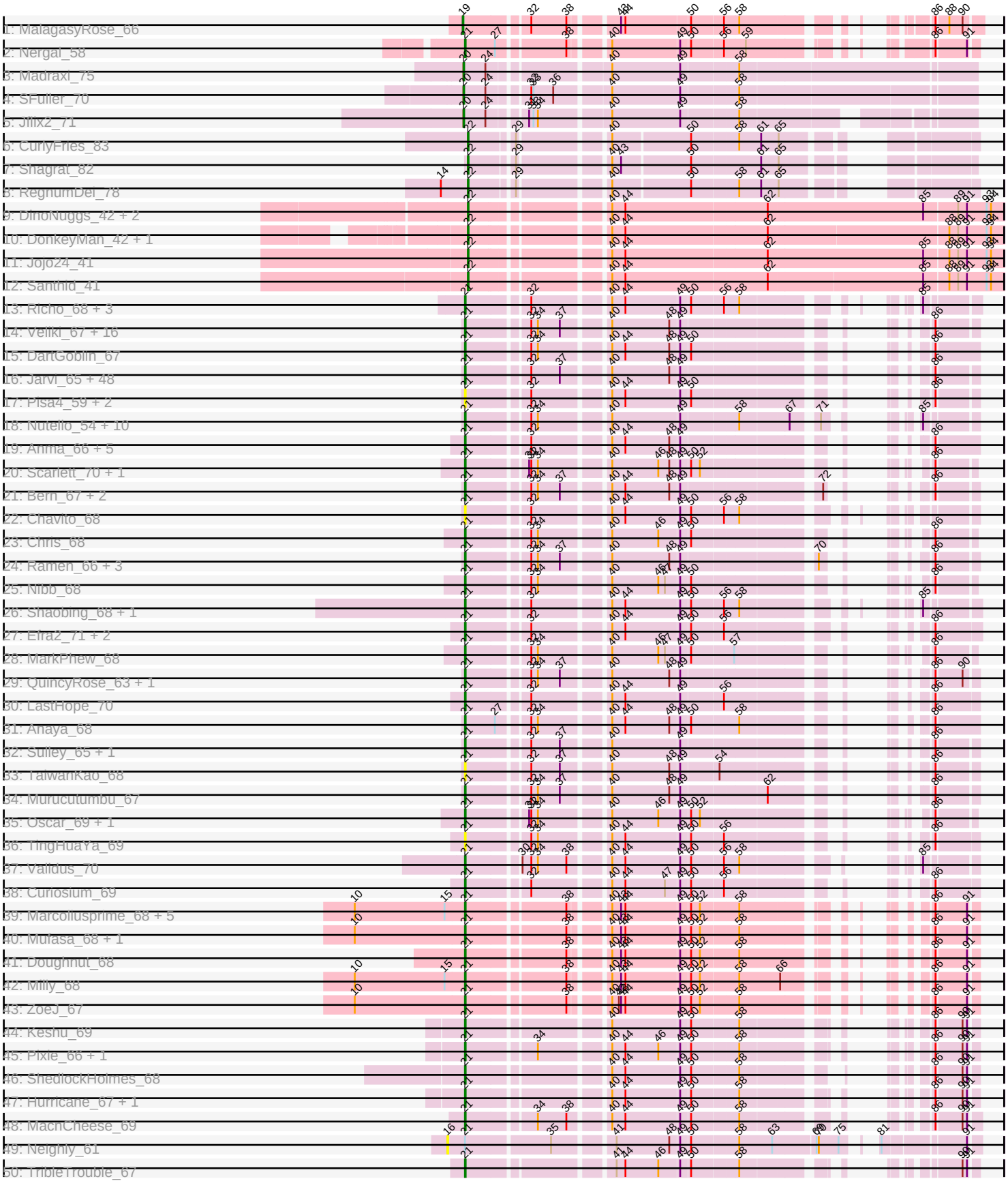
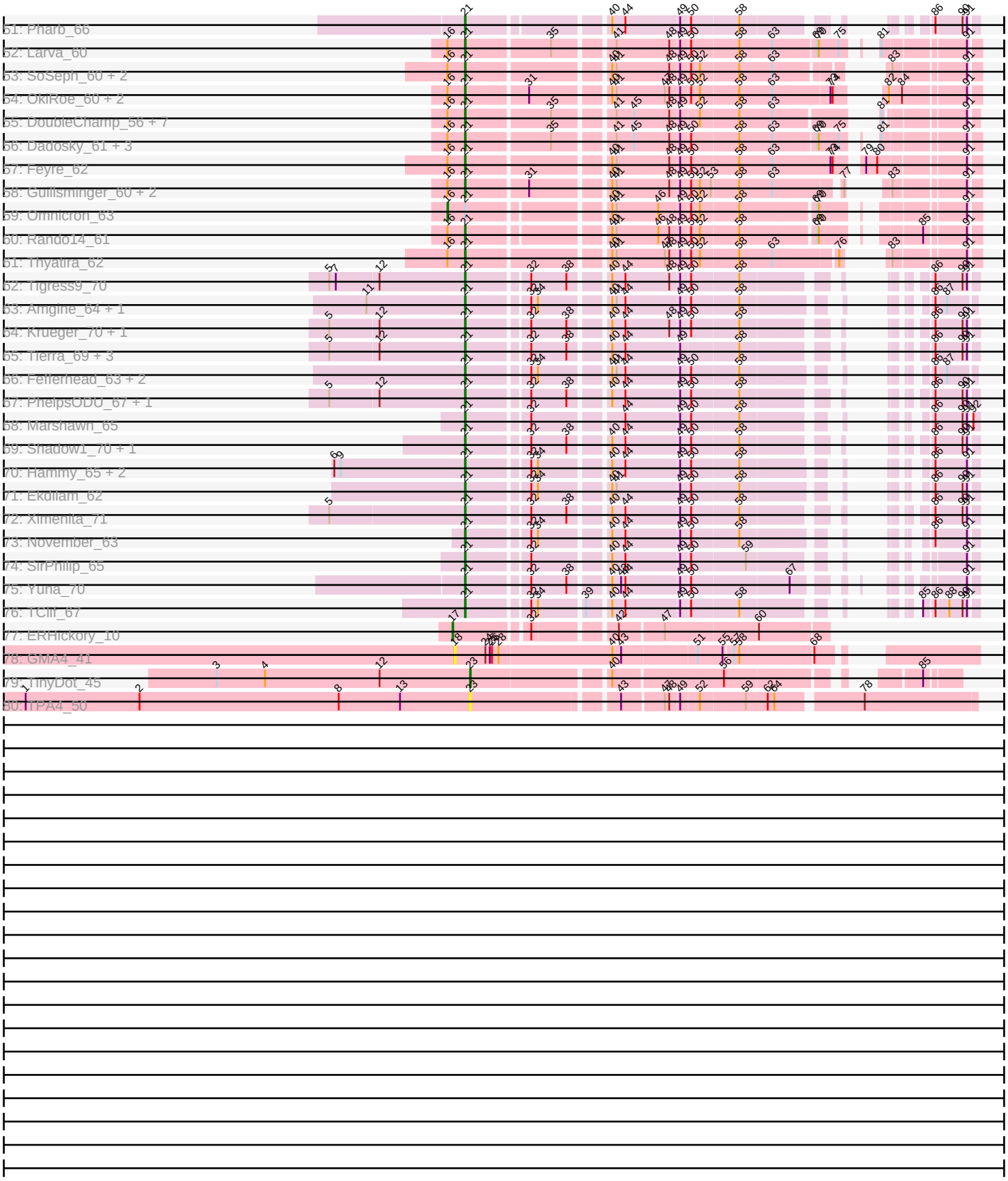
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1: MalagasyRose_66
2: Nergal_58
3: Madraxi_75
4: SFuller_70
5: Jflix2_71
6: CurlyFries_83
7: Shagrat_82
8: RegnumDei_78
9: DinoNuggs_42 + 2
10: DonkeyMan_42 + 1
11: Jojo24_41
12: Santhid_41
13: Richo_68 + 3
14: Velki_67 + 16
15: DartGoblin_67
16: Jarvi_65 + 48
17: Pisa4_59 + 2
18: Nutello_54 + 10
19: Anima_66 + 5
20: Scarlett_70 + 1
21: Bern_67 + 2
22: Chavito_68
23: Chris_68
24: Ramen_66 + 3
25: Nibb_68
26: Shaobing_68 + 1
27: Efra2_71 + 2
28: MarkPhew_68
29: QuincyRose_63 + 1
30: LastHope_70
31: Anaya_68
32: Sulley_65 + 1
33: TaiwanKao_68
34: Murucutumbu_67
35: Oscar_69 + 1
36: TingHuaYa_69
37: Validus_70
38: Curiosium_69
39: Marcoliusprime_68 + 5
40: Mufasa_68 + 1
41: Doughnut_68
42: Milly_68
43: ZoeJ_67
44: Keshu_69
45: Pixie_66 + 1
46: SherlockHolmes_68
47: Hurricane_67 + 1
48: MacNCheese_69
49: Neighly_61
50: TripleTrouble_67

