, 35484),

Gene: Lynlen_22 Start: 18012, Stop: 18767, Start Num: 36
Candidate Starts for Lynlen_22:

(10, 17688), (25, 17898), (33, 17976), (Start: 36 @18012 has 45 MA's), (42, 18054), (52, 18138), (64, 18306), (66, 18330), (75, 18489), (81, 18522), (82, 18531), (101, 18648), (115, 18723), (119, 18750),

Gene: Mariel_30 Start: 19055, Stop: 19933, Start Num: 30
Candidate Starts for Mariel_30:
(Start: 30 @19055 has 75 MA's), (35, 19103), (49, 19220), (50, 19223), (51, 19238), (63, 19406), (74, 19586), (78, 19598), (83, 19622), (91, 19682), (102, 19739), (128, 19886),

Gene: MenE_29 Start: 18751, Stop: 19644, Start Num: 30
Candidate Starts for MenE_29:
(23, 18718), (Start: 30 @18751 has 75 MA's), (35, 18799), (49, 18916), (50, 18919), (51, 18934), (63, 19102), (74, 19282), (91, 19381), (97, 19411), (107, 19465), (110, 19486), (131, 19612),

Gene: Milani_28 Start: 19814, Stop: 20680, Start Num: 31
Candidate Starts for Milani_28:
(20, 19733), (26, 19772), (Start: 31 @19814 has 22 MA's), (35, 19859), (53, 20003), (58, 20063), (60, 20114), (69, 20249), (73, 20315), (92, 20435), (93, 20441), (98, 20465), (99, 20471), (112, 20558), (113, 20564),

Gene: Milomuff_23 Start: 18408, Stop: 19157, Start Num: 36
Candidate Starts for Milomuff_23:
(Start: 36 @18408 has 45 MA's), (41, 18444), (42, 18450), (52, 18534), (64, 18702), (66, 18726), (75, 18882), (81, 18915), (82, 18924), (101, 19041), (104, 19053), (121, 19143), (122, 19152),

Gene: MsUbiquitous_22 Start: 18064, Stop: 18816, Start Num: 36
Candidate Starts for MsUbiquitous_22:
(33, 18028), (Start: 36 @18064 has 45 MA's), (42, 18106), (64, 18358), (66, 18382), (75, 18541), (81, 18574), (83, 18586), (116, 18781), (119, 18799),

Gene: Musetta_62 Start: 35081, Stop: 36013, Start Num: 34
Candidate Starts for Musetta_62:
(Start: 34 @35081 has 22 MA's), (57, 35306), (59, 35315), (70, 35498), (74, 35567), (76, 35573), (82, 35612), (118, 35837), (126, 35885), (130, 35912), (134, 35945),

Gene: NCRodriguez_30 Start: 18800, Stop: 19693, Start Num: 30
Candidate Starts for NCRodriguez_30:
(Start: 30 @18800 has 75 MA's), (35, 18848), (49, 18965), (50, 18968), (51, 18983), (63, 19151), (74, 19331), (91, 19430), (97, 19460), (107, 19514), (110, 19535), (131, 19661),

Gene: Necrophoxinus_64 Start: 35315, Stop: 36247, Start Num: 34
Candidate Starts for Necrophoxinus_64:
(Start: 34 @35315 has 22 MA's), (57, 35540), (59, 35549), (65, 35645), (70, 35732), (74, 35801), (76, 35807), (82, 35846), (118, 36071), (126, 36119), (130, 36146), (134, 36179),

Gene: Nicky22_23 Start: 18472, Stop: 19227, Start Num: 36
Candidate Starts for Nicky22_23:
(10, 18148), (33, 18436), (Start: 36 @18472 has 45 MA's), (42, 18514), (64, 18766), (66, 18790), (75, 18949), (77, 18955), (81, 18982), (82, 18991), (83, 18994), (119, 19210),

Gene: NoodlelyBoi_43 Start: 30319, Stop: 31206, Start Num: 30
Candidate Starts for NoodlelyBoi_43:
(Start: 30 @30319 has 75 MA's), (35, 30364), (37, 30382), (42, 30415), (54, 30529), (58, 30574), (59, 30580), (65, 30676), (67, 30718), (73, 30829), (91, 30931), (95, 30952), (97, 30961), (104, 30997),

