





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 311326 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311326 has 151 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Kittykat_11
- Track 2 : Cholula_15, RAP15_15, Wawa_15, Potatoes_15, Dino_15, Jumboset_15, Rozby_15, Savage2526_15, Glenn_15, Vallejo_15, Immaculata_15, MeganNoll_15, Kalizoi_15, BrotherBLo_15, Zorro_15
- Track 3 : Makoto_11
- Track 4 : EstebanJulior_11, MamaPearl_11
- Track 5 : BigMack_11
- Track 6 : Oxynfrius_15, Lakshmi_15, Albanese_15, Greenhouse_15, Nubia_15
- Track 7 : Scuttle_15, Carpal_15, Fluke_15, MrGloopy_15, Riverdale_15, Beethoven_15
- Track 8 : Sergei_11, KingBob_11, Herb_11, Temper16_11, Maria1952_11, Daiboju_11
- Track 9 : CristinaYang_11, Lasagna_11, LilStuart_11, Christian_11, Nancia_11
- Track 10 : AustinPowers_11
- Track 11 : Suppi_15, Canowicakte_15, Wayne_15, MrBoss_15, CallieOMalley_15
- Track 12 : Moki_11, Huckleberry_11, HeadNerd_11, Bennie_11
- Track 13 : Eunoia_11, Aledel_11, OMalley_11, Riovina_11
- Track 14 : HunterDalle_11, Vulture_11
- Track 15 : Urla_11
- Track 16 : Litotes_15
- Track 17 : Korra_15
- Track 18 : GreenHearts_15
- Track 19 : DrRobert_11, Pterodactyl_11
- Track 20 : DreamTeam_11, Gisselle_11
- Track 21 : OurGirlNessie_11, PitaDog_11, Lucy_11, Lennox_11
- Track 22 : Joann_15
- Track 23 : RcigaStruga_15, Huntingdon_15
- Track 24 : Chridison_11
- Track 25 : PartyCup_15
- Track 26 : Graynor_15
- Track 27 : Bodacious_11, ChewChew_11
- Track 28 : Pumancara_11
- Track 29 : PinkFriday_11
- Track 30 : TattModd_15
- Track 31 : Preamble_11
- Track 32 : AppleCider_15
- Track 33 : Supakev_11

- Track 34 : Misaeng_15
- Track 35 : WonderBoy_11
- Track 36 : Swervy_12, Slay_12, SarBear_12
- Track 37 : DirtyBubble_12
- Track 38 : Jovita_12
- Track 39 : BubbaBear_12, Phisb_12
- Track 40 : Cashington_12
- Track 41 : Abigail_12, Doobus_12, Albright_12, Avacadoman_12, LimaBean_12
- Track 42 : Bengal_12, Johnathan_12
- Track 43 : MsUbiquitous_12, AylexOG_13, CupcakePrincess_12, TukTuk_12, Finalfrontier_13, Jabb_12
- Track 44 : Arroyo_13, PhigPhack_12, Softsoap_12, SansAfet_12, Solea_13, Milomuff_13
- Track 45 : Lynlen_12, Kenzers_12
- Track 46 : DickRichards_12, BelmontSKP_13, CroZenni_12, AnnaLie_13
- Track 47 : SirBeanington_12
- Track 48 : Albedo_12
- Track 49 : Kate33_12, BabyDaisy_13, Lahqtemish_12, IndyLu_12, Didgeridoo_13, PastaFagioli_12
- Track 50 : Akino08_12, Stoor_12, SanaSana_13, Loviatar_12
- Track 51 : Nicky22_13
- Track 52 : Stromboli_12, BabyYoda_12
- Track 53 : Kieran_12, Rona_12, ChiliPepper_12, Kamdara_12, Sharkboy_12, Dismas_12
- Track 54 : PondAmelia_15
- Track 55 : QMacho_13
- Track 56 : WalkingDead_12
- Track 57 : Pecas_12, Eula_12
- Track 58 : Elva_13
- Track 59 : Burritobowl_12
- Track 60 : CanFranMach_12
- Track 61 : Lilo27_12
- Track 62 : Icarian_13
- Track 63 : AvGardian_12

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

The start number called the most often in the published annotations is 15, it was called in 132 of the 141 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abigail_12, Akino08_12, Albedo_12, Albright_12, Aledel_11, AnnaLie_13, AppleCider_15, Arroyo_13, AustinPowers_11, AvGardian_12, Avacadoman_12, AylexOG_13, BabyDaisy_13, BabyYoda_12, Beethoven_15, BelmontSKP_13, Bengal_12, Bennie_11, BigMack_11, Bodacious_11, BrotherBLo_15, BubbaBear_12, Burritobowl_12, CallieOMalley_15, CanFranMach_12, Canowicakte_15, Carpal_15, Cashington_12, ChewChew_11, ChiliPepper_12, Cholula_15, Chridison_11, Christian_11, CristinaYang_11, CroZenni_12, CupcakePrincess_12, Daiboju_11, DickRichards_12, Didgeridoo_13, Dino_15, DirtyBubble_12, Dismas_12, Doobus_12, DrRobert_11, DreamTeam_11, Elva_13, EstebanJulior_11, Eula_12, Eunoia_11,

Finalfrontier_13, Fluke_15, Gisselle_11, Glenn_15, Graynor_15, GreenHearts_15, HeadNerd_11, Herb_11, Huckleberry_11, HunterDalle_11, Icarian_13, Immaculata_15, IndyLu_12, Jabb_12, Johnathan_12, Jovita_12, Jumboset_15, Kalizoi_15, Kamdara_12, Kate33_12, Kenzers_12, Kieran_12, KingBob_11, Kittykat_11, Korra_15, Lahqtemish_12, Lasagna_11, Lennox_11, LilStuart_11, Lilo27_12, LimaBean_12, Litotes_15, Loviatar_12, Lucy_11, Lynlen_12, Makoto_11, MamaPearl_11, Maria1952_11, MeganNoll_15, Milomuff_13, Moki_11, MrBoss_15, MrGloopy_15, MsUbiquitous_12, Nancia_11, Nicky22_13, OMalley_11, OurGirlNessie_11, PartyCup_15, PastaFagioli_12, Pecas_12, PhigPhack_12, Phisb_12, PinkFriday_11, PitaDog_11, PondAmelia_15, Potatoes_15, Preamble_11, Pterodactyl_11, Pumancara_11, QMacho_13, RAP15_15, Riovina_11, Riverdale_15, Rona_12, Rozby_15, SanaSana_13, SansAfet_12, SarBear_12, Savage2526_15, Scuttle_15, Sergei_11, Sharkboy_12, SirBeaington_12, Slay_12, Softsoap_12, Solea_13, Stoor_12, Stromboli_12, Supakev_11, Suppi_15, Swervy_12, TattModd_15, Temper16_11, TukTuk_12, Urla_11, Vallejo_15, Vulture_11, WalkingDead_12, Wawa_15, Wayne_15, WonderBoy_11, Zorro_15,

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

-

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

- Albanese_15, Greenhouse_15, Huntingdon_15, Joann_15, Lakshmi_15, Misaeng_15, Nubia_15, Oxynfrius_15, RcigaStruga_15,

Summary by start number:

Start 14:

- Found in 9 of 151 (6.0%) of genes in pham
- Manual Annotations of this start: 9 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Albanese_15 (AK), Greenhouse_15 (AK), Huntingdon_15 (AK), Joann_15 (AK), Lakshmi_15 (AK), Misaeng_15 (AK), Nubia_15 (AK), Oxynfrius_15 (AK), RcigaStruga_15 (AK),