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51: Pharb_66
52: Larva_60
53: SoSeph_60 + 2
54: OkiRoe_60 + 2
55: DoubleChamp_56 + 7
56: Dadosky_61 + 3
57: Feyre_62
58: Gullsminger_60 + 2
59: Omnicron_63
60: Rando14_61
61: Thyatira_62
62: Tigress9_70
63: Amgine_64 + 1
64: Krueger_70 + 1
65: Tierra_69 + 3
66: Fellerhead_63 + 2
67: PhelpsODU_67 + 1
68: Marshawn_65
69: Shadow1_70 + 1
70: Hammy_65 + 2
71: Ekullam_62
72: Ximenita_71
73: November_63
74: SirPhilip_65
75: Yuna_70
76: TCliff_67
77: ERHickory_10
78: GMA4_41
79: TinyDot_45
80: TPA4_50

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 347256 Report

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

Pham number 347256 has 214 members, 15 are drafts.

Phages represented in each track:
- Track 1 : MalagasyRose_66
- Track 2 : Nergal_58
- Track 3 : Madraxi_75
- Track 4 : SFuller_70
- Track 5 : Jflix2_71
- Track 6 : CurlyFries_83
- Track 7 : Shagrat_82
- Track 8 : RegnumDei_78
- Track 9 : DinoNuggs_42, DearBasketball_44, Reyja_42
- Track 10 : DonkeyMan_42, Tarzan_42
- Track 11 : Jojo24_41
- Track 12 : Santhid_41
- Track 13 : Richo_68, Dartin_68, Niklas_68, McMater_68
- Track 14 : Veliki_67, LaterM_66, Apocalypse_68, Stinson_67, JAWS_66, Ageofdapage_69, Devera_73, BarrelRoll_66, Rapunzel97_67, TruffulaTree_66, Dole_71, Slimphazie_66, Deby_66, Zavala_68, Illumine_71, Mynx_67, MeaningOfLife_66
- Track 15 : DartGoblin_67
- Track 16 : Jarvi_65, Tachez_65, BGlluviae_65, Inky_65, Durfee_65, Padpat_68, Twitch_65, CREW_65, Emerson_67, Blizzard_65, LindNT_65, Lokum_66, Atiba_66, CaseJules_67, Adephagia_65, Llorens_65, Hyperbowlee_65, Asayake_65, Homura_65, Pokerus_65, Clipper_69, Spock_65, Rosmarinus_65, Megsy_68, Lunahalos_65, YoureAdopted_65, Boiiii_65, Piatt_65, Joy99_65, CrimD_67, Tiri_66, Peel_65, Belladonna_65, Adonis_65, Beezoo_67, Padfoot_65, Topper_65, Jayhawk_67, Dalmuri_65, ShiaSurprise_66, Capricorn_65, CallaLilly_65, TreyKay_67, Jeckyll_65, MacKat_61, Prithvi_67, AlishaPH_65, Geraldini_68, BEEST_65
- Track 17 : Pisa4_59, Kheparia_65, Pisa1_65
- Track 18 : Nutello_54, SgtBeansprout_55, Torres_57, Biglebops_54, LilPharaoh_55, Nikao_57, Teejan_56, Mdavu_55, Enkosi_56, Amelie_54, Trice_54
- Track 19 : Anma_66, TiniBug_66, Urkel_66, DrHayes_66, Bella96_66, SamuelLPlaqson_66
- Track 20 : Scarlett_70, KiSi_70
- Track 21 : Bern_67, BaghaKamala_65, CheetoDust_65
- Track 22 : Chavito_68
- Track 23 : Chris_68
- Track 24 : Ramen_66, ActinUp_65, Zabiza_60, HedwigODU_65

• Track 25 : Nibb_68
• Track 26 : Shaobing_68, Peanam_68
• Track 27 : Efra2_71, Yunkel11_70, Guanica15_70
• Track 28 : MarkPhew_68
• Track 29 : QuincyRose_63, Ganymede_65
• Track 30 : LastHope_70
• Track 31 : Anaya_68
• Track 32 : Sulley_65, Angelica_65
• Track 33 : TaiwanKao_68
• Track 34 : Murucutumbu_67
• Track 35 : Oscar_69, LeMond_69
• Track 36 : TingHuaYa_69
• Track 37 : Validus_70
• Track 38 : Curiosium_69
• Track 39 : Marcoliusprime_68, DismalFunk_68, TM4_66, Findley_68, DismalStressor_68, Strobilo_69
• Track 40 : Mufasa_68, BoostSeason_68
• Track 41 : Doughnut_68
• Track 42 : Milly_68
• Track 43 : ZoeJ_67
• Track 44 : Keshu_69
• Track 45 : Pixie_66, TBond007_63
• Track 46 : ShedlockHolmes_68
• Track 47 : Hurricane_67, Lea83_67
• Track 48 : MacnCheese_69
• Track 49 : Neighly_61
• Track 50 : TribleTrouble_67
• Track 51 : Pharb_66
• Track 52 : Larva_60
• Track 53 : SoSeph_60, Heftyboy_60, Waterfoul_61
• Track 54 : OkiRoe_60, Gengar_59, Miryou_63
• Track 55 : DoubleChamp_56, Agent47_59, BananenDer11_59, LilDirt_58, Collard_57, Kratio_57, InvictusManeo_57, ViviJ_58
• Track 56 : Dadosky_61, Edugator_58, AlleyCat_61, Psycho_59
• Track 57 : Feyre_62
• Track 58 : Guillsminger_60, Paola_59, Leston_59
• Track 59 : Omnicron_63
• Track 60 : Rando14_61
• Track 61 : Thyatira_62
• Track 62 : Tigress9_70
• Track 63 : Amgine_64, Lavahound_63
• Track 64 : Krueger_70, Syra333_69
• Track 65 : Tierra_69, Cain_69, Phrank_69, Bryler_69
• Track 66 : Fefferhead_63, Applecrisp_62, Ellie_61
• Track 67 : PhelpsODU_67, Unicorn_67
• Track 68 : Marshawn_65
• Track 69 : Shadow1_70, Sunflower1121_71
• Track 70 : Hammy_65, Amohnition_65, DarthP_65
• Track 71 : Ekdilam_62
• Track 72 : Ximenita_71
• Track 73 : November_63
• Track 74 : SirPhilip_65
• Track 75 : Yuna_70

• Track 76 : TClif_67
• Track 77 : ERHickory_10
• Track 78 : GMA4_41
• Track 79 : TinyDot_45
• Track 80 : TPA4_50