(106, 31015), (109, 31024), (110, 31039),

Gene: Olympi_29 Start: 20594, Stop: 21469, Start Num: 31
Candidate Starts for Olympi_29:
(Start: 31 @20594 has 22 MA's), (32, 20606), (35, 20639), (73, 21104), (83, 21146), (88, 21179), (91, 21206), (104, 21272), (108, 21293), (110, 21314), (124, 21377),

Gene: Onika_42 Start: 29981, Stop: 30886, Start Num: 30
Candidate Starts for Onika_42:
(Start: 30 @29981 has 75 MA's), (35, 30026), (37, 30044), (42, 30077), (53, 30176), (54, 30191), (55, 30203), (65, 30338), (67, 30380), (73, 30497), (91, 30599), (95, 30620), (104, 30665), (106, 30683), (109, 30692), (110, 30707), (132, 30833),

Gene: Paschalis_42 Start: 29988, Stop: 30893, Start Num: 30
Candidate Starts for Paschalis_42:
(Start: 30 @29988 has 75 MA's), (35, 30033), (37, 30051), (42, 30084), (53, 30183), (55, 30210), (59, 30249), (64, 30336), (65, 30345), (67, 30387), (73, 30504), (91, 30606), (95, 30627), (104, 30672), (106, 30690), (109, 30699), (110, 30714), (125, 30783), (127, 30804), (132, 30840), (133, 30849),

Gene: PastaFagioli_22 Start: 18029, Stop: 18781, Start Num: 36
Candidate Starts for PastaFagioli_22:
(Start: 36 @18029 has 45 MA's), (42, 18071), (64, 18323), (66, 18347), (75, 18503), (81, 18536), (82, 18545), (83, 18548), (101, 18662), (104, 18674), (115, 18737), (119, 18764),

Gene: Pavlo_56 Start: 34142, Stop: 34912, Start Num: 34
Candidate Starts for Pavlo_56:
(Start: 34 @34142 has 22 MA's), (46, 34241), (57, 34367), (61, 34436), (62, 34448), (63, 34454), (71, 34562), (76, 34616), (80, 34631), (82, 34652), (110, 34817),

Gene: Pecas_22 Start: 18025, Stop: 18777, Start Num: 36
Candidate Starts for Pecas_22:
(33, 17989), (Start: 36 @18025 has 45 MA's), (42, 18067), (64, 18319), (66, 18343), (75, 18502), (81, 18535), (83, 18547), (116, 18742), (119, 18760),

Gene: Penta_22 Start: 16685, Stop: 17551, Start Num: 30
Candidate Starts for Penta_22:
(Start: 30 @16685 has 75 MA's), (35, 16739), (42, 16790), (44, 16799), (50, 16859), (51, 16874), (55, 16916), (58, 16949), (74, 17210), (83, 17246), (88, 17279), (110, 17426),

Gene: PermaG_28 Start: 20672, Stop: 21523, Start Num: 31
Candidate Starts for PermaG_28:
(26, 20633), (Start: 31 @20672 has 22 MA's), (35, 20717), (74, 21185), (83, 21221), (91, 21281), (108, 21368),

Gene: PhedwardCullen_42 Start: 29739, Stop: 30644, Start Num: 30
Candidate Starts for PhedwardCullen_42:
(Start: 30 @29739 has 75 MA's), (35, 29784), (37, 29802), (42, 29835), (53, 29934), (55, 29961), (59, 30000), (65, 30096), (67, 30138), (73, 30255), (91, 30357), (95, 30378), (104, 30423), (106, 30441), (109, 30450), (110, 30465), (132, 30591),

Gene: PhigPhack_23 Start: 18021, Stop: 18770, Start Num: 36
Candidate Starts for PhigPhack_23:

(10, 17697), (Start: 36 @18021 has 45 MA's), (41, 18057), (42, 18063), (52, 18147), (64, 18315), (66, 18339), (75, 18495), (81, 18528), (82, 18537), (83, 18540), (101, 18654), (104, 18666), (121, 18756), (122, 18765),

Gene: PhillyJawn_29 Start: 18483, Stop: 19376, Start Num: 30
Candidate Starts for PhillyJawn_29:
(Start: 30 @18483 has 75 MA's), (35, 18531), (49, 18648), (50, 18651), (51, 18666), (63, 18834), (74, 19014), (91, 19113), (97, 19143), (107, 19197), (110, 19218), (131, 19344),