Start 15:

- Found in 142 of 151 (94.0%) of genes in pham
- Manual Annotations of this start: 132 of 141
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abigail_12 (EB), Akino08_12 (EB), Albedo_12 (EB), Albright_12 (EB), Aledel_11 (AK), AnnaLie_13 (EB), AppleCider_15 (AK), Arroyo_13 (EB), AustinPowers_11 (AK), AvGardian_12 (EB), Avocadoman_12 (EB), AylexOG_13 (EB), BabyDaisy_13 (EB), BabyYoda_12 (EB), Beethoven_15 (AK), BelmontSKP_13 (EB), Bengal_12 (EB), Bennie_11 (AK), BigMack_11 (AK), Bodacious_11 (AK), BrotherBLo_15 (AK), BubbaBear_12 (EB), Burritobowl_12 (EB), CallieOMalley_15 (AK), CanFranMach_12 (EB), Canowicakte_15 (AK), Carpal_15 (AK), Cashington_12 (EB), ChewChew_11 (AK), ChiliPepper_12 (EB), Cholula_15 (AK), Chridison_11 (AK), Christian_11 (AK), CristinaYang_11 (AK), CroZenni_12 (EB), CupcakePrincess_12 (EB), Daiboju_11 (AK), DickRichards_12 (EB), Didgeridoo_13 (EB), Dino_15 (AK), DirtyBubble_12 (EB), Dismas_12 (EB), Doobus_12 (EB), DrRobert_11 (AK), DreamTeam_11 (AK), Elva_13 (EB), EstebanJulior_11 (AK), Eula_12 (EB), Eunoia_11 (AK), Finalfrontier_13 (EB), Fluke_15 (AK), Gisselle_11 (AK), Glenn_15 (AK), Graynor_15 (AK), GreenHearts_15 (AK), HeadNerd_11 (AK), Herb_11 (AK), Huckleberry_11 (AK), HunterDalle_11 (AK),

Icarian_13 (EB), Immaculata_15 (AK), IndyLu_12 (EB), Jabb_12 (EB), Johnathan_12 (EB), Jovita_12 (EB), Jumboset_15 (AK), Kalizoi_15 (AK), Kamdara_12 (EB), Kate33_12 (EB), Kenzers_12 (EB), Kieran_12 (EB), KingBob_11 (AK), Kittykat_11 (AK), Korra_15 (AK), Lahqtemish_12 (EB), Lasagna_11 (AK), Lennox_11 (AK), LilStuart_11 (AK), Lilo27_12 (EB), LimaBean_12 (EB), Litotes_15 (AK), Loviatar_12 (EB), Lucy_11 (AK), Lynlen_12 (EB), Makoto_11 (AK), MamaPearl_11 (AK), Maria1952_11 (AK), MeganNoll_15 (AK), Milomuff_13 (EB), Moki_11 (AK), MrBoss_15 (AK), MrGloopy_15 (AK), MsUbiquitous_12 (EB), Nancia_11 (AK), Nicky22_13 (EB), OMalley_11 (AK), OurGirlNessie_11 (AK), PartyCup_15 (AK), PastaFagioli_12 (EB), Pecas_12 (EB), PhigPhack_12 (EB), Phisb_12 (EB), PinkFriday_11 (AK), PitaDog_11 (AK), PondAmelia_15 (EB), Potatoes_15 (AK), Preamble_11 (AK), Pterodactyl_11 (AK), Pumancara_11 (AK), QMacho_13 (EB), RAP15_15 (AK), Riovina_11 (AK), Riverdale_15 (AK), Rona_12 (EB), Rozby_15 (AK), SanaSana_13 (EB), SansAfet_12 (EB), SarBear_12 (EB), Savage2526_15 (AK), Scuttle_15 (AK), Sergei_11 (AK), Sharkboy_12 (EB), SirBeanington_12 (EB), Slay_12 (EB), Softsoap_12 (EB), Solea_13 (EB), Stoor_12 (EB), Stromboli_12 (EB), Supakev_11 (AK), Suppi_15 (AK), Swervy_12 (EB), TattModd_15 (AK), Temper16_11 (AK), TukTuk_12 (EB), Urla_11 (AK), Vallejo_15 (AK), Vulture_11 (AK), WalkingDead_12 (EB), Wawa_15 (AK), Wayne_15 (AK), WonderBoy_11 (AK), Zorro_15 (AK),

Summary by clusters:

There are 2 clusters represented in this pham: AK, EB,

Info for manual annotations of cluster AK:

- Start number 14 was manually annotated 9 times for cluster AK.
- Start number 15 was manually annotated 75 times for cluster AK.

Info for manual annotations of cluster EB:

- Start number 15 was manually annotated 57 times for cluster EB.

Gene Information:

Gene: Abigail_12 Start: 8439, Stop: 9236, Start Num: 15

Candidate Starts for Abigail_12:

(2, 8139), (5, 8235), (6, 8253), (9, 8355), (13, 8409), (Start: 15 @8439 has 132 MA's), (16, 8445), (21, 8586), (22, 8601), (32, 8793), (35, 8880), (48, 9081), (54, 9177),

Gene: Akino08_12 Start: 8625, Stop: 9422, Start Num: 15

Candidate Starts for Akino08_12:

(Start: 15 @8625 has 132 MA's), (16, 8631), (19, 8709), (21, 8775), (22, 8790), (29, 8949), (32, 8982), (33, 9027), (48, 9267),

Gene: Albanese_15 Start: 10902, Stop: 11810, Start Num: 14

Candidate Starts for Albanese_15:

(Start: 14 @10902 has 9 MA's), (22, 11058), (26, 11163), (27, 11211), (40, 11400), (50, 11574), (51, 11604), (56, 11655), (57, 11661),

Gene: Albedo_12 Start: 8314, Stop: 9111, Start Num: 15

Candidate Starts for Albedo_12:

(5, 8110), (6, 8128), (9, 8230), (13, 8284), (Start: 15 @8314 has 132 MA's), (16, 8320), (21, 8461), (22, 8476), (28, 8632), (32, 8668), (33, 8713), (35, 8755), (48, 8956),

Gene: Albright_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for Albright_12:

(2, 8020), (5, 8116), (6, 8134), (9, 8236), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: Aledel_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for Aledel_11:

(Start: 15 @7979 has 132 MA's), (20, 8090), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (59, 8813),

Gene: AnnaLie_13 Start: 8729, Stop: 9526, Start Num: 15

Candidate Starts for AnnaLie_13:

(5, 8525), (6, 8543), (13, 8699), (Start: 15 @8729 has 132 MA's), (16, 8735), (21, 8876), (22, 8891), (32, 9083), (35, 9170), (48, 9371), (54, 9467),

Gene: AppleCider_15 Start: 10835, Stop: 11743, Start Num: 15

Candidate Starts for AppleCider_15:

(Start: 15 @10835 has 132 MA's), (17, 10856), (22, 10991), (30, 11153), (32, 11183), (37, 11303), (40, 11333), (43, 11348), (45, 11411), (46, 11429), (50, 11507), (51, 11537), (52, 11543), (56, 11588), (57, 11594),

Gene: Arroyo_13 Start: 8790, Stop: 9587, Start Num: 15

Candidate Starts for Arroyo_13:

(5, 8586), (6, 8604), (9, 8706), (13, 8760), (Start: 15 @8790 has 132 MA's), (16, 8796), (21, 8937), (22, 8952), (32, 9144), (35, 9231), (48, 9432), (54, 9528),

Gene: AustinPowers_11 Start: 7980, Stop: 8885, Start Num: 15

Candidate Starts for AustinPowers_11:

(Start: 15 @7980 has 132 MA's), (22, 8136), (30, 8298), (34, 8367), (40, 8475), (43, 8490), (50, 8649), (51, 8679), (53, 8697), (57, 8736), (59, 8814),

Gene: AvGardian_12 Start: 8379, Stop: 9176, Start Num: 15

Candidate Starts for AvGardian_12:

(Start: 15 @8379 has 132 MA's), (16, 8385), (21, 8529), (22, 8544), (29, 8703), (32, 8736), (35, 8823), (36, 8838), (44, 8955), (48, 9021),

Gene: Avocadoman_12 Start: 8378, Stop: 9175, Start Num: 15

Candidate Starts for Avocadoman_12:

(2, 8078), (5, 8174), (6, 8192), (9, 8294), (13, 8348), (Start: 15 @8378 has 132 MA's), (16, 8384), (21, 8525), (22, 8540), (32, 8732), (35, 8819), (48, 9020), (54, 9116),

Gene: AylexOG_13 Start: 8665, Stop: 9462, Start Num: 15

Candidate Starts for AylexOG_13:

(5, 8461), (6, 8479), (13, 8635), (Start: 15 @8665 has 132 MA's), (16, 8671), (21, 8812), (22, 8827), (32, 9019), (35, 9106), (48, 9307),

Gene: BabyDaisy_13 Start: 8547, Stop: 9341, Start Num: 15

Candidate Starts for BabyDaisy_13:

(Start: 15 @8547 has 132 MA's), (21, 8694), (22, 8709), (32, 8901), (33, 8946), (35, 8988), (48, 9186),

Gene: BabyYoda_12 Start: 8571, Stop: 9368, Start Num: 15

Candidate Starts for BabyYoda_12:

(Start: 15 @8571 has 132 MA's), (16, 8577), (21, 8721), (22, 8736), (29, 8895), (32, 8928), (33, 8973), (44, 9147), (48, 9213),

Gene: Beethoven_15 Start: 10796, Stop: 11704, Start Num: 15

Candidate Starts for Beethoven_15:

(Start: 15 @10796 has 132 MA's), (22, 10952), (26, 11057), (30, 11114), (40, 11294), (43, 11309), (50, 11468), (51, 11498), (57, 11555),

Gene: BelmontSKP_13 Start: 8729, Stop: 9526, Start Num: 15

Candidate Starts for BelmontSKP_13:

(5, 8525), (6, 8543), (13, 8699), (Start: 15 @8729 has 132 MA's), (16, 8735), (21, 8876), (22, 8891), (32, 9083), (35, 9170), (48, 9371), (54, 9467),

Gene: Bengal_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for Bengal_12:

(2, 8020), (5, 8116), (6, 8134), (7, 8143), (9, 8236), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: Bennie_11 Start: 7938, Stop: 8846, Start Num: 15

Candidate Starts for Bennie_11:

(Start: 15 @7938 has 132 MA's), (22, 8094), (26, 8199), (30, 8256), (40, 8436), (43, 8451), (46, 8532), (50, 8610), (51, 8640), (53, 8658), (57, 8697),

Gene: BigMack_11 Start: 7938, Stop: 8846, Start Num: 15

Candidate Starts for BigMack_11:

(Start: 15 @7938 has 132 MA's), (22, 8094), (26, 8199), (27, 8247), (29, 8253), (30, 8256), (40, 8436), (43, 8451), (46, 8532), (50, 8610), (51, 8640),

Gene: Bodacious_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Bodacious_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: BrotherBLo_15 Start: 10803, Stop: 11711, Start Num: 15

Candidate Starts for BrotherBLo_15:

(Start: 15 @10803 has 132 MA's), (22, 10959), (26, 11064), (30, 11121), (40, 11301), (43, 11316), (49, 11451), (50, 11475), (51, 11505), (57, 11562),

Gene: BubbaBear_12 Start: 8314, Stop: 9111, Start Num: 15

Candidate Starts for BubbaBear_12:

(3, 8026), (4, 8107), (5, 8110), (6, 8128), (13, 8284), (Start: 15 @8314 has 132 MA's), (16, 8320), (21, 8461), (22, 8476), (28, 8632), (32, 8668), (33, 8713), (35, 8755), (48, 8956),

Gene: Burritobowl_12 Start: 8347, Stop: 9144, Start Num: 15

Candidate Starts for Burritobowl_12:

(1, 7990), (2, 8047), (5, 8143), (6, 8161), (7, 8170), (9, 8263), (13, 8317), (Start: 15 @8347 has 132 MA's), (16, 8353), (21, 8494), (22, 8509), (32, 8701), (35, 8788), (48, 8989), (54, 9085),

Gene: CallieOMalley_15 Start: 10835, Stop: 11743, Start Num: 15

Candidate Starts for CallieOMalley_15:

(Start: 15 @10835 has 132 MA's), (17, 10856), (22, 10991), (30, 11153), (32, 11183), (37, 11303), (39, 11330), (40, 11333), (43, 11348), (45, 11411), (46, 11429), (50, 11507), (51, 11537), (52, 11543), (56, 11588), (57, 11594),

Gene: CanFranMach_12 Start: 8337, Stop: 9134, Start Num: 15

Candidate Starts for CanFranMach_12:

(7, 8160), (13, 8307), (Start: 15 @8337 has 132 MA's), (16, 8343), (22, 8499), (29, 8658), (32, 8691), (35, 8778), (48, 8979), (54, 9075),

Gene: Canowicakte_15 Start: 10870, Stop: 11778, Start Num: 15

Candidate Starts for Canowicakte_15:

(Start: 15 @10870 has 132 MA's), (17, 10891), (22, 11026), (30, 11188), (32, 11218), (37, 11338), (39, 11365), (40, 11368), (43, 11383), (45, 11446), (46, 11464), (50, 11542), (51, 11572), (52, 11578), (56, 11623), (57, 11629),

Gene: Carpal_15 Start: 10803, Stop: 11711, Start Num: 15

Candidate Starts for Carpal_15:

(Start: 15 @10803 has 132 MA's), (22, 10959), (26, 11064), (30, 11121), (40, 11301), (43, 11316), (50, 11475), (51, 11505), (57, 11562),

Gene: Cashington_12 Start: 8337, Stop: 9134, Start Num: 15

Candidate Starts for Cashington_12:

(2, 8037), (6, 8151), (9, 8253), (13, 8307), (Start: 15 @8337 has 132 MA's), (16, 8343), (21, 8484), (22, 8499), (28, 8655), (32, 8691), (33, 8736), (35, 8778), (48, 8979),

Gene: ChewChew_11 Start: 7935, Stop: 8843, Start Num: 15

Candidate Starts for ChewChew_11:

(Start: 15 @7935 has 132 MA's), (22, 8091), (29, 8250), (30, 8253), (40, 8433), (50, 8607), (51, 8637), (57, 8694),

Gene: ChiliPepper_12 Start: 8556, Stop: 9350, Start Num: 15

Candidate Starts for ChiliPepper_12:

(Start: 15 @8556 has 132 MA's), (16, 8562), (18, 8631), (21, 8703), (22, 8718), (32, 8910), (33, 8955), (35, 8997), (36, 9012), (44, 9129), (48, 9195), (55, 9303),

Gene: Cholula_15 Start: 10848, Stop: 11756, Start Num: 15

Candidate Starts for Cholula_15:

(Start: 15 @10848 has 132 MA's), (22, 11004), (26, 11109), (30, 11166), (40, 11346), (43, 11361), (49, 11496), (50, 11520), (51, 11550), (57, 11607),

Gene: Chridison_11 Start: 7980, Stop: 8885, Start Num: 15

Candidate Starts for Chridison_11:

(Start: 15 @7980 has 132 MA's), (22, 8136), (25, 8226), (30, 8298), (34, 8367), (40, 8475), (43, 8490), (50, 8649), (51, 8679), (53, 8697), (57, 8736), (58, 8796), (59, 8814),

Gene: Christian_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Christian_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: CristinaYang_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for CristinaYang_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: CroZenni_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for CroZenni_12:

(5, 8116), (6, 8134), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: CupcakePrincess_12 Start: 8360, Stop: 9157, Start Num: 15

Candidate Starts for CupcakePrincess_12:

(5, 8156), (6, 8174), (13, 8330), (Start: 15 @8360 has 132 MA's), (16, 8366), (21, 8507), (22, 8522), (32, 8714), (35, 8801), (48, 9002),

Gene: Daiboju_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Daiboju_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: DickRichards_12 Start: 8814, Stop: 9611, Start Num: 15

Candidate Starts for DickRichards_12:

(5, 8610), (6, 8628), (13, 8784), (Start: 15 @8814 has 132 MA's), (16, 8820), (21, 8961), (22, 8976), (32, 9168), (35, 9255), (48, 9456), (54, 9552),

Gene: Didgeridoo_13 Start: 8549, Stop: 9343, Start Num: 15

Candidate Starts for Didgeridoo_13:

(Start: 15 @8549 has 132 MA's), (21, 8696), (22, 8711), (32, 8903), (33, 8948), (35, 8990), (48, 9188),

Gene: Dino_15 Start: 10802, Stop: 11710, Start Num: 15

Candidate Starts for Dino_15:

(Start: 15 @10802 has 132 MA's), (22, 10958), (26, 11063), (30, 11120), (40, 11300), (43, 11315), (49, 11450), (50, 11474), (51, 11504), (57, 11561),

Gene: DirtyBubble_12 Start: 8579, Stop: 9376, Start Num: 15

Candidate Starts for DirtyBubble_12:

(Start: 15 @8579 has 132 MA's), (16, 8585), (22, 8744), (29, 8903), (32, 8936), (33, 8981), (44, 9155), (48, 9221),

Gene: Dismas_12 Start: 8556, Stop: 9350, Start Num: 15

Candidate Starts for Dismas_12:

(Start: 15 @8556 has 132 MA's), (16, 8562), (18, 8631), (21, 8703), (22, 8718), (32, 8910), (33, 8955), (35, 8997), (36, 9012), (44, 9129), (48, 9195), (55, 9303),

Gene: Doobus_12 Start: 8551, Stop: 9348, Start Num: 15

Candidate Starts for Doobus_12:

(2, 8251), (5, 8347), (6, 8365), (9, 8467), (13, 8521), (Start: 15 @8551 has 132 MA's), (16, 8557), (21, 8698), (22, 8713), (32, 8905), (35, 8992), (48, 9193), (54, 9289),

Gene: DrRobert_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for DrRobert_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (49, 8584), (50, 8608), (51, 8638), (57, 8695),

Gene: DreamTeam_11 Start: 8003, Stop: 8911, Start Num: 15

Candidate Starts for DreamTeam_11:

(Start: 15 @8003 has 132 MA's), (22, 8159), (26, 8264), (27, 8312), (29, 8318), (30, 8321), (40, 8501), (41, 8510), (46, 8597), (47, 8621), (50, 8675), (51, 8705), (53, 8723), (57, 8762),

Gene: Elva_13 Start: 8634, Stop: 9431, Start Num: 15

Candidate Starts for Elva_13:

(Start: 15 @8634 has 132 MA's), (16, 8640), (19, 8718), (21, 8784), (22, 8799), (29, 8958), (32, 8991), (33, 9036), (35, 9078), (48, 9276), (55, 9384),

Gene: EstebanJulior_11 Start: 7982, Stop: 8890, Start Num: 15

Candidate Starts for EstebanJulior_11:

(11, 7931), (12, 7934), (Start: 15 @7982 has 132 MA's), (17, 8003), (22, 8138), (26, 8243), (30, 8300), (38, 8453), (40, 8480), (44, 8555), (46, 8576), (50, 8654), (51, 8684), (52, 8690), (57, 8741),

Gene: Eula_12 Start: 8321, Stop: 9118, Start Num: 15

Candidate Starts for Eula_12:

(6, 8135), (13, 8291), (Start: 15 @8321 has 132 MA's), (16, 8327), (21, 8468), (22, 8483), (32, 8675), (33, 8720), (35, 8762), (48, 8963),

Gene: Eunoia_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for Eunoia_11:

(Start: 15 @7979 has 132 MA's), (20, 8090), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (59, 8813),

Gene: Finalfrontier_13 Start: 8833, Stop: 9630, Start Num: 15

Candidate Starts for Finalfrontier_13:

(5, 8629), (6, 8647), (13, 8803), (Start: 15 @8833 has 132 MA's), (16, 8839), (21, 8980), (22, 8995), (32, 9187), (35, 9274), (48, 9475),

Gene: Fluke_15 Start: 10844, Stop: 11752, Start Num: 15

Candidate Starts for Fluke_15:

(Start: 15 @10844 has 132 MA's), (22, 11000), (26, 11105), (30, 11162), (40, 11342), (43, 11357), (50, 11516), (51, 11546), (57, 11603),

Gene: Gisselle_11 Start: 8003, Stop: 8911, Start Num: 15

Candidate Starts for Gisselle_11:

(Start: 15 @8003 has 132 MA's), (22, 8159), (26, 8264), (27, 8312), (29, 8318), (30, 8321), (40, 8501), (41, 8510), (46, 8597), (47, 8621), (50, 8675), (51, 8705), (53, 8723), (57, 8762),

Gene: Glenn_15 Start: 10854, Stop: 11762, Start Num: 15

Candidate Starts for Glenn_15:

(Start: 15 @10854 has 132 MA's), (22, 11010), (26, 11115), (30, 11172), (40, 11352), (43, 11367), (49, 11502), (50, 11526), (51, 11556), (57, 11613),

Gene: Graynor_15 Start: 10856, Stop: 11764, Start Num: 15

Candidate Starts for Graynor_15:

(Start: 15 @10856 has 132 MA's), (17, 10877), (20, 10967), (22, 11012), (30, 11174), (32, 11204), (39, 11351), (40, 11354), (43, 11369), (45, 11432), (46, 11450), (50, 11528), (51, 11558), (52, 11564), (56, 11609), (57, 11615),

Gene: GreenHearts_15 Start: 10949, Stop: 11857, Start Num: 15

Candidate Starts for GreenHearts_15:

(8, 10799), (10, 10892), (Start: 15 @10949 has 132 MA's), (22, 11105), (26, 11210), (27, 11258), (40, 11447), (50, 11621), (51, 11651), (56, 11702), (57, 11708),