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

The start number called the most often in the published annotations is 21, it was called in 184 of the 199 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_65, Adephagia_65, Adonis_65, Agent47_59, Ageofdapage_69, AlishaPH_65, AlleyCat_61, Amelie_54, Amgine_64, Amohnition_65, Anaya_68, Angelica_65, Anma_66, Apocalypse_68, Applecrisp_62, Asayake_65, Atiba_66, BEEST_65, BGlluviae_65, BaghaKamala_65, BananenDer11_59, BarrelRoll_66, Beezoo_67, Bella96_66, Belladonna_65, Bern_67, Biglebops_54, Blizzard_65, Boiiii_65, BoostSeason_68, Bryler_69, CREW_65, Cain_69, CallaLilly_65, Capricorn_65, CaseJules_67, Chavito_68, CheetoDust_65, Chris_68, Clipper_69, Collard_57, CrimD_67, Curiosium_69, Dadosky_61, Dalmuri_65, DartGoblin_67, DarthP_65, Dartin_68, Deby_66, Devera_73, DismalFunk_68, DismalStressor_68, Dole_71, DoubleChamp_56, Doughnut_68, DrHayes_66, Durfee_65, Edugator_58, Efra2_71, Ekdilam_62, Ellie_61, Emerson_67, Enkosi_56, Fefferhead_63, Feyre_62, Findley_68, Ganymede_65, Gengar_59, Geraldini_68, Guanica15_70, Guillsminger_60, Hammy_65, HedwigODU_65, Heftyboy_60, Homura_65, Hurricane_67, Hyperbowlee_65, Illumine_71, Inky_65, InvictusManeo_57, JAWS_66, Jarvi_65, Jayhawk_67, Jeckyll_65, Joy99_65, Keshu_69, Kheparia_65, KiSi_70, Kratio_57, Krueger_70, Larva_60, LastHope_70, LaterM_66, Lavahound_63, LeMond_69, Lea83_67, Leston_59, LilDirt_58, LilPharaoh_55, LindNT_65, Llorens_65, Lokum_66, Lunahalos_65, MacKat_61, MacnCheese_69, Marcoliusprime_68, MarkPhew_68, Marshawn_65, McMater_68, Mdavu_55, MeaningOfLife_66, Megsy_68, Milly_68, Miryou_63, Mufasa_68, Murucutumbu_67, Mynx_67, Nergal_58, Nibb_68, Nikao_57, Niklas_68, November_63, Nutello_54, OkiRoe_60, Oscar_69, Padfoot_65, Padpat_68, Paola_59, Peanam_68, Peel_65, Pharb_66, PhelpsODU_67, Phrank_69, Piatt_65, Pisa1_65, Pisa4_59, Pixie_66, Pokerus_65, Prithvi_67, Psycho_59, QuincyRose_63, Ramen_66, Rando14_61, Rapunzel97_67, Richo_68, Rosmarinus_65, SamuelLPlaqson_66, Scarlett_70, SgtBeansprout_55, Shadow1_70, Shaobing_68, ShedlockHolmes_68, ShiaSurprise_66, SirPhilip_65, Slimphazie_66, SoSeph_60, Spock_65, Stinson_67, Strobilo_69, Sulley_65, Sunflower1121_71, Syra333_69, TBond007_63, TClif_67, TM4_66, Tachez_65, TaiwanKao_68, Teejan_56, Thyatira_62, Tierra_69, Tigress9_70, TingHuaYa_69, TiniBug_66, Tiri_66, Topper_65, Torres_57, TreyKay_67, TribleTrouble_67, Trice_54, TruffulaTree_66, Twitch_65, Unicorn_67, Urkel_66, Validus_70, Veliki_67, ViviJ_58, Waterfoul_61, Ximenita_71, YoureAdopted_65, Yuna_70, Yunkel11_70, Zabiza_60, Zavala_68, ZoeJ_67,

Genes that have the "Most Annotated" start but do not call it:
• Neighly_61, Omnicron_63,

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

• CurlyFries_83, DearBasketball_44, DinoNuggs_42, DonkeyMan_42, ERHickory_10, GMA4_41, Jflix2_71, Jojo24_41, Madraxi_75, MalagasyRose_66, RegnumDei_78, Reyja_42, SFuller_70, Santhid_41, Shagrat_82, TPA4_50, Tarzan_42, TinyDot_45,

Summary by start number:

Start 16:
• Found in 27 of 214 (12.6%) of genes in pham
• Manual Annotations of this start: 1 of 199
• Called 7.4% of time when present
• Phage (with cluster) where this start called: Neighly_61 (K3), Omnicron_63 (K5),

Start 17:
• Found in 1 of 214 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 199
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ERHickory_10 (singleton),

Start 18:
• Found in 1 of 214 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA4_41 (singleton),

Start 19:
• Found in 1 of 214 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 199
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MalagasyRose_66 (AG),

Start 20:
• Found in 3 of 214 (1.4%) of genes in pham
• Manual Annotations of this start: 3 of 199
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jflix2_71 (CF), Madraxi_75 (CF), SFuller_70 (CF),

Start 21:
• Found in 196 of 214 (91.6%) of genes in pham
• Manual Annotations of this start: 184 of 199
• Called 99.0% of time when present
• Phage (with cluster) where this start called: ActinUp_65 (K1), Adephagia_65 (K1), Adonis_65 (K1), Agent47_59 (K5), Ageofdapage_69 (K1), AlishaPH_65 (K1), AlleyCat_61 (K5), Amelie_54 (K1), Amgine_64 (K6), Amohnition_65 (K6), Anaya_68 (K1), Angelica_65 (K1), Anma_66 (K1), Apocalypse_68 (K1), Applecrisp_62 (K6), Asayake_65 (K1), Atiba_66 (K1), BEEST_65 (K1), BGlluviae_65 (K1), BaghaKamala_65 (K1), BananenDer11_59 (K5), BarrelRoll_66 (K1), Beezoo_67 (K1), Bella96_66 (K1), Belladonna_65 (K1), Bern_67 (K1), Biglebops_54 (K1), Blizzard_65 (K1), Boiiii_65 (K1), BoostSeason_68 (K2), Bryler_69 (K6), CREW_65 (K1), Cain_69 (K6), CallaLilly_65 (K1), Capricorn_65 (K1), CaseJules_67 (K1), Chavito_68 (K1), CheetoDust_65 (K1), Chris_68 (K1), Clipper_69 (K1), Collard_57 (K5), CrimD_67 (K1), Curiosium_69 (K1), Dadosky_61 (K5), Dalmuri_65 (K1), DartGoblin_67 (K1), DarthP_65 (K6), Dartin_68 (K1), Deby_66 (K1), Devera_73 (K1), DismalFunk_68

(K2), DismalStressor_68 (K2), Dole_71 (K1), DoubleChamp_56 (K5), Doughnut_68 (K2), DrHayes_66 (K1), Durfee_65 (K1), Edugator_58 (K5), Efra2_71 (K1), Ekdilam_62 (K6), Ellie_61 (K6), Emerson_67 (K1), Enkosi_56 (K1), Fefferhead_63 (K6), Feyre_62 (K5), Findley_68 (K2), Ganymede_65 (K1), Gengar_59 (K5), Geraldini_68 (K1), Guanica15_70 (K1), Guillsminger_60 (K5), Hammy_65 (K6), HedwigODU_65 (K1), Heftyboy_60 (K5), Homura_65 (K1), Hurricane_67 (K3), Hyperbowlee_65 (K1), Illumine_71 (K1), Inky_65 (K1), InvictusManeo_57 (K5), JAWS_66 (K1), Jarvi_65 (K1), Jayhawk_67 (K1), Jeckyll_65 (K1), Joy99_65 (K1), Keshu_69 (K3), Kheparia_65 (K1), KiSi_70 (K1), Kratio_57 (K5), Krueger_70 (K6), Larva_60 (K5), LastHope_70 (K1), LaterM_66 (K1), Lavahound_63 (K6), LeMond_69 (K1), Lea83_67 (K3), Leston_59 (K5), LilDirt_58 (K5), LilPharaoh_55 (K1), LindNT_65 (K1), Llorens_65 (K1), Lokum_66 (K1), Lunahalos_65 (K1), MacKat_61 (K1), MacnCheese_69 (K3), Marcoliusprime_68 (K2), MarkPhew_68 (K1), Marshawn_65 (K6), McMater_68 (K1), Mdavu_55 (K1), MeaningOfLife_66 (K1), Megsy_68 (K1), Milly_68 (K2), Miryou_63 (K5), Mufasa_68 (K2), Murucutumbu_67 (K1), Mynx_67 (K1), Nergal_58 (AG), Nibb_68 (K1), Nikao_57 (K1), Niklas_68 (K1), November_63 (K6), Nutello_54 (K1), OkiRoe_60 (K5), Oscar_69 (K1), Padfoot_65 (K1), Padpat_68 (K1), Paola_59 (K5), Peanam_68 (K1), Peel_65 (K1), Pharb_66 (K3), PhelpsODU_67 (K6), Phrank_69 (K6), Piatt_65 (K1), Pisa1_65 (K1), Pisa4_59 (K1), Pixie_66 (K3), Pokerus_65 (K1), Prithvi_67 (K1), Psycho_59 (K5), QuincyRose_63 (K1), Ramen_66 (K1), Rando14_61 (K5), Rapunzel97_67 (K1), Richo_68 (K1), Rosmarinus_65 (K1), SamuelLPlaqson_66 (K1), Scarlett_70 (K1), SgtBeansprout_55 (K1), Shadow1_70 (K6), Shaobing_68 (K1), ShedlockHolmes_68 (K3), ShiaSurprise_66 (K1), SirPhilip_65 (K6), Slimphazie_66 (K1), SoSeph_60 (K5), Spock_65 (K1), Stinson_67 (K1), Strobilo_69 (K2), Sulley_65 (K1), Sunflower1121_71 (K6), Syra333_69 (K6), TBond007_63 (K3), TClif_67 (K6), TM4_66 (K2), Tachez_65 (K1), TaiwanKao_68 (K1), Teejan_56 (K1), Thyatira_62 (K5), Tierra_69 (K6), Tigress9_70 (K6), TingHuaYa_69 (K1), TiniBug_66 (K1), Tiri_66 (K1), Topper_65 (K1), Torres_57 (K1), TreyKay_67 (K1), TribleTrouble_67 (K3), Trice_54 (K1), TruffulaTree_66 (K1), Twitch_65 (K1), Unicorn_67 (K6), Urkel_66 (K1), Validus_70 (K1), Veliki_67 (K1), ViviJ_58 (K5), Waterfoul_61 (K5), Ximenita_71 (K6), YoureAdopted_65 (K1), Yuna_70 (K6), Yunkel11_70 (K1), Zabiza_60 (K1), Zavala_68 (K1), ZoeJ_67 (K2),