Gene: PhillyPhilly_56 Start: 33676, Stop: 34446, Start Num: 34
Candidate Starts for PhillyPhilly_56:
(Start: 34 @33676 has 22 MA's), (46, 33775), (57, 33901), (61, 33970), (62, 33982), (63, 33988), (71, 34096), (76, 34150), (80, 34165), (82, 34186), (110, 34351),

Gene: Phingu_31 Start: 18696, Stop: 19577, Start Num: 30
Candidate Starts for Phingu_31:
(Start: 30 @18696 has 75 MA's), (35, 18744), (49, 18861), (50, 18864), (51, 18879), (53, 18894), (74, 19224), (78, 19236), (83, 19260), (91, 19320), (102, 19377), (131, 19545),

Gene: Phisb_22 Start: 18038, Stop: 18793, Start Num: 36
Candidate Starts for Phisb_22:
(33, 18002), (Start: 36 @18038 has 45 MA's), (42, 18080), (52, 18164), (64, 18332), (66, 18356), (75, 18515), (81, 18548), (82, 18557), (101, 18674), (119, 18776),

Gene: Phonegingi_28 Start: 18526, Stop: 19389, Start Num: 30
Candidate Starts for Phonegingi_28:
(27, 18517), (Start: 30 @18526 has 75 MA's), (35, 18574), (49, 18691), (50, 18694), (51, 18709), (63, 18871), (74, 19051), (78, 19063), (83, 19087), (91, 19147), (96, 19174), (102, 19204),

Gene: Phorgeous_42 Start: 29851, Stop: 30756, Start Num: 30
Candidate Starts for Phorgeous_42:
(Start: 30 @29851 has 75 MA's), (35, 29896), (37, 29914), (42, 29947), (53, 30046), (55, 30073), (59, 30112), (65, 30208), (67, 30250), (73, 30367), (91, 30469), (95, 30490), (104, 30535), (106, 30553), (109, 30562), (110, 30577), (132, 30703),

Gene: Phrancesco_43 Start: 30141, Stop: 31046, Start Num: 30
Candidate Starts for Phrancesco_43:
(Start: 30 @30141 has 75 MA's), (35, 30186), (37, 30204), (42, 30237), (53, 30336), (55, 30363), (59, 30402), (65, 30498), (67, 30540), (73, 30657), (91, 30759), (95, 30780), (104, 30825), (106, 30843), (109, 30852), (110, 30867), (132, 30993),

Gene: Pickles13_28 Start: 18911, Stop: 19798, Start Num: 30
Candidate Starts for Pickles13_28:
(11, 18692), (12, 18767), (Start: 30 @18911 has 75 MA's), (35, 18959), (49, 19076), (51, 19094), (53, 19109), (63, 19256), (72, 19385), (74, 19436), (78, 19448), (88, 19508), (91, 19535), (107, 19619), (110, 19640), (123, 19712), (131, 19766),

Gene: PierreOrion_43 Start: 30155, Stop: 31060, Start Num: 30
Candidate Starts for PierreOrion_43:
(Start: 30 @30155 has 75 MA's), (35, 30200), (37, 30218), (53, 30350), (55, 30377), (59, 30416), (63, 30494), (65, 30512), (67, 30554), (73, 30671), (91, 30773), (95, 30794), (104, 30839), (106, 30857), (109, 30866), (110, 30881), (125, 30950), (132, 31007),

Gene: PiperSansNom_43 Start: 30295, Stop: 31200, Start Num: 30
Candidate Starts for PiperSansNom_43:
(Start: 30 @30295 has 75 MA's), (35, 30340), (37, 30358), (42, 30391), (53, 30490), (55, 30517), (59, 30556), (65, 30652), (67, 30694), (73, 30811), (91, 30913), (95, 30934), (104, 30979), (106, 30997), (109, 31006), (110, 31021), (132, 31147),

Gene: Piperis_43 Start: 29974, Stop: 30879, Start Num: 30
Candidate Starts for Piperis_43:
(Start: 30 @29974 has 75 MA's), (35, 30019), (37, 30037), (42, 30070), (53, 30169), (55, 30196), (59, 30235), (63, 30313), (67, 30373), (73, 30490), (78, 30505), (91, 30592), (95, 30613), (97, 30622), (104, 30658), (106, 30676), (109, 30685), (110, 30700), (125, 30769), (132, 30826),