Gene: Greenhouse_15 Start: 10873, Stop: 11781, Start Num: 14

Candidate Starts for Greenhouse_15:

(Start: 14 @10873 has 9 MA's), (22, 11029), (26, 11134), (27, 11182), (40, 11371), (50, 11545), (51, 11575), (56, 11626), (57, 11632),

Gene: HeadNerd_11 Start: 7938, Stop: 8846, Start Num: 15

Candidate Starts for HeadNerd_11:

(Start: 15 @7938 has 132 MA's), (22, 8094), (26, 8199), (30, 8256), (40, 8436), (43, 8451), (46, 8532), (50, 8610), (51, 8640), (53, 8658), (57, 8697),

Gene: Herb_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Herb_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: Huckleberry_11 Start: 7938, Stop: 8846, Start Num: 15

Candidate Starts for Huckleberry_11:

(Start: 15 @7938 has 132 MA's), (22, 8094), (26, 8199), (30, 8256), (40, 8436), (43, 8451), (46, 8532), (50, 8610), (51, 8640), (53, 8658), (57, 8697),

Gene: HunterDalle_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for HunterDalle_11:

(Start: 15 @7979 has 132 MA's), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (58, 8795), (59, 8813),

Gene: Huntingdon_15 Start: 10859, Stop: 11767, Start Num: 14

Candidate Starts for Huntingdon_15:

(Start: 14 @10859 has 9 MA's), (22, 11015), (26, 11120), (27, 11168), (40, 11357), (41, 11366), (44, 11432), (50, 11531), (51, 11561), (56, 11612), (57, 11618),

Gene: Icarian_13 Start: 8561, Stop: 9358, Start Num: 15

Candidate Starts for Icarian_13:

(Start: 15 @8561 has 132 MA's), (16, 8567), (19, 8645), (21, 8711), (22, 8726), (32, 8918), (33, 8963), (48, 9203),

Gene: Immaculata_15 Start: 10848, Stop: 11756, Start Num: 15

Candidate Starts for Immaculata_15:

(Start: 15 @10848 has 132 MA's), (22, 11004), (26, 11109), (30, 11166), (40, 11346), (43, 11361), (49, 11496), (50, 11520), (51, 11550), (57, 11607),

Gene: IndyLu_12 Start: 8371, Stop: 9165, Start Num: 15

Candidate Starts for IndyLu_12:

(Start: 15 @8371 has 132 MA's), (21, 8518), (22, 8533), (32, 8725), (33, 8770), (35, 8812), (48, 9010),

Gene: Jabb_12 Start: 8360, Stop: 9157, Start Num: 15

Candidate Starts for Jabb_12:

(5, 8156), (6, 8174), (13, 8330), (Start: 15 @8360 has 132 MA's), (16, 8366), (21, 8507), (22, 8522), (32, 8714), (35, 8801), (48, 9002),

Gene: Joann_15 Start: 10851, Stop: 11759, Start Num: 14

Candidate Starts for Joann_15:

(Start: 14 @10851 has 9 MA's), (22, 11007), (26, 11112), (27, 11160), (40, 11349), (45, 11427), (50, 11523), (51, 11553), (56, 11604), (57, 11610),

Gene: Johnathan_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for Johnathan_12:

(2, 8020), (5, 8116), (6, 8134), (7, 8143), (9, 8236), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: Jovita_12 Start: 8422, Stop: 9219, Start Num: 15

Candidate Starts for Jovita_12:

(5, 8218), (6, 8236), (13, 8392), (Start: 15 @8422 has 132 MA's), (16, 8428), (21, 8569), (22, 8584), (32, 8776), (33, 8821), (35, 8863), (48, 9064),

Gene: Jumboset_15 Start: 10797, Stop: 11705, Start Num: 15

Candidate Starts for Jumboset_15:

(Start: 15 @10797 has 132 MA's), (22, 10953), (26, 11058), (30, 11115), (40, 11295), (43, 11310), (49, 11445), (50, 11469), (51, 11499), (57, 11556),

Gene: Kalizoi_15 Start: 10796, Stop: 11704, Start Num: 15

Candidate Starts for Kalizoi_15:

(Start: 15 @10796 has 132 MA's), (22, 10952), (26, 11057), (30, 11114), (40, 11294), (43, 11309), (49, 11444), (50, 11468), (51, 11498), (57, 11555),

Gene: Kamdara_12 Start: 8555, Stop: 9349, Start Num: 15

Candidate Starts for Kamdara_12:

(Start: 15 @8555 has 132 MA's), (16, 8561), (18, 8630), (21, 8702), (22, 8717), (32, 8909), (33, 8954), (35, 8996), (36, 9011), (44, 9128), (48, 9194), (55, 9302),

Gene: Kate33_12 Start: 8370, Stop: 9164, Start Num: 15

Candidate Starts for Kate33_12:

(Start: 15 @8370 has 132 MA's), (21, 8517), (22, 8532), (32, 8724), (33, 8769), (35, 8811), (48, 9009),

Gene: Kenzers_12 Start: 8337, Stop: 9134, Start Num: 15

Candidate Starts for Kenzers_12:

(4, 8130), (5, 8133), (6, 8151), (9, 8253), (13, 8307), (Start: 15 @8337 has 132 MA's), (16, 8343), (21, 8484), (22, 8499), (32, 8691), (35, 8778), (48, 8979), (54, 9075),

Gene: Kieran_12 Start: 8559, Stop: 9353, Start Num: 15

Candidate Starts for Kieran_12:

(Start: 15 @8559 has 132 MA's), (16, 8565), (18, 8634), (21, 8706), (22, 8721), (32, 8913), (33, 8958), (35, 9000), (36, 9015), (44, 9132), (48, 9198), (55, 9306),

Gene: KingBob_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for KingBob_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: Kittykat_11 Start: 7979, Stop: 8887, Start Num: 15

Candidate Starts for Kittykat_11:

(Start: 15 @7979 has 132 MA's), (22, 8135), (26, 8240), (29, 8294), (30, 8297), (40, 8477), (41, 8486), (46, 8573), (47, 8597), (50, 8651), (51, 8681), (53, 8699), (57, 8738),

Gene: Korra_15 Start: 10802, Stop: 11710, Start Num: 15

Candidate Starts for Korra_15:

(Start: 15 @10802 has 132 MA's), (22, 10958), (26, 11063), (30, 11120), (40, 11300), (42, 11312), (43, 11315), (49, 11450), (50, 11474), (51, 11504), (57, 11561),

Gene: Lahqtemish_12 Start: 8417, Stop: 9211, Start Num: 15

Candidate Starts for Lahqtemish_12:

(Start: 15 @8417 has 132 MA's), (21, 8564), (22, 8579), (32, 8771), (33, 8816), (35, 8858), (48, 9056),

Gene: Lakshmi_15 Start: 10878, Stop: 11786, Start Num: 14

Candidate Starts for Lakshmi_15:

(Start: 14 @10878 has 9 MA's), (22, 11034), (26, 11139), (27, 11187), (40, 11376), (50, 11550), (51, 11580), (56, 11631), (57, 11637),

Gene: Lasagna_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Lasagna_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: Lennox_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Lennox_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (40, 8434), (49, 8584), (50, 8608), (51, 8638), (57, 8695),

Gene: LilStuart_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for LilStuart_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: Lilo27_12 Start: 8297, Stop: 9094, Start Num: 15

Candidate Starts for Lilo27_12:

(4, 8090), (5, 8093), (6, 8111), (7, 8120), (13, 8267), (Start: 15 @8297 has 132 MA's), (16, 8303), (21, 8444), (22, 8459), (28, 8615), (32, 8651), (33, 8696), (35, 8738), (48, 8939),

Gene: LimaBean_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for LimaBean_12:

(2, 8020), (5, 8116), (6, 8134), (9, 8236), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: Litotes_15 Start: 10820, Stop: 11728, Start Num: 15

Candidate Starts for Litotes_15:

(Start: 15 @10820 has 132 MA's), (17, 10841), (20, 10931), (22, 10976), (30, 11138), (32, 11168), (37, 11288), (39, 11315), (40, 11318), (43, 11333), (45, 11396), (46, 11414), (50, 11492), (51, 11522), (52, 11528), (56, 11573), (57, 11579),

Gene: Loviatar_12 Start: 8640, Stop: 9437, Start Num: 15

Candidate Starts for Loviatar_12:

(Start: 15 @8640 has 132 MA's), (16, 8646), (19, 8724), (21, 8790), (22, 8805), (29, 8964), (32, 8997), (33, 9042), (48, 9282),

Gene: Lucy_11 Start: 7927, Stop: 8835, Start Num: 15

Candidate Starts for Lucy_11:

(Start: 15 @7927 has 132 MA's), (22, 8083), (29, 8242), (30, 8245), (40, 8425), (49, 8575), (50, 8599), (51, 8629), (57, 8686),

Gene: Lynlen_12 Start: 8337, Stop: 9134, Start Num: 15

Candidate Starts for Lynlen_12:

(4, 8130), (5, 8133), (6, 8151), (9, 8253), (13, 8307), (Start: 15 @8337 has 132 MA's), (16, 8343), (21, 8484), (22, 8499), (32, 8691), (35, 8778), (48, 8979), (54, 9075),

Gene: Makoto_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Makoto_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (30, 8254), (40, 8434), (49, 8584), (50, 8608), (51, 8638), (57, 8695),

Gene: MamaPearl_11 Start: 7982, Stop: 8890, Start Num: 15

Candidate Starts for MamaPearl_11:

(11, 7931), (12, 7934), (Start: 15 @7982 has 132 MA's), (17, 8003), (22, 8138), (26, 8243), (30, 8300), (38, 8453), (40, 8480), (44, 8555), (46, 8576), (50, 8654), (51, 8684), (52, 8690), (57, 8741),

Gene: Maria1952_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Maria1952_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: MeganNoll_15 Start: 10854, Stop: 11762, Start Num: 15

Candidate Starts for MeganNoll_15:

(Start: 15 @10854 has 132 MA's), (22, 11010), (26, 11115), (30, 11172), (40, 11352), (43, 11367), (49, 11502), (50, 11526), (51, 11556), (57, 11613),

Gene: Milomuff_13 Start: 8706, Stop: 9503, Start Num: 15

Candidate Starts for Milomuff_13:

(5, 8502), (6, 8520), (9, 8622), (13, 8676), (Start: 15 @8706 has 132 MA's), (16, 8712), (21, 8853), (22, 8868), (32, 9060), (35, 9147), (48, 9348), (54, 9444),

Gene: Misaeng_15 Start: 10924, Stop: 11832, Start Num: 14

Candidate Starts for Misaeng_15:

(Start: 14 @10924 has 9 MA's), (22, 11080), (26, 11185), (27, 11233), (37, 11392), (40, 11422), (41, 11431), (44, 11497), (50, 11596), (51, 11626), (56, 11677), (57, 11683),

Gene: Moki_11 Start: 7938, Stop: 8846, Start Num: 15

Candidate Starts for Moki_11:

(Start: 15 @7938 has 132 MA's), (22, 8094), (26, 8199), (30, 8256), (40, 8436), (43, 8451), (46, 8532), (50, 8610), (51, 8640), (53, 8658), (57, 8697),

Gene: MrBoss_15 Start: 10820, Stop: 11728, Start Num: 15

Candidate Starts for MrBoss_15:

(Start: 15 @10820 has 132 MA's), (17, 10841), (22, 10976), (30, 11138), (32, 11168), (37, 11288), (39, 11315), (40, 11318), (43, 11333), (45, 11396), (46, 11414), (50, 11492), (51, 11522), (52, 11528), (56, 11573), (57, 11579),

Gene: MrGloopy_15 Start: 10787, Stop: 11695, Start Num: 15

Candidate Starts for MrGloopy_15:

(Start: 15 @10787 has 132 MA's), (22, 10943), (26, 11048), (30, 11105), (40, 11285), (43, 11300), (50, 11459), (51, 11489), (57, 11546),

Gene: MsUbiquitous_12 Start: 8360, Stop: 9157, Start Num: 15

Candidate Starts for MsUbiquitous_12:

(5, 8156), (6, 8174), (13, 8330), (Start: 15 @8360 has 132 MA's), (16, 8366), (21, 8507), (22, 8522), (32, 8714), (35, 8801), (48, 9002),

Gene: Nancia_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for Nancia_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (50, 8608), (51, 8638), (57, 8695),

Gene: Nicky22_13 Start: 8768, Stop: 9565, Start Num: 15

Candidate Starts for Nicky22_13:

(5, 8564), (6, 8582), (13, 8738), (Start: 15 @8768 has 132 MA's), (16, 8774), (21, 8915), (22, 8930), (28, 9086), (32, 9122), (33, 9167), (48, 9410),

Gene: Nubia_15 Start: 10838, Stop: 11746, Start Num: 14

Candidate Starts for Nubia_15:

(Start: 14 @10838 has 9 MA's), (22, 10994), (26, 11099), (27, 11147), (40, 11336), (50, 11510), (51, 11540), (56, 11591), (57, 11597),

Gene: OMalley_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for OMalley_11:

(Start: 15 @7979 has 132 MA's), (20, 8090), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (59, 8813),

Gene: OurGirlNessie_11 Start: 7927, Stop: 8835, Start Num: 15

Candidate Starts for OurGirlNessie_11:

(Start: 15 @7927 has 132 MA's), (22, 8083), (29, 8242), (30, 8245), (40, 8425), (49, 8575), (50, 8599), (51, 8629), (57, 8686),

Gene: Oxynfrius_15 Start: 10851, Stop: 11759, Start Num: 14

Candidate Starts for Oxynfrius_15:

(Start: 14 @10851 has 9 MA's), (22, 11007), (26, 11112), (27, 11160), (40, 11349), (50, 11523), (51, 11553), (56, 11604), (57, 11610),

Gene: PartyCup_15 Start: 10867, Stop: 11775, Start Num: 15

Candidate Starts for PartyCup_15:

(Start: 15 @10867 has 132 MA's), (17, 10888), (20, 10978), (22, 11023), (27, 11176), (30, 11185), (32, 11215), (37, 11335), (39, 11362), (40, 11365), (43, 11380), (45, 11443), (46, 11461), (50, 11539), (51, 11569), (52, 11575), (56, 11620), (57, 11626),

Gene: PastaFagioli_12 Start: 8405, Stop: 9199, Start Num: 15

Candidate Starts for PastaFagioli_12:

(Start: 15 @8405 has 132 MA's), (21, 8552), (22, 8567), (32, 8759), (33, 8804), (35, 8846), (48, 9044),

Gene: Pecas_12 Start: 8321, Stop: 9118, Start Num: 15

Candidate Starts for Pecas_12:

(6, 8135), (13, 8291), (Start: 15 @8321 has 132 MA's), (16, 8327), (21, 8468), (22, 8483), (32, 8675), (33, 8720), (35, 8762), (48, 8963),

Gene: PhigPhack_12 Start: 8349, Stop: 9146, Start Num: 15

Candidate Starts for PhigPhack_12:

(5, 8145), (6, 8163), (9, 8265), (13, 8319), (Start: 15 @8349 has 132 MA's), (16, 8355), (21, 8496), (22, 8511), (32, 8703), (35, 8790), (48, 8991), (54, 9087),

Gene: Phisb_12 Start: 8314, Stop: 9111, Start Num: 15

Candidate Starts for Phisb_12:

(3, 8026), (4, 8107), (5, 8110), (6, 8128), (13, 8284), (Start: 15 @8314 has 132 MA's), (16, 8320), (21, 8461), (22, 8476), (28, 8632), (32, 8668), (33, 8713), (35, 8755), (48, 8956),

Gene: PinkFriday_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for PinkFriday_11:

(Start: 15 @7979 has 132 MA's), (18, 8054), (22, 8135), (23, 8201), (24, 8204), (26, 8240), (27, 8288), (29, 8294), (30, 8297), (34, 8366), (40, 8474), (46, 8570), (50, 8648), (51, 8678), (57, 8735),

Gene: PitaDog_11 Start: 7927, Stop: 8835, Start Num: 15

Candidate Starts for PitaDog_11:

(Start: 15 @7927 has 132 MA's), (22, 8083), (29, 8242), (30, 8245), (40, 8425), (49, 8575), (50, 8599), (51, 8629), (57, 8686),

Gene: PondAmelia_15 Start: 8569, Stop: 9366, Start Num: 15

Candidate Starts for PondAmelia_15:

(Start: 15 @8569 has 132 MA's), (16, 8575), (19, 8653), (21, 8719), (29, 8893), (32, 8926), (33, 8971), (35, 9013), (48, 9211),

Gene: Potatoes_15 Start: 10848, Stop: 11756, Start Num: 15

Candidate Starts for Potatoes_15:

(Start: 15 @10848 has 132 MA's), (22, 11004), (26, 11109), (30, 11166), (40, 11346), (43, 11361), (49, 11496), (50, 11520), (51, 11550), (57, 11607),

Gene: Preamble_11 Start: 7937, Stop: 8845, Start Num: 15

Candidate Starts for Preamble_11:

(Start: 15 @7937 has 132 MA's), (22, 8093), (26, 8198), (27, 8246), (29, 8252), (30, 8255), (40, 8435), (41, 8444), (44, 8510), (46, 8531), (50, 8609), (51, 8639), (53, 8657), (57, 8696),

Gene: Pterodactyl_11 Start: 7928, Stop: 8836, Start Num: 15

Candidate Starts for Pterodactyl_11:

(Start: 15 @7928 has 132 MA's), (22, 8084), (29, 8243), (30, 8246), (31, 8264), (40, 8426), (49, 8576), (50, 8600), (51, 8630), (57, 8687),

Gene: Pumancara_11 Start: 7978, Stop: 8883, Start Num: 15

Candidate Starts for Pumancara_11:

(Start: 15 @7978 has 132 MA's), (18, 8053), (22, 8134), (23, 8200), (26, 8239), (27, 8287), (30, 8296), (34, 8365), (40, 8473), (46, 8569), (50, 8647), (51, 8677), (57, 8734),

Gene: QMacho_13 Start: 8804, Stop: 9601, Start Num: 15

Candidate Starts for QMacho_13:

(6, 8618), (9, 8720), (13, 8774), (Start: 15 @8804 has 132 MA's), (16, 8810), (21, 8951), (22, 8966), (32, 9158), (33, 9203), (35, 9245), (48, 9446),

Gene: RAP15_15 Start: 10854, Stop: 11762, Start Num: 15

Candidate Starts for RAP15_15:

(Start: 15 @10854 has 132 MA's), (22, 11010), (26, 11115), (30, 11172), (40, 11352), (43, 11367), (49, 11502), (50, 11526), (51, 11556), (57, 11613),

Gene: RcigaStruga_15 Start: 10859, Stop: 11767, Start Num: 14

Candidate Starts for RcigaStruga_15:

(Start: 14 @10859 has 9 MA's), (22, 11015), (26, 11120), (27, 11168), (40, 11357), (41, 11366), (44, 11432), (50, 11531), (51, 11561), (56, 11612), (57, 11618),

Gene: Riovina_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for Riovina_11:

(Start: 15 @7979 has 132 MA's), (20, 8090), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (59, 8813),

Gene: Riverdale_15 Start: 10785, Stop: 11693, Start Num: 15

Candidate Starts for Riverdale_15:

(Start: 15 @10785 has 132 MA's), (22, 10941), (26, 11046), (30, 11103), (40, 11283), (43, 11298), (50, 11457), (51, 11487), (57, 11544),

Gene: Rona_12 Start: 8556, Stop: 9350, Start Num: 15

Candidate Starts for Rona_12:

(Start: 15 @8556 has 132 MA's), (16, 8562), (18, 8631), (21, 8703), (22, 8718), (32, 8910), (33, 8955), (35, 8997), (36, 9012), (44, 9129), (48, 9195), (55, 9303),

Gene: Rozby_15 Start: 10785, Stop: 11693, Start Num: 15

Candidate Starts for Rozby_15:

(Start: 15 @10785 has 132 MA's), (22, 10941), (26, 11046), (30, 11103), (40, 11283), (43, 11298), (49, 11433), (50, 11457), (51, 11487), (57, 11544),

Gene: SanaSana_13 Start: 8569, Stop: 9366, Start Num: 15

Candidate Starts for SanaSana_13:

(Start: 15 @8569 has 132 MA's), (16, 8575), (19, 8653), (21, 8719), (22, 8734), (29, 8893), (32, 8926), (33, 8971), (48, 9211),

Gene: SansAfet_12 Start: 8331, Stop: 9128, Start Num: 15

Candidate Starts for SansAfet_12:

(5, 8127), (6, 8145), (9, 8247), (13, 8301), (Start: 15 @8331 has 132 MA's), (16, 8337), (21, 8478), (22, 8493), (32, 8685), (35, 8772), (48, 8973), (54, 9069),

Gene: SarBear_12 Start: 8297, Stop: 9094, Start Num: 15

Candidate Starts for SarBear_12:

(5, 8093), (6, 8111), (13, 8267), (Start: 15 @8297 has 132 MA's), (16, 8303), (21, 8444), (22, 8459), (32, 8651), (35, 8738), (48, 8939), (54, 9035),

Gene: Savage2526_15 Start: 10848, Stop: 11756, Start Num: 15

Candidate Starts for Savage2526_15:

(Start: 15 @10848 has 132 MA's), (22, 11004), (26, 11109), (30, 11166), (40, 11346), (43, 11361), (49, 11496), (50, 11520), (51, 11550), (57, 11607),

Gene: Scuttle_15 Start: 10854, Stop: 11762, Start Num: 15

Candidate Starts for Scuttle_15:

(Start: 15 @10854 has 132 MA's), (22, 11010), (26, 11115), (30, 11172), (40, 11352), (43, 11367), (50, 11526), (51, 11556), (57, 11613),

Gene: Sergei_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Sergei_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: Sharkboy_12 Start: 8555, Stop: 9349, Start Num: 15