Start 22:
• Found in 10 of 214 (4.7%) of genes in pham
• Manual Annotations of this start: 8 of 199
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CurlyFries_83 (CF), DearBasketball_44 (DY), DinoNuggs_42 (DY), DonkeyMan_42 (DY), Jojo24_41 (DY), RegnumDei_78 (CF), Reyja_42 (DY), Santhid_41 (DY), Shagrat_82 (CF), Tarzan_42 (DY),

Start 23:
• Found in 2 of 214 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 199
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA4_50 (singleton), TinyDot_45 (singleton),

Summary by clusters:

There are 9 clusters represented in this pham: singleton, AG, CF, K3, K2, K1, K6, K5, DY,

Info for manual annotations of cluster AG:
•Start number 19 was manually annotated 1 time for cluster AG.
•Start number 21 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster CF:
•Start number 20 was manually annotated 3 times for cluster CF.
•Start number 22 was manually annotated 3 times for cluster CF.

Info for manual annotations of cluster DY:
•Start number 22 was manually annotated 5 times for cluster DY.

Info for manual annotations of cluster K1:
•Start number 21 was manually annotated 113 times for cluster K1.

Info for manual annotations of cluster K2:
•Start number 21 was manually annotated 11 times for cluster K2.

Info for manual annotations of cluster K3:
•Start number 21 was manually annotated 9 times for cluster K3.

Info for manual annotations of cluster K5:
•Start number 16 was manually annotated 1 time for cluster K5.
•Start number 21 was manually annotated 24 times for cluster K5.

Info for manual annotations of cluster K6:
•Start number 21 was manually annotated 26 times for cluster K6.

Gene Information:

Gene: ActinUp_65 Start: 42856, Stop: 43365, Start Num: 21
Candidate Starts for ActinUp_65:
(Start: 21 @42856 has 184 MA's), (32, 42931), (34, 42940), (37, 42970), (40, 43024), (48, 43102), (49, 43114), (70, 43273), (86, 43315),

Gene: Adephagia_65 Start: 42893, Stop: 43402, Start Num: 21
Candidate Starts for Adephagia_65:
(Start: 21 @42893 has 184 MA's), (32, 42968), (37, 43007), (40, 43061), (48, 43139), (49, 43151), (86, 43352),

Gene: Adonis_65 Start: 43128, Stop: 43637, Start Num: 21
Candidate Starts for Adonis_65:
(Start: 21 @43128 has 184 MA's), (32, 43203), (37, 43242), (40, 43296), (48, 43374), (49, 43386), (86, 43587),

Gene: Agent47_59 Start: 40081, Stop: 40656, Start Num: 21
Candidate Starts for Agent47_59:
(Start: 16 @40057 has 1 MA's), (Start: 21 @40081 has 184 MA's), (35, 40189), (41, 40261), (45, 40285), (48, 40333), (49, 40345), (52, 40369), (58, 40417), (63, 40462), (81, 40552), (91, 40645),

Gene: Ageofdapage_69 Start: 44287, Stop: 44796, Start Num: 21
Candidate Starts for Ageofdapage_69:

(Start: 21 @44287 has 184 MA's), (32, 44362), (34, 44371), (37, 44401), (40, 44455), (48, 44533), (49, 44545), (86, 44746),

Gene: AlishaPH_65 Start: 43154, Stop: 43663, Start Num: 21
Candidate Starts for AlishaPH_65:
(Start: 21 @43154 has 184 MA's), (32, 43229), (37, 43268), (40, 43322), (48, 43400), (49, 43412), (86, 43613),

Gene: AlleyCat_61 Start: 40379, Stop: 40972, Start Num: 21
Candidate Starts for AlleyCat_61:
(Start: 16 @40355 has 1 MA's), (Start: 21 @40379 has 184 MA's), (35, 40487), (41, 40559), (45, 40583), (48, 40631), (49, 40643), (50, 40655), (58, 40715), (63, 40760), (69, 40814), (70, 40817), (75, 40844), (81, 40859), (91, 40958),

Gene: Amelie_54 Start: 40324, Stop: 40845, Start Num: 21
Candidate Starts for Amelie_54:
(Start: 21 @40324 has 184 MA's), (32, 40399), (34, 40408), (40, 40492), (49, 40582), (58, 40654), (67, 40717), (71, 40744), (85, 40783),

Gene: Amgine_64 Start: 43961, Stop: 44473, Start Num: 21
Candidate Starts for Amgine_64:
(11, 43832), (Start: 21 @43961 has 184 MA's), (32, 44036), (34, 44045), (40, 44129), (41, 44135), (44, 44147), (49, 44219), (50, 44231), (58, 44291), (86, 44426), (87, 44438),

Gene: Amohnition_65 Start: 43500, Stop: 44012, Start Num: 21
Candidate Starts for Amohnition_65:
(6, 43323), (9, 43332), (Start: 21 @43500 has 184 MA's), (32, 43575), (34, 43584), (40, 43668), (44, 43686), (49, 43758), (50, 43770), (58, 43830), (86, 43962), (91, 44001),

Gene: Anaya_68 Start: 43839, Stop: 44357, Start Num: 21
Candidate Starts for Anaya_68:
(Start: 21 @43839 has 184 MA's), (27, 43878), (32, 43914), (34, 43923), (40, 44007), (44, 44025), (48, 44085), (49, 44097), (50, 44109), (58, 44169), (86, 44301),

Gene: Angelica_65 Start: 43046, Stop: 43555, Start Num: 21
Candidate Starts for Angelica_65:
(Start: 21 @43046 has 184 MA's), (32, 43121), (37, 43160), (40, 43214), (49, 43304), (86, 43505),

Gene: Anma_66 Start: 43745, Stop: 44260, Start Num: 21
Candidate Starts for Anma_66:
(Start: 21 @43745 has 184 MA's), (32, 43820), (40, 43913), (44, 43931), (48, 43991), (49, 44003), (86, 44204),

Gene: Apocalypse_68 Start: 43810, Stop: 44319, Start Num: 21
Candidate Starts for Apocalypse_68:
(Start: 21 @43810 has 184 MA's), (32, 43885), (34, 43894), (37, 43924), (40, 43978), (48, 44056), (49, 44068), (86, 44269),

Gene: Applecrisp_62 Start: 43091, Stop: 43603, Start Num: 21
Candidate Starts for Applecrisp_62:
(Start: 21 @43091 has 184 MA's), (32, 43166), (34, 43175), (40, 43259), (41, 43265), (44, 43277), (49, 43349), (50, 43361), (58, 43421), (86, 43556), (87, 43568),

Gene: Asayake_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Asayake_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Atiba_66 Start: 42856, Stop: 43365, Start Num: 21
Candidate Starts for Atiba_66:
(Start: 21 @42856 has 184 MA's), (32, 42931), (37, 42970), (40, 43024), (48, 43102), (49, 43114), (86, 43315),

Gene: BEEST_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for BEEST_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: BGlluviae_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for BGlluviae_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: BaghaKamala_65 Start: 42675, Stop: 43184, Start Num: 21
Candidate Starts for BaghaKamala_65:
(Start: 21 @42675 has 184 MA's), (32, 42750), (34, 42759), (37, 42789), (40, 42843), (44, 42861), (48, 42921), (49, 42933), (72, 43098), (86, 43134),

Gene: BananenDer11_59 Start: 40042, Stop: 40617, Start Num: 21
Candidate Starts for BananenDer11_59:
(Start: 16 @40018 has 1 MA's), (Start: 21 @40042 has 184 MA's), (35, 40150), (41, 40222), (45, 40246), (48, 40294), (49, 40306), (52, 40330), (58, 40378), (63, 40423), (81, 40513), (91, 40606),

Gene: BarrelRoll_66 Start: 43294, Stop: 43803, Start Num: 21
Candidate Starts for BarrelRoll_66:
(Start: 21 @43294 has 184 MA's), (32, 43369), (34, 43378), (37, 43408), (40, 43462), (48, 43540), (49, 43552), (86, 43753),

Gene: Beezoo_67 Start: 43806, Stop: 44315, Start Num: 21
Candidate Starts for Beezoo_67:
(Start: 21 @43806 has 184 MA's), (32, 43881), (37, 43920), (40, 43974), (48, 44052), (49, 44064), (86, 44265),