Gene: Pulchra_44 Start: 30371, Stop: 31276, Start Num: 30
Candidate Starts for Pulchra_44:
(24, 30344), (Start: 30 @30371 has 75 MA's), (35, 30416), (37, 30434), (42, 30467), (53, 30566), (55, 30593), (59, 30632), (65, 30728), (67, 30770), (73, 30887), (91, 30989), (95, 31010), (97, 31019), (104, 31055), (106, 31073), (109, 31082), (110, 31097), (132, 31223),

Gene: QMacho_23 Start: 18508, Stop: 19260, Start Num: 36
Candidate Starts for QMacho_23:
(33, 18472), (Start: 36 @18508 has 45 MA's), (42, 18550), (64, 18802), (66, 18826), (75, 18985), (81, 19018), (83, 19030), (116, 19225), (119, 19243),

Gene: QuadZero_23 Start: 16769, Stop: 17638, Start Num: 30
Candidate Starts for QuadZero_23:
(Start: 30 @16769 has 75 MA's), (35, 16814), (43, 16871), (55, 16991), (58, 17024), (74, 17285), (91, 17381), (104, 17462), (106, 17480),

Gene: Quhwah_46 Start: 30603, Stop: 31508, Start Num: 30
Candidate Starts for Quhwah_46:
(Start: 30 @30603 has 75 MA's), (35, 30648), (37, 30666), (42, 30699), (53, 30798), (55, 30825), (59, 30864), (65, 30960), (67, 31002), (73, 31119), (91, 31221), (95, 31242), (104, 31287), (109, 31314), (110, 31329), (132, 31455),

Gene: Ramiel05_42 Start: 30006, Stop: 30911, Start Num: 30
Candidate Starts for Ramiel05_42:
(Start: 30 @30006 has 75 MA's), (35, 30051), (37, 30069), (42, 30102), (53, 30201), (55, 30228), (59, 30267), (65, 30363), (67, 30405), (73, 30522), (91, 30624), (95, 30645), (104, 30690), (106, 30708), (109, 30717), (110, 30732), (132, 30858),

Gene: Rasovi_27 Start: 20662, Stop: 21537, Start Num: 31
Candidate Starts for Rasovi_27:
(Start: 31 @20662 has 22 MA's), (35, 20707), (44, 20767), (74, 21178), (83, 21214), (91, 21274), (106, 21373),

Gene: Rockwell_42 Start: 30006, Stop: 30911, Start Num: 30
Candidate Starts for Rockwell_42:
(Start: 30 @30006 has 75 MA's), (35, 30051), (37, 30069), (42, 30102), (53, 30201), (54, 30216), (55, 30228), (59, 30267), (65, 30363), (67, 30405), (73, 30522), (91, 30624), (95, 30645), (104, 30690), (106, 30708), (109, 30717), (110, 30732), (132, 30858),

Gene: Roman_57 Start: 34143, Stop: 34913, Start Num: 34
Candidate Starts for Roman_57:

(Start: 34 @34143 has 22 MA's), (46, 34242), (57, 34368), (61, 34437), (62, 34449), (63, 34455), (71, 34563), (76, 34617), (80, 34632), (82, 34653), (110, 34818),

Gene: Rootkit7_27 Start: 20472, Stop: 21353, Start Num: 31
Candidate Starts for Rootkit7_27:
(Start: 31 @20472 has 22 MA's), (35, 20517), (44, 20577), (53, 20661), (73, 20985), (75, 20991), (83, 21027), (88, 21060), (90, 21075), (104, 21153), (108, 21174), (109, 21180), (110, 21195), (117, 21219), (118, 21234), (124, 21258), (131, 21309),

Gene: RunningBrook_63 Start: 35309, Stop: 36241, Start Num: 34
Candidate Starts for RunningBrook_63:
(Start: 34 @35309 has 22 MA's), (57, 35534), (59, 35543), (65, 35639), (70, 35726), (74, 35795), (76, 35801), (82, 35840), (118, 36065), (126, 36113), (130, 36140), (134, 36173),