Candidate Starts for Sharkboy_12:

(Start: 15 @8555 has 132 MA's), (16, 8561), (18, 8630), (21, 8702), (22, 8717), (32, 8909), (33, 8954), (35, 8996), (36, 9011), (44, 9128), (48, 9194), (55, 9302),

Gene: SirBeanington_12 Start: 8323, Stop: 9120, Start Num: 15

Candidate Starts for SirBeanington_12:

(3, 8035), (4, 8116), (5, 8119), (6, 8137), (7, 8146), (13, 8293), (Start: 15 @8323 has 132 MA's), (16, 8329), (21, 8470), (22, 8485), (28, 8641), (32, 8677), (33, 8722), (35, 8764), (48, 8965),

Gene: Slay_12 Start: 8773, Stop: 9570, Start Num: 15

Candidate Starts for Slay_12:

(5, 8569), (6, 8587), (13, 8743), (Start: 15 @8773 has 132 MA's), (16, 8779), (21, 8920), (22, 8935), (32, 9127), (35, 9214), (48, 9415), (54, 9511),

Gene: Softsoap_12 Start: 8320, Stop: 9117, Start Num: 15

Candidate Starts for Softsoap_12:

(5, 8116), (6, 8134), (9, 8236), (13, 8290), (Start: 15 @8320 has 132 MA's), (16, 8326), (21, 8467), (22, 8482), (32, 8674), (35, 8761), (48, 8962), (54, 9058),

Gene: Solea_13 Start: 8706, Stop: 9503, Start Num: 15

Candidate Starts for Solea_13:

(5, 8502), (6, 8520), (9, 8622), (13, 8676), (Start: 15 @8706 has 132 MA's), (16, 8712), (21, 8853), (22, 8868), (32, 9060), (35, 9147), (48, 9348), (54, 9444),

Gene: Stoor_12 Start: 8566, Stop: 9363, Start Num: 15

Candidate Starts for Stoor_12:

(Start: 15 @8566 has 132 MA's), (16, 8572), (19, 8650), (21, 8716), (22, 8731), (29, 8890), (32, 8923), (33, 8968), (48, 9208),

Gene: Stromboli_12 Start: 8570, Stop: 9367, Start Num: 15

Candidate Starts for Stromboli_12:

(Start: 15 @8570 has 132 MA's), (16, 8576), (21, 8720), (22, 8735), (29, 8894), (32, 8927), (33, 8972), (44, 9146), (48, 9212),

Gene: Supakev_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Supakev_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (30, 8299), (34, 8368), (40, 8476), (43, 8491), (50, 8650), (51, 8680), (53, 8698), (57, 8737), (58, 8797), (59, 8815),

Gene: Suppi_15 Start: 10870, Stop: 11778, Start Num: 15

Candidate Starts for Suppi_15:

(Start: 15 @10870 has 132 MA's), (17, 10891), (22, 11026), (30, 11188), (32, 11218), (37, 11338), (39, 11365), (40, 11368), (43, 11383), (45, 11446), (46, 11464), (50, 11542), (51, 11572), (52, 11578), (56, 11623), (57, 11629),

Gene: Swervy_12 Start: 8297, Stop: 9094, Start Num: 15

Candidate Starts for Swervy_12:

(5, 8093), (6, 8111), (13, 8267), (Start: 15 @8297 has 132 MA's), (16, 8303), (21, 8444), (22, 8459), (32, 8651), (35, 8738), (48, 8939), (54, 9035),

Gene: TattModd_15 Start: 10848, Stop: 11756, Start Num: 15

Candidate Starts for TattModd_15:

(Start: 15 @10848 has 132 MA's), (22, 11004), (26, 11109), (30, 11166), (43, 11361), (50, 11520), (51, 11550), (57, 11607),

Gene: Temper16_11 Start: 7981, Stop: 8886, Start Num: 15

Candidate Starts for Temper16_11:

(Start: 15 @7981 has 132 MA's), (22, 8137), (23, 8203), (26, 8242), (27, 8290), (30, 8299), (40, 8476), (46, 8572), (50, 8650), (51, 8680), (57, 8737),

Gene: TukTuk_12 Start: 8357, Stop: 9154, Start Num: 15

Candidate Starts for TukTuk_12:

(5, 8153), (6, 8171), (13, 8327), (Start: 15 @8357 has 132 MA's), (16, 8363), (21, 8504), (22, 8519), (32, 8711), (35, 8798), (48, 8999),

Gene: Urla_11 Start: 7985, Stop: 8893, Start Num: 15

Candidate Starts for Urla_11:

(11, 7934), (12, 7937), (Start: 15 @7985 has 132 MA's), (17, 8006), (22, 8141), (26, 8246), (27, 8294), (30, 8303), (40, 8483), (44, 8558), (45, 8561), (46, 8579), (47, 8603), (50, 8657), (51, 8687), (52, 8693), (57, 8744),

Gene: Vallejo_15 Start: 10786, Stop: 11694, Start Num: 15

Candidate Starts for Vallejo_15:

(Start: 15 @10786 has 132 MA's), (22, 10942), (26, 11047), (30, 11104), (40, 11284), (43, 11299), (49, 11434), (50, 11458), (51, 11488), (57, 11545),

Gene: Vulture_11 Start: 7979, Stop: 8884, Start Num: 15

Candidate Starts for Vulture_11:

(Start: 15 @7979 has 132 MA's), (22, 8135), (30, 8297), (34, 8366), (39, 8471), (40, 8474), (43, 8489), (50, 8648), (51, 8678), (53, 8696), (57, 8735), (58, 8795), (59, 8813),

Gene: WalkingDead_12 Start: 8557, Stop: 9354, Start Num: 15

Candidate Starts for WalkingDead_12:

(Start: 15 @8557 has 132 MA's), (16, 8563), (21, 8707), (22, 8722), (29, 8881), (32, 8914), (33, 8959), (35, 9001), (44, 9133), (48, 9199),

Gene: Wawa_15 Start: 10823, Stop: 11731, Start Num: 15

Candidate Starts for Wawa_15:

(Start: 15 @10823 has 132 MA's), (22, 10979), (26, 11084), (30, 11141), (40, 11321), (43, 11336), (49, 11471), (50, 11495), (51, 11525), (57, 11582),

Gene: Wayne_15 Start: 10916, Stop: 11824, Start Num: 15

Candidate Starts for Wayne_15:

(Start: 15 @10916 has 132 MA's), (17, 10937), (22, 11072), (30, 11234), (32, 11264), (37, 11384), (39, 11411), (40, 11414), (43, 11429), (45, 11492), (46, 11510), (50, 11588), (51, 11618), (52, 11624), (56, 11669), (57, 11675),

Gene: WonderBoy_11 Start: 7936, Stop: 8844, Start Num: 15

Candidate Starts for WonderBoy_11:

(Start: 15 @7936 has 132 MA's), (22, 8092), (26, 8197), (29, 8251), (30, 8254), (31, 8272), (40, 8434), (43, 8449), (46, 8530), (50, 8608), (51, 8638), (57, 8695),

Gene: Zorro_15 Start: 10802, Stop: 11710, Start Num: 15

Candidate Starts for Zorro_15:

(Start: 15 @10802 has 132 MA's), (22, 10958), (26, 11063), (30, 11120), (40, 11300), (43, 11315), (49, 11450), (50, 11474), (51, 11504), (57, 11561),