Gene: Bella96_66 Start: 43591, Stop: 44106, Start Num: 21
Candidate Starts for Bella96_66:
(Start: 21 @43591 has 184 MA's), (32, 43666), (40, 43759), (44, 43777), (48, 43837), (49, 43849), (86, 44050),

Gene: Belladonna_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Belladonna_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Bern_67 Start: 42268, Stop: 42777, Start Num: 21
Candidate Starts for Bern_67:

(Start: 21 @42268 has 184 MA's), (32, 42343), (34, 42352), (37, 42382), (40, 42436), (44, 42454), (48, 42514), (49, 42526), (72, 42691), (86, 42727),

Gene: Biglebops_54 Start: 40324, Stop: 40845, Start Num: 21
Candidate Starts for Biglebops_54:
(Start: 21 @40324 has 184 MA's), (32, 40399), (34, 40408), (40, 40492), (49, 40582), (58, 40654), (67, 40717), (71, 40744), (85, 40783),

Gene: Blizzard_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Blizzard_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Boiiii_65 Start: 43210, Stop: 43719, Start Num: 21
Candidate Starts for Boiiii_65:
(Start: 21 @43210 has 184 MA's), (32, 43285), (37, 43324), (40, 43378), (48, 43456), (49, 43468), (86, 43669),

Gene: BoostSeason_68 Start: 45062, Stop: 45580, Start Num: 21
Candidate Starts for BoostSeason_68:
(10, 44912), (Start: 21 @45062 has 184 MA's), (38, 45185), (40, 45227), (43, 45239), (44, 45245), (49, 45317), (50, 45329), (52, 45341), (58, 45389), (86, 45530), (91, 45569),

Gene: Bryler_69 Start: 42843, Stop: 43361, Start Num: 21
Candidate Starts for Bryler_69:
(5, 42663), (12, 42729), (Start: 21 @42843 has 184 MA's), (32, 42918), (38, 42966), (40, 43011), (44, 43029), (49, 43101), (58, 43173), (86, 43311), (90, 43344), (91, 43350),

Gene: CREW_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for CREW_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Cain_69 Start: 42831, Stop: 43349, Start Num: 21
Candidate Starts for Cain_69:
(5, 42651), (12, 42717), (Start: 21 @42831 has 184 MA's), (32, 42906), (38, 42954), (40, 42999), (44, 43017), (49, 43089), (58, 43161), (86, 43299), (90, 43332), (91, 43338),

Gene: CallaLilly_65 Start: 42934, Stop: 43443, Start Num: 21
Candidate Starts for CallaLilly_65:
(Start: 21 @42934 has 184 MA's), (32, 43009), (37, 43048), (40, 43102), (48, 43180), (49, 43192), (86, 43393),

Gene: Capricorn_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Capricorn_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: CaseJules_67 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for CaseJules_67:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Chavito_68 Start: 44040, Stop: 44564, Start Num: 21
Candidate Starts for Chavito_68:
(Start: 21 @44040 has 184 MA's), (32, 44115), (40, 44208), (44, 44226), (49, 44298), (50, 44310), (56, 44352), (58, 44370),

Gene: CheetoDust_65 Start: 42722, Stop: 43231, Start Num: 21
Candidate Starts for CheetoDust_65:
(Start: 21 @42722 has 184 MA's), (32, 42797), (34, 42806), (37, 42836), (40, 42890), (44, 42908), (48, 42968), (49, 42980), (72, 43145), (86, 43181),

Gene: Chris_68 Start: 44067, Stop: 44573, Start Num: 21
Candidate Starts for Chris_68:
(Start: 21 @44067 has 184 MA's), (32, 44142), (34, 44151), (40, 44235), (46, 44298), (49, 44325), (50, 44337), (86, 44526),

Gene: Clipper_69 Start: 43910, Stop: 44419, Start Num: 21
Candidate Starts for Clipper_69:
(Start: 21 @43910 has 184 MA's), (32, 43985), (37, 44024), (40, 44078), (48, 44156), (49, 44168), (86, 44369),

Gene: Collard_57 Start: 40042, Stop: 40617, Start Num: 21
Candidate Starts for Collard_57:
(Start: 16 @40018 has 1 MA's), (Start: 21 @40042 has 184 MA's), (35, 40150), (41, 40222), (45, 40246), (48, 40294), (49, 40306), (52, 40330), (58, 40378), (63, 40423), (81, 40513), (91, 40606),

Gene: CrimD_67 Start: 43833, Stop: 44342, Start Num: 21
Candidate Starts for CrimD_67:
(Start: 21 @43833 has 184 MA's), (32, 43908), (37, 43947), (40, 44001), (48, 44079), (49, 44091), (86, 44292),

Gene: Curiosium_69 Start: 42524, Stop: 43036, Start Num: 21
Candidate Starts for Curiosium_69:
(Start: 21 @42524 has 184 MA's), (32, 42599), (40, 42692), (44, 42710), (47, 42764), (49, 42782), (50, 42794), (56, 42836), (86, 42983),

Gene: CurlyFries_83 Start: 45467, Stop: 46030, Start Num: 22
Candidate Starts for CurlyFries_83:
(Start: 22 @45467 has 8 MA's), (29, 45521), (40, 45629), (50, 45731), (58, 45791), (61, 45821), (65, 45845),

Gene: Dadosky_61 Start: 40381, Stop: 40974, Start Num: 21
Candidate Starts for Dadosky_61:
(Start: 16 @40357 has 1 MA's), (Start: 21 @40381 has 184 MA's), (35, 40489), (41, 40561), (45, 40585), (48, 40633), (49, 40645), (50, 40657), (58, 40717), (63, 40762), (69, 40816), (70, 40819), (75, 40846), (81, 40861), (91, 40960),

Gene: Dalmuri_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Dalmuri_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: DartGoblin_67 Start: 43563, Stop: 44078, Start Num: 21
Candidate Starts for DartGoblin_67:

(Start: 21 @43563 has 184 MA's), (32, 43638), (34, 43647), (40, 43731), (44, 43749), (48, 43809), (49, 43821), (50, 43833), (86, 44022),

Gene: DarthP_65 Start: 43354, Stop: 43866, Start Num: 21
Candidate Starts for DarthP_65:
(6, 43177), (9, 43186), (Start: 21 @43354 has 184 MA's), (32, 43429), (34, 43438), (40, 43522), (44, 43540), (49, 43612), (50, 43624), (58, 43684), (86, 43816), (91, 43855),

Gene: Dartin_68 Start: 43499, Stop: 44026, Start Num: 21
Candidate Starts for Dartin_68:
(Start: 21 @43499 has 184 MA's), (32, 43574), (40, 43667), (44, 43685), (49, 43757), (50, 43769), (56, 43811), (58, 43829), (85, 43961),

Gene: DearBasketball_44 Start: 29665, Stop: 30348, Start Num: 22
Candidate Starts for DearBasketball_44:
(Start: 22 @29665 has 8 MA's), (40, 29827), (44, 29845), (62, 30034), (85, 30244), (89, 30286), (91, 30298), (93, 30325), (94, 30331),

Gene: Deby_66 Start: 43494, Stop: 44003, Start Num: 21
Candidate Starts for Deby_66:
(Start: 21 @43494 has 184 MA's), (32, 43569), (34, 43578), (37, 43608), (40, 43662), (48, 43740), (49, 43752), (86, 43953),

Gene: Devera_73 Start: 44850, Stop: 45359, Start Num: 21
Candidate Starts for Devera_73:
(Start: 21 @44850 has 184 MA's), (32, 44925), (34, 44934), (37, 44964), (40, 45018), (48, 45096), (49, 45108), (86, 45309),

Gene: DinoNuggs_42 Start: 29334, Stop: 30017, Start Num: 22
Candidate Starts for DinoNuggs_42:
(Start: 22 @29334 has 8 MA's), (40, 29496), (44, 29514), (62, 29703), (85, 29913), (89, 29955), (91, 29967), (93, 29994), (94, 30000),

Gene: DismalFunk_68 Start: 45487, Stop: 46005, Start Num: 21
Candidate Starts for DismalFunk_68:
(10, 45337), (15, 45460), (Start: 21 @45487 has 184 MA's), (38, 45610), (40, 45652), (43, 45664), (44, 45670), (49, 45742), (50, 45754), (52, 45766), (58, 45814), (86, 45955), (91, 45994),

Gene: DismalStressor_68 Start: 45487, Stop: 46005, Start Num: 21
Candidate Starts for DismalStressor_68:
(10, 45337), (15, 45460), (Start: 21 @45487 has 184 MA's), (38, 45610), (40, 45652), (43, 45664), (44, 45670), (49, 45742), (50, 45754), (52, 45766), (58, 45814), (86, 45955), (91, 45994),