Gene: SBlackberry_27 Start: 20472, Stop: 21347, Start Num: 31
Candidate Starts for SBlackberry_27:
(Start: 31 @20472 has 22 MA's), (32, 20484), (35, 20517), (42, 20568), (73, 20982), (83, 21024), (88, 21057), (91, 21084), (104, 21150), (108, 21171), (110, 21192), (124, 21255),

Gene: SansAfet_22 Start: 17955, Stop: 18704, Start Num: 36
Candidate Starts for SansAfet_22:
(10, 17631), (Start: 36 @17955 has 45 MA's), (41, 17991), (42, 17997), (52, 18081), (64, 18249), (66, 18273), (75, 18429), (81, 18462), (82, 18471), (83, 18474), (101, 18588), (104, 18600), (121, 18690), (122, 18699),

Gene: SarBear_22 Start: 18006, Stop: 18758, Start Num: 36
Candidate Starts for SarBear_22:
(33, 17970), (Start: 36 @18006 has 45 MA's), (42, 18048), (64, 18300), (66, 18324), (75, 18483), (81, 18516), (83, 18528), (116, 18723), (119, 18741),

Gene: Saradis_57 Start: 33735, Stop: 34505, Start Num: 34
Candidate Starts for Saradis_57:
(Start: 34 @33735 has 22 MA's), (46, 33834), (57, 33960), (61, 34029), (62, 34041), (63, 34047), (71, 34155), (76, 34209), (80, 34224), (82, 34245), (110, 34410),

Gene: Savannah_42 Start: 30033, Stop: 30938, Start Num: 30
Candidate Starts for Savannah_42:
(Start: 30 @30033 has 75 MA's), (35, 30078), (37, 30096), (42, 30129), (53, 30228), (55, 30255), (59, 30294), (65, 30390), (67, 30432), (73, 30549), (91, 30651), (95, 30672), (104, 30717), (106, 30735), (109, 30744), (110, 30759), (132, 30885),

Gene: Schimmels22_23 Start: 17213, Stop: 18079, Start Num: 30
Candidate Starts for Schimmels22_23:
(Start: 30 @17213 has 75 MA's), (35, 17267), (42, 17318), (44, 17327), (51, 17402), (55, 17444), (58, 17477), (74, 17738), (83, 17774), (88, 17807), (91, 17834), (110, 17954),

Gene: Scissor2024_23 Start: 16849, Stop: 17715, Start Num: 30
Candidate Starts for Scissor2024_23:
(Start: 30 @16849 has 75 MA's), (35, 16903), (44, 16963), (51, 17038), (55, 17080), (74, 17374), (83, 17410), (88, 17443), (91, 17470), (110, 17590),

Gene: ScoobySnack_27 Start: 18616, Stop: 19515, Start Num: 30
Candidate Starts for ScoobySnack_27:

(Start: 30 @18616 has 75 MA's), (35, 18664), (50, 18784), (51, 18799), (56, 18856), (63, 18961), (74, 19147), (88, 19216), (91, 19243), (100, 19294), (103, 19315), (105, 19330), (106, 19342), (110, 19363), (131, 19477),

Gene: Scumberland_44 Start: 30228, Stop: 31133, Start Num: 30
Candidate Starts for Scumberland_44:
(Start: 30 @30228 has 75 MA's), (35, 30273), (37, 30291), (42, 30324), (53, 30423), (55, 30450), (59, 30489), (65, 30585), (67, 30627), (73, 30744), (91, 30846), (95, 30867), (104, 30912), (106, 30930), (109, 30939), (110, 30954),

Gene: Selwyn23_44 Start: 30205, Stop: 31110, Start Num: 30
Candidate Starts for Selwyn23_44:
(Start: 30 @30205 has 75 MA's), (35, 30250), (37, 30268), (42, 30301), (53, 30400), (55, 30427), (59, 30466), (63, 30544), (67, 30604), (73, 30721), (78, 30736), (91, 30823), (95, 30844), (97, 30853), (104, 30889), (106, 30907), (109, 30916), (110, 30931), (125, 31000), (132, 31057),

Gene: Shotgun_42 Start: 29832, Stop: 30737, Start Num: 30
Candidate Starts for Shotgun_42:
(Start: 30 @29832 has 75 MA's), (35, 29877), (37, 29895), (42, 29928), (53, 30027), (54, 30042), (55, 30054), (59, 30093), (63, 30171), (65, 30189), (67, 30231), (73, 30348), (91, 30450), (95, 30471), (104, 30516), (106, 30534), (109, 30543), (110, 30558), (132, 30684),

Gene: Shroomer_66 Start: 34851, Stop: 35783, Start Num: 34
Candidate Starts for Shroomer_66:
(Start: 34 @34851 has 22 MA's), (57, 35076), (59, 35085), (65, 35181), (70, 35268), (74, 35337), (76, 35343), (82, 35382), (118, 35607), (126, 35655), (130, 35682), (134, 35715),

Gene: SirBeanington_22 Start: 18045, Stop: 18800, Start Num: 36
Candidate Starts for SirBeanington_22:
(33, 18009), (Start: 36 @18045 has 45 MA's), (42, 18087), (52, 18171), (64, 18339), (66, 18363), (75, 18522), (81, 18555), (82, 18564), (101, 18681), (119, 18783),

Gene: SirFrank_42 Start: 29874, Stop: 30779, Start Num: 30
Candidate Starts for SirFrank_42:
(Start: 30 @29874 has 75 MA's), (35, 29919), (37, 29937), (42, 29970), (54, 30084), (58, 30129), (59, 30135), (65, 30231), (67, 30273), (73, 30390), (91, 30492), (95, 30513), (104, 30558), (106, 30576), (109, 30585), (110, 30600), (132, 30726),

Gene: Slay_22 Start: 18548, Stop: 19300, Start Num: 36
Candidate Starts for Slay_22:
(33, 18512), (Start: 36 @18548 has 45 MA's), (42, 18590), (64, 18842), (66, 18866), (75, 19025), (81, 19058), (83, 19070), (116, 19265), (119, 19283),

Gene: Softsoap_21 Start: 17779, Stop: 18528, Start Num: 36
Candidate Starts for Softsoap_21:
(1, 16222), (2, 17035), (6, 17254), (10, 17455), (Start: 36 @17779 has 45 MA's), (41, 17815), (52, 17905), (64, 18073), (66, 18097), (75, 18253), (81, 18286), (82, 18295), (83, 18298), (101, 18412), (104, 18424), (122, 18523),

Gene: Solea_24 Start: 18408, Stop: 19157, Start Num: 36
Candidate Starts for Solea_24:
(Start: 36 @18408 has 45 MA's), (41, 18444), (42, 18450), (52, 18534), (64, 18702), (66, 18726), (75, 18882), (81, 18915), (82, 18924), (101, 19041), (104, 19053), (121, 19143), (122, 19152),

Gene: Solimine_57 Start: 34149, Stop: 34919, Start Num: 34
Candidate Starts for Solimine_57:
(Start: 34 @34149 has 22 MA's), (46, 34248), (57, 34374), (61, 34443), (62, 34455), (63, 34461), (71, 34569), (76, 34623), (80, 34638), (82, 34659), (110, 34824),

Gene: SteakFry_64 Start: 34917, Stop: 35849, Start Num: 34
Candidate Starts for SteakFry_64:
(Start: 34 @34917 has 22 MA's), (57, 35142), (59, 35151), (65, 35247), (70, 35334), (74, 35403), (76, 35409), (82, 35448), (118, 35673), (126, 35721), (130, 35748), (134, 35781),

Gene: StevieWelch_62 Start: 34701, Stop: 35633, Start Num: 34
Candidate Starts for StevieWelch_62:
(Start: 34 @34701 has 22 MA's), (57, 34926), (59, 34935), (65, 35031), (70, 35118), (74, 35187), (76, 35193), (82, 35232), (118, 35457), (130, 35532), (134, 35565),

Gene: Sucha_24 Start: 18171, Stop: 19043, Start Num: 31
Candidate Starts for Sucha_24:
(26, 18129), (Start: 31 @18171 has 22 MA's), (35, 18216), (58, 18420), (60, 18471), (69, 18606), (73, 18675), (92, 18798), (99, 18834), (112, 18921),