Gene: Dole_71 Start: 44853, Stop: 45362, Start Num: 21
Candidate Starts for Dole_71:
(Start: 21 @44853 has 184 MA's), (32, 44928), (34, 44937), (37, 44967), (40, 45021), (48, 45099), (49, 45111), (86, 45312),

Gene: DonkeyMan_42 Start: 30250, Stop: 30930, Start Num: 22
Candidate Starts for DonkeyMan_42:
(Start: 22 @30250 has 8 MA's), (40, 30412), (44, 30430), (62, 30619), (88, 30856), (89, 30868), (91, 30880), (93, 30907), (94, 30913),

Gene: DoubleChamp_56 Start: 40042, Stop: 40617, Start Num: 21
Candidate Starts for DoubleChamp_56:
(Start: 16 @40018 has 1 MA's), (Start: 21 @40042 has 184 MA's), (35, 40150), (41, 40222), (45, 40246), (48, 40294), (49, 40306), (52, 40330), (58, 40378), (63, 40423), (81, 40513), (91, 40606),

Gene: Doughnut_68 Start: 45102, Stop: 45620, Start Num: 21
Candidate Starts for Doughnut_68:
(Start: 21 @45102 has 184 MA's), (38, 45225), (40, 45267), (43, 45279), (44, 45285), (49, 45357), (50, 45369), (52, 45381), (58, 45429), (86, 45570), (91, 45609),

Gene: DrHayes_66 Start: 43745, Stop: 44260, Start Num: 21
Candidate Starts for DrHayes_66:
(Start: 21 @43745 has 184 MA's), (32, 43820), (40, 43913), (44, 43931), (48, 43991), (49, 44003), (86, 44204),

Gene: Durfee_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Durfee_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: ERHickory_10 Start: 4928, Stop: 4470, Start Num: 17
Candidate Starts for ERHickory_10:
(Start: 17 @4928 has 1 MA's), (32, 4838), (42, 4739), (47, 4682), (60, 4559),

Gene: Edugator_58 Start: 41802, Stop: 42395, Start Num: 21
Candidate Starts for Edugator_58:
(Start: 16 @41778 has 1 MA's), (Start: 21 @41802 has 184 MA's), (35, 41910), (41, 41982), (45, 42006), (48, 42054), (49, 42066), (50, 42078), (58, 42138), (63, 42183), (69, 42237), (70, 42240), (75, 42267), (81, 42282), (91, 42381),

Gene: Efra2_71 Start: 43581, Stop: 44105, Start Num: 21
Candidate Starts for Efra2_71:
(Start: 21 @43581 has 184 MA's), (32, 43656), (40, 43749), (44, 43767), (49, 43839), (50, 43851), (56, 43893), (86, 44049),

Gene: Ekdilam_62 Start: 43584, Stop: 44096, Start Num: 21
Candidate Starts for Ekdilam_62:
(Start: 21 @43584 has 184 MA's), (32, 43659), (34, 43668), (40, 43752), (41, 43758), (49, 43842), (50, 43854), (58, 43914), (86, 44046), (90, 44079), (91, 44085),

Gene: Ellie_61 Start: 42821, Stop: 43333, Start Num: 21
Candidate Starts for Ellie_61:
(Start: 21 @42821 has 184 MA's), (32, 42896), (34, 42905), (40, 42989), (41, 42995), (44, 43007), (49, 43079), (50, 43091), (58, 43151), (86, 43286), (87, 43298),

Gene: Emerson_67 Start: 43328, Stop: 43837, Start Num: 21
Candidate Starts for Emerson_67:
(Start: 21 @43328 has 184 MA's), (32, 43403), (37, 43442), (40, 43496), (48, 43574), (49, 43586), (86, 43787),

Gene: Enkosi_56 Start: 42937, Stop: 43458, Start Num: 21
Candidate Starts for Enkosi_56:

(Start: 21 @42937 has 184 MA's), (32, 43012), (34, 43021), (40, 43105), (49, 43195), (58, 43267), (67, 43330), (71, 43357), (85, 43396),

Gene: Fefferhead_63 Start: 42730, Stop: 43242, Start Num: 21
Candidate Starts for Fefferhead_63:
(Start: 21 @42730 has 184 MA's), (32, 42805), (34, 42814), (40, 42898), (41, 42904), (44, 42916), (49, 42988), (50, 43000), (58, 43060), (86, 43195), (87, 43207),

Gene: Feyre_62 Start: 43763, Stop: 44383, Start Num: 21
Candidate Starts for Feyre_62:
(Start: 16 @43739 has 1 MA's), (Start: 21 @43763 has 184 MA's), (40, 43937), (41, 43943), (48, 44015), (49, 44027), (50, 44039), (58, 44099), (63, 44144), (73, 44219), (74, 44222), (79, 44249), (80, 44264), (91, 44369),

Gene: Findley_68 Start: 45480, Stop: 45998, Start Num: 21
Candidate Starts for Findley_68:
(10, 45330), (15, 45453), (Start: 21 @45480 has 184 MA's), (38, 45603), (40, 45645), (43, 45657), (44, 45663), (49, 45735), (50, 45747), (52, 45759), (58, 45807), (86, 45948), (91, 45987),

Gene: GMA4_41 Start: 30857, Stop: 31489, Start Num: 18
Candidate Starts for GMA4_41:
(18, 30857), (24, 30899), (25, 30905), (26, 30908), (28, 30917), (40, 31070), (43, 31082), (51, 31181), (55, 31214), (57, 31226), (58, 31232), (68, 31328),

Gene: Ganymede_65 Start: 43234, Stop: 43743, Start Num: 21
Candidate Starts for Ganymede_65:
(Start: 21 @43234 has 184 MA's), (32, 43309), (34, 43318), (37, 43348), (40, 43402), (48, 43480), (49, 43492), (86, 43693), (90, 43726),

Gene: Gengar_59 Start: 41780, Stop: 42370, Start Num: 21
Candidate Starts for Gengar_59:
(Start: 16 @41756 has 1 MA's), (Start: 21 @41780 has 184 MA's), (31, 41858), (40, 41954), (41, 41960), (47, 42026), (48, 42032), (49, 42044), (50, 42056), (52, 42068), (58, 42116), (63, 42161), (73, 42233), (74, 42236), (82, 42263), (84, 42278), (91, 42356),

Gene: Geraldini_68 Start: 43890, Stop: 44399, Start Num: 21
Candidate Starts for Geraldini_68:
(Start: 21 @43890 has 184 MA's), (32, 43965), (37, 44004), (40, 44058), (48, 44136), (49, 44148), (86, 44349),

Gene: Guanica15_70 Start: 43322, Stop: 43843, Start Num: 21
Candidate Starts for Guanica15_70:
(Start: 21 @43322 has 184 MA's), (32, 43397), (40, 43490), (44, 43508), (49, 43580), (50, 43592), (56, 43634), (86, 43790),

Gene: Guillsminger_60 Start: 41751, Stop: 42323, Start Num: 21
Candidate Starts for Guillsminger_60:
(Start: 16 @41727 has 1 MA's), (Start: 21 @41751 has 184 MA's), (31, 41829), (40, 41925), (41, 41931), (48, 42003), (49, 42015), (50, 42027), (52, 42039), (53, 42054), (58, 42087), (63, 42132), (77, 42210), (83, 42222), (91, 42309),

Gene: Hammy_65 Start: 43342, Stop: 43854, Start Num: 21
Candidate Starts for Hammy_65:

(6, 43165), (9, 43174), (Start: 21 @43342 has 184 MA's), (32, 43417), (34, 43426), (40, 43510), (44, 43528), (49, 43600), (50, 43612), (58, 43672), (86, 43804), (91, 43843),

Gene: HedwigODU_65 Start: 42856, Stop: 43365, Start Num: 21
Candidate Starts for HedwigODU_65:
(Start: 21 @42856 has 184 MA's), (32, 42931), (34, 42940), (37, 42970), (40, 43024), (48, 43102), (49, 43114), (70, 43273), (86, 43315),

Gene: Heftyboy_60 Start: 42125, Stop: 42691, Start Num: 21
Candidate Starts for Heftyboy_60:
(Start: 16 @42101 has 1 MA's), (Start: 21 @42125 has 184 MA's), (40, 42299), (41, 42305), (48, 42377), (49, 42389), (50, 42401), (52, 42413), (58, 42461), (63, 42506), (83, 42590), (91, 42677),

Gene: Homura_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Homura_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Hurricane_67 Start: 43488, Stop: 44006, Start Num: 21
Candidate Starts for Hurricane_67:
(Start: 21 @43488 has 184 MA's), (40, 43656), (44, 43674), (49, 43746), (50, 43758), (58, 43818), (86, 43956), (90, 43989), (91, 43995),

Gene: Hyperbowlee_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Hyperbowlee_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Illumine_71 Start: 44852, Stop: 45361, Start Num: 21
Candidate Starts for Illumine_71:
(Start: 21 @44852 has 184 MA's), (32, 44927), (34, 44936), (37, 44966), (40, 45020), (48, 45098), (49, 45110), (86, 45311),

Gene: Inky_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Inky_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: InvictusManeo_57 Start: 40085, Stop: 40660, Start Num: 21
Candidate Starts for InvictusManeo_57:
(Start: 16 @40061 has 1 MA's), (Start: 21 @40085 has 184 MA's), (35, 40193), (41, 40265), (45, 40289), (48, 40337), (49, 40349), (52, 40373), (58, 40421), (63, 40466), (81, 40556), (91, 40649),

Gene: JAWS_66 Start: 43287, Stop: 43796, Start Num: 21
Candidate Starts for JAWS_66:
(Start: 21 @43287 has 184 MA's), (32, 43362), (34, 43371), (37, 43401), (40, 43455), (48, 43533), (49, 43545), (86, 43746),

Gene: Jarvi_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Jarvi_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Jayhawk_67 Start: 43354, Stop: 43863, Start Num: 21
Candidate Starts for Jayhawk_67:
(Start: 21 @43354 has 184 MA's), (32, 43429), (37, 43468), (40, 43522), (48, 43600), (49, 43612), (86, 43813),

Gene: Jeckyll_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Jeckyll_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Jflix2_71 Start: 44931, Stop: 45539, Start Num: 20
Candidate Starts for Jflix2_71:
(Start: 20 @44931 has 3 MA's), (24, 44961), (31, 45003), (33, 45009), (34, 45015), (40, 45105), (49, 45198), (58, 45270),

Gene: Jojo24_41 Start: 28906, Stop: 29589, Start Num: 22
Candidate Starts for Jojo24_41:
(Start: 22 @28906 has 8 MA's), (40, 29068), (44, 29086), (62, 29275), (85, 29485), (88, 29515), (89, 29527), (91, 29539), (93, 29566), (94, 29572),

Gene: Joy99_65 Start: 42940, Stop: 43449, Start Num: 21
Candidate Starts for Joy99_65:
(Start: 21 @42940 has 184 MA's), (32, 43015), (37, 43054), (40, 43108), (48, 43186), (49, 43198), (86, 43399),

Gene: Keshu_69 Start: 43586, Stop: 44104, Start Num: 21
Candidate Starts for Keshu_69:
(Start: 21 @43586 has 184 MA's), (40, 43754), (49, 43844), (50, 43856), (58, 43916), (86, 44054), (90, 44087), (91, 44093),

Gene: Kheparia_65 Start: 40829, Stop: 41338, Start Num: 21
Candidate Starts for Kheparia_65:
(Start: 21 @40829 has 184 MA's), (32, 40904), (40, 40997), (44, 41015), (49, 41087), (50, 41099), (86, 41288),

Gene: KiSi_70 Start: 44046, Stop: 44552, Start Num: 21
Candidate Starts for KiSi_70:
(Start: 21 @44046 has 184 MA's), (31, 44118), (32, 44121), (34, 44130), (40, 44214), (46, 44277), (48, 44292), (49, 44304), (50, 44316), (52, 44328), (86, 44505),

Gene: Kratio_57 Start: 39821, Stop: 40396, Start Num: 21
Candidate Starts for Kratio_57:
(Start: 16 @39797 has 1 MA's), (Start: 21 @39821 has 184 MA's), (35, 39929), (41, 40001), (45, 40025), (48, 40073), (49, 40085), (52, 40109), (58, 40157), (63, 40202), (81, 40292), (91, 40385),

Gene: Krueger_70 Start: 43119, Stop: 43637, Start Num: 21
Candidate Starts for Krueger_70:
(5, 42939), (12, 43005), (Start: 21 @43119 has 184 MA's), (32, 43194), (38, 43242), (40, 43287), (44, 43305), (48, 43365), (49, 43377), (50, 43389), (58, 43449), (86, 43587), (90, 43620), (91, 43626),

Gene: Larva_60 Start: 41253, Stop: 41846, Start Num: 21
Candidate Starts for Larva_60:

(Start: 16 @41229 has 1 MA's), (Start: 21 @41253 has 184 MA's), (35, 41361), (41, 41433), (48, 41505), (49, 41517), (50, 41529), (58, 41589), (63, 41634), (69, 41688), (70, 41691), (75, 41718), (81, 41733), (91, 41832),

Gene: LastHope_70 Start: 42442, Stop: 42954, Start Num: 21
Candidate Starts for LastHope_70:
(Start: 21 @42442 has 184 MA's), (32, 42517), (40, 42610), (44, 42628), (49, 42700), (56, 42754), (86, 42901),

Gene: LaterM_66 Start: 43705, Stop: 44214, Start Num: 21
Candidate Starts for LaterM_66:
(Start: 21 @43705 has 184 MA's), (32, 43780), (34, 43789), (37, 43819), (40, 43873), (48, 43951), (49, 43963), (86, 44164),

Gene: Lavahound_63 Start: 44098, Stop: 44610, Start Num: 21
Candidate Starts for Lavahound_63:
(11, 43969), (Start: 21 @44098 has 184 MA's), (32, 44173), (34, 44182), (40, 44266), (41, 44272), (44, 44284), (49, 44356), (50, 44368), (58, 44428), (86, 44563), (87, 44575),

Gene: LeMond_69 Start: 43680, Stop: 44186, Start Num: 21
Candidate Starts for LeMond_69:
(Start: 21 @43680 has 184 MA's), (31, 43752), (32, 43755), (34, 43764), (40, 43848), (46, 43911), (49, 43938), (50, 43950), (52, 43962), (86, 44139),

Gene: Lea83_67 Start: 43524, Stop: 44036, Start Num: 21
Candidate Starts for Lea83_67:
(Start: 21 @43524 has 184 MA's), (40, 43692), (44, 43710), (49, 43782), (50, 43794), (58, 43854), (86, 43986), (90, 44019), (91, 44025),

Gene: Leston_59 Start: 41880, Stop: 42452, Start Num: 21
Candidate Starts for Leston_59:
(Start: 16 @41856 has 1 MA's), (Start: 21 @41880 has 184 MA's), (31, 41958), (40, 42054), (41, 42060), (48, 42132), (49, 42144), (50, 42156), (52, 42168), (53, 42183), (58, 42216), (63, 42261), (77, 42339), (83, 42351), (91, 42438),

Gene: LilDirt_58 Start: 39843, Stop: 40418, Start Num: 21
Candidate Starts for LilDirt_58:
(Start: 16 @39819 has 1 MA's), (Start: 21 @39843 has 184 MA's), (35, 39951), (41, 40023), (45, 40047), (48, 40095), (49, 40107), (52, 40131), (58, 40179), (63, 40224), (81, 40314), (91, 40407),

Gene: LilPharaoh_55 Start: 40052, Stop: 40573, Start Num: 21
Candidate Starts for LilPharaoh_55:
(Start: 21 @40052 has 184 MA's), (32, 40127), (34, 40136), (40, 40220), (49, 40310), (58, 40382), (67, 40445), (71, 40472), (85, 40511),

Gene: LindNT_65 Start: 43499, Stop: 44008, Start Num: 21
Candidate Starts for LindNT_65:
(Start: 21 @43499 has 184 MA's), (32, 43574), (37, 43613), (40, 43667), (48, 43745), (49, 43757), (86, 43958),

Gene: Llorens_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Llorens_65:

(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Lokum_66 Start: 43012, Stop: 43521, Start Num: 21
Candidate Starts for Lokum_66:
(Start: 21 @43012 has 184 MA's), (32, 43087), (37, 43126), (40, 43180), (48, 43258), (49, 43270), (86, 43471),

Gene: Lunahalos_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Lunahalos_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: MacKat_61 Start: 38794, Stop: 39303, Start Num: 21
Candidate Starts for MacKat_61:
(Start: 21 @38794 has 184 MA's), (32, 38869), (37, 38908), (40, 38962), (48, 39040), (49, 39052), (86, 39253),

Gene: MacnCheese_69 Start: 44105, Stop: 44629, Start Num: 21
Candidate Starts for MacnCheese_69:
(Start: 21 @44105 has 184 MA's), (34, 44189), (38, 44228), (40, 44273), (44, 44291), (49, 44363), (50, 44375), (58, 44435), (86, 44576), (90, 44609), (91, 44615),