Gene: Sweetums_30 Start: 19136, Stop: 20026, Start Num: 30
Candidate Starts for Sweetums_30:
(15, 19034), (21, 19076), (29, 19133), (Start: 30 @19136 has 75 MA's), (35, 19181), (42, 19232), (45, 19244), (59, 19397), (60, 19442), (64, 19484), (67, 19535), (68, 19538), (74, 19658), (84, 19700), (88, 19727), (91, 19754), (104, 19820), (106, 19838), (108, 19841), (110, 19862), (117, 19898), (132, 19988),

Gene: Swervy_22 Start: 18006, Stop: 18758, Start Num: 36
Candidate Starts for Swervy_22:
(33, 17970), (Start: 36 @18006 has 45 MA's), (42, 18048), (64, 18300), (66, 18324), (75, 18483), (81, 18516), (83, 18528), (116, 18723), (119, 18741),

Gene: Teng_29 Start: 19074, Stop: 19958, Start Num: 30
Candidate Starts for Teng_29:
(21, 19014), (29, 19071), (Start: 30 @19074 has 75 MA's), (35, 19119), (42, 19170), (45, 19182), (59, 19335), (60, 19380), (64, 19422), (67, 19473), (68, 19476), (74, 19596), (84, 19638), (88, 19665), (91, 19692), (104, 19758), (106, 19776), (108, 19779), (110, 19800), (123, 19872), (132, 19926),

Gene: Tinyman4_23 Start: 16850, Stop: 17716, Start Num: 30
Candidate Starts for Tinyman4_23:
(Start: 30 @16850 has 75 MA's), (35, 16904), (42, 16955), (44, 16964), (51, 17039), (55, 17081), (58, 17114), (72, 17324), (74, 17375), (83, 17411), (88, 17444), (91, 17471), (110, 17591),

Gene: TukTuk_22 Start: 18064, Stop: 18816, Start Num: 36
Candidate Starts for TukTuk_22:
(33, 18028), (Start: 36 @18064 has 45 MA's), (42, 18106), (64, 18358), (66, 18382), (75, 18541), (81, 18574), (83, 18586), (116, 18781), (119, 18799),

Gene: TurboVicky_27 Start: 20471, Stop: 21352, Start Num: 31
Candidate Starts for TurboVicky_27:
(Start: 31 @20471 has 22 MA's), (35, 20516), (44, 20576), (53, 20660), (73, 20984), (75, 20990), (83, 21026), (88, 21059), (90, 21074), (104, 21152), (108, 21173), (109, 21179), (110, 21194), (117,

21218), (118, 21233), (124, 21257), (131, 21308),

Gene: TwoBits_23 Start: 17147, Stop: 18016, Start Num: 30
Candidate Starts for TwoBits_23:
(Start: 30 @17147 has 75 MA's), (32, 17168), (35, 17201), (44, 17261), (51, 17336), (53, 17351), (58, 17411), (74, 17672), (83, 17708), (88, 17741), (110, 17888),

Gene: Typher_29 Start: 20600, Stop: 21481, Start Num: 31
Candidate Starts for Typher_29:
(22, 20534), (Start: 31 @20600 has 22 MA's), (35, 20645), (44, 20705), (53, 20789), (73, 21113), (75, 21119), (83, 21155), (88, 21188), (90, 21203), (104, 21281), (108, 21302), (109, 21308), (110, 21323), (117, 21347), (118, 21362), (124, 21386), (131, 21437),

Gene: Uterion_60 Start: 34244, Stop: 35014, Start Num: 34
Candidate Starts for Uterion_60:
(Start: 34 @34244 has 22 MA's), (46, 34343), (57, 34469), (61, 34538), (62, 34550), (63, 34556), (71, 34664), (76, 34718), (80, 34733), (82, 34754), (110, 34919),

Gene: Vafari_24 Start: 16754, Stop: 17623, Start Num: 30
Candidate Starts for Vafari_24:
(Start: 30 @16754 has 75 MA's), (35, 16799), (43, 16856), (55, 16976), (74, 17270), (91, 17366), (104, 17447), (106, 17465),

Gene: Violeta_30 Start: 18581, Stop: 19474, Start Num: 30
Candidate Starts for Violeta_30:
(23, 18548), (Start: 30 @18581 has 75 MA's), (35, 18629), (49, 18746), (50, 18749), (51, 18764), (63, 18932), (74, 19112), (91, 19211), (97, 19241), (107, 19295), (110, 19316), (131, 19442),

Gene: Wardwill_25 Start: 16927, Stop: 17796, Start Num: 30
Candidate Starts for Wardwill_25:
(Start: 30 @16927 has 75 MA's), (35, 16972), (43, 17029), (55, 17149), (58, 17182), (74, 17443), (91, 17539), (104, 17620), (106, 17638),

Gene: Warren_29 Start: 18684, Stop: 19574, Start Num: 30
Candidate Starts for Warren_29:
(27, 18675), (Start: 30 @18684 has 75 MA's), (35, 18732), (49, 18849), (50, 18852), (51, 18867), (63, 19029), (74, 19212), (91, 19311), (107, 19395), (110, 19416), (123, 19488), (131, 19542),

Gene: Welcome_63 Start: 35066, Stop: 35998, Start Num: 34
Candidate Starts for Welcome_63:
(Start: 34 @35066 has 22 MA's), (57, 35291), (59, 35300), (65, 35396), (70, 35483), (74, 35552), (76, 35558), (82, 35597), (118, 35822), (126, 35870), (130, 35897), (134, 35930),

Gene: WestPM_22 Start: 16694, Stop: 17560, Start Num: 30
Candidate Starts for WestPM_22:
(Start: 30 @16694 has 75 MA's), (35, 16748), (42, 16799), (44, 16808), (50, 16868), (51, 16883), (55, 16925), (58, 16958), (74, 17219), (83, 17255), (88, 17288), (110, 17435),

Gene: Winchester007_30 Start: 18624, Stop: 19517, Start Num: 30
Candidate Starts for Winchester007_30:
(Start: 30 @18624 has 75 MA's), (35, 18672), (49, 18789), (50, 18792), (51, 18807), (63, 18975), (74, 19155), (91, 19254), (97, 19284), (107, 19338), (110, 19359), (131, 19485),

Gene: Wrackline_34 Start: 20389, Stop: 21276, Start Num: 30
Candidate Starts for Wrackline_34:
(13, 20272), (14, 20284), (Start: 30 @20389 has 75 MA's), (32, 20401), (35, 20434), (42, 20485), (43, 20491), (60, 20695), (68, 20791), (69, 20833), (72, 20854), (74, 20899), (91, 20998), (106, 21082), (110, 21106), (114, 21136),

Gene: Yeti_43 Start: 30007, Stop: 30912, Start Num: 30
Candidate Starts for Yeti_43:
(Start: 30 @30007 has 75 MA's), (35, 30052), (37, 30070), (42, 30103), (53, 30202), (55, 30229), (59, 30268), (63, 30346), (67, 30406), (73, 30523), (78, 30538), (91, 30625), (95, 30646), (97, 30655), (104, 30691), (106, 30709), (109, 30718), (110, 30733), (125, 30802), (132, 30859),

Gene: Yuma_61 Start: 34635, Stop: 35567, Start Num: 34
Candidate Starts for Yuma_61:
(Start: 34 @34635 has 22 MA's), (57, 34860), (59, 34869), (65, 34965), (70, 35052), (74, 35121), (76, 35127), (82, 35166), (118, 35391), (126, 35439), (130, 35466), (134, 35499),

Gene: Zanella_27 Start: 20474, Stop: 21355, Start Num: 31
Candidate Starts for Zanella_27:
(Start: 31 @20474 has 22 MA's), (35, 20519), (44, 20579), (53, 20663), (73, 20987), (75, 20993), (83, 21029), (88, 21062), (90, 21077), (104, 21155), (108, 21176), (109, 21182), (110, 21197), (117, 21221), (118, 21236), (124, 21260), (131, 21311),

Gene: Zayuliv_23 Start: 17355, Stop: 18224, Start Num: 30
Candidate Starts for Zayuliv_23:
(Start: 30 @17355 has 75 MA's), (35, 17400), (39, 17433), (43, 17457), (55, 17577), (58, 17610), (74, 17871), (91, 17967), (104, 18048), (106, 18066),

Gene: Zepp_24 Start: 16753, Stop: 17622, Start Num: 30
Candidate Starts for Zepp_24:
(Start: 30 @16753 has 75 MA's), (35, 16798), (43, 16855), (55, 16975), (74, 17269), (91, 17365), (104, 17446), (106, 17464),