Gene: Madraxi_75 Start: 47623, Stop: 48270, Start Num: 20
Candidate Starts for Madraxi_75:
(Start: 20 @47623 has 3 MA's), (24, 47653), (40, 47797), (49, 47890), (58, 47962),

Gene: MalagasyRose_66 Start: 42483, Stop: 43022, Start Num: 19
Candidate Starts for MalagasyRose_66:
(Start: 19 @42483 has 1 MA's), (32, 42558), (38, 42606), (43, 42660), (44, 42666), (50, 42750), (56, 42792), (58, 42810), (86, 42966), (88, 42981), (90, 42999),

Gene: Marcoliusprime_68 Start: 45487, Stop: 46005, Start Num: 21
Candidate Starts for Marcoliusprime_68:
(10, 45337), (15, 45460), (Start: 21 @45487 has 184 MA's), (38, 45610), (40, 45652), (43, 45664), (44, 45670), (49, 45742), (50, 45754), (52, 45766), (58, 45814), (86, 45955), (91, 45994),

Gene: MarkPhew_68 Start: 43181, Stop: 43687, Start Num: 21
Candidate Starts for MarkPhew_68:
(Start: 21 @43181 has 184 MA's), (32, 43256), (34, 43265), (40, 43349), (46, 43412), (47, 43421), (49, 43439), (50, 43451), (57, 43505), (86, 43640),

Gene: Marshawn_65 Start: 43539, Stop: 44048, Start Num: 21
Candidate Starts for Marshawn_65:
(Start: 21 @43539 has 184 MA's), (32, 43614), (44, 43725), (49, 43797), (50, 43809), (58, 43869), (86, 43998), (90, 44031), (91, 44037), (92, 44040),

Gene: McMater_68 Start: 43499, Stop: 44026, Start Num: 21
Candidate Starts for McMater_68:
(Start: 21 @43499 has 184 MA's), (32, 43574), (40, 43667), (44, 43685), (49, 43757), (50, 43769), (56, 43811), (58, 43829), (85, 43961),

Gene: Mdavu_55 Start: 40313, Stop: 40834, Start Num: 21

Candidate Starts for Mdavu_55:
(Start: 21 @40313 has 184 MA's), (32, 40388), (34, 40397), (40, 40481), (49, 40571), (58, 40643), (67, 40706), (71, 40733), (85, 40772),

Gene: MeaningOfLife_66 Start: 43763, Stop: 44272, Start Num: 21
Candidate Starts for MeaningOfLife_66:
(Start: 21 @43763 has 184 MA's), (32, 43838), (34, 43847), (37, 43877), (40, 43931), (48, 44009), (49, 44021), (86, 44222),

Gene: Megsy_68 Start: 43420, Stop: 43929, Start Num: 21
Candidate Starts for Megsy_68:
(Start: 21 @43420 has 184 MA's), (32, 43495), (37, 43534), (40, 43588), (48, 43666), (49, 43678), (86, 43879),

Gene: Milly_68 Start: 45460, Stop: 45978, Start Num: 21
Candidate Starts for Milly_68:
(10, 45310), (15, 45433), (Start: 21 @45460 has 184 MA's), (38, 45583), (40, 45625), (43, 45637), (44, 45643), (49, 45715), (50, 45727), (52, 45739), (58, 45787), (66, 45841), (86, 45928), (91, 45967),

Gene: Miryou_63 Start: 44477, Stop: 45067, Start Num: 21
Candidate Starts for Miryou_63:
(Start: 16 @44453 has 1 MA's), (Start: 21 @44477 has 184 MA's), (31, 44555), (40, 44651), (41, 44657), (47, 44723), (48, 44729), (49, 44741), (50, 44753), (52, 44765), (58, 44813), (63, 44858), (73, 44930), (74, 44933), (82, 44960), (84, 44975), (91, 45053),

Gene: Mufasa_68 Start: 45047, Stop: 45565, Start Num: 21
Candidate Starts for Mufasa_68:
(10, 44897), (Start: 21 @45047 has 184 MA's), (38, 45170), (40, 45212), (43, 45224), (44, 45230), (49, 45302), (50, 45314), (52, 45326), (58, 45374), (86, 45515), (91, 45554),

Gene: Murucutumbu_67 Start: 44280, Stop: 44789, Start Num: 21
Candidate Starts for Murucutumbu_67:
(Start: 21 @44280 has 184 MA's), (32, 44355), (34, 44364), (37, 44394), (40, 44448), (48, 44526), (49, 44538), (62, 44646), (86, 44739),

Gene: Mynx_67 Start: 43623, Stop: 44132, Start Num: 21
Candidate Starts for Mynx_67:
(Start: 21 @43623 has 184 MA's), (32, 43698), (34, 43707), (37, 43737), (40, 43791), (48, 43869), (49, 43881), (86, 44082),

Gene: Neighly_61 Start: 41228, Stop: 41845, Start Num: 16
Candidate Starts for Neighly_61:
(Start: 16 @41228 has 1 MA's), (Start: 21 @41252 has 184 MA's), (35, 41360), (41, 41432), (48, 41504), (49, 41516), (50, 41528), (58, 41588), (63, 41633), (69, 41687), (70, 41690), (75, 41717), (81, 41732), (91, 41831),

Gene: Nergal_58 Start: 39813, Stop: 40349, Start Num: 21
Candidate Starts for Nergal_58:
(Start: 21 @39813 has 184 MA's), (27, 39852), (38, 39936), (40, 39978), (49, 40068), (50, 40080), (56, 40122), (59, 40149), (86, 40299), (91, 40338),

Gene: Nibb_68 Start: 43393, Stop: 43899, Start Num: 21
Candidate Starts for Nibb_68:

(Start: 21 @43393 has 184 MA's), (32, 43468), (34, 43477), (40, 43561), (46, 43624), (47, 43633), (49, 43651), (50, 43663), (86, 43852),

Gene: Nikao_57 Start: 42937, Stop: 43458, Start Num: 21
Candidate Starts for Nikao_57:
(Start: 21 @42937 has 184 MA's), (32, 43012), (34, 43021), (40, 43105), (49, 43195), (58, 43267), (67, 43330), (71, 43357), (85, 43396),

Gene: Niklas_68 Start: 43560, Stop: 44087, Start Num: 21
Candidate Starts for Niklas_68:
(Start: 21 @43560 has 184 MA's), (32, 43635), (40, 43728), (44, 43746), (49, 43818), (50, 43830), (56, 43872), (58, 43890), (85, 44022),

Gene: November_63 Start: 43249, Stop: 43761, Start Num: 21
Candidate Starts for November_63:
(Start: 21 @43249 has 184 MA's), (32, 43324), (34, 43333), (40, 43417), (44, 43435), (49, 43507), (50, 43519), (58, 43579), (86, 43711), (91, 43750),

Gene: Nutello_54 Start: 40324, Stop: 40845, Start Num: 21
Candidate Starts for Nutello_54:
(Start: 21 @40324 has 184 MA's), (32, 40399), (34, 40408), (40, 40492), (49, 40582), (58, 40654), (67, 40717), (71, 40744), (85, 40783),

Gene: OkiRoe_60 Start: 42149, Stop: 42739, Start Num: 21
Candidate Starts for OkiRoe_60:
(Start: 16 @42125 has 1 MA's), (Start: 21 @42149 has 184 MA's), (31, 42227), (40, 42323), (41, 42329), (47, 42395), (48, 42401), (49, 42413), (50, 42425), (52, 42437), (58, 42485), (63, 42530), (73, 42602), (74, 42605), (82, 42632), (84, 42647), (91, 42725),

Gene: Omnicron_63 Start: 42235, Stop: 42843, Start Num: 16
Candidate Starts for Omnicron_63:
(Start: 16 @42235 has 1 MA's), (Start: 21 @42259 has 184 MA's), (40, 42427), (41, 42433), (46, 42490), (49, 42517), (50, 42529), (52, 42541), (58, 42589), (69, 42685), (70, 42688), (91, 42829),

Gene: Oscar_69 Start: 43597, Stop: 44103, Start Num: 21
Candidate Starts for Oscar_69:
(Start: 21 @43597 has 184 MA's), (31, 43669), (32, 43672), (34, 43681), (40, 43765), (46, 43828), (49, 43855), (50, 43867), (52, 43879), (86, 44056),

Gene: Padfoot_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Padfoot_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Padpat_68 Start: 43328, Stop: 43837, Start Num: 21
Candidate Starts for Padpat_68:
(Start: 21 @43328 has 184 MA's), (32, 43403), (37, 43442), (40, 43496), (48, 43574), (49, 43586), (86, 43787),

Gene: Paola_59 Start: 41751, Stop: 42323, Start Num: 21
Candidate Starts for Paola_59:
(Start: 16 @41727 has 1 MA's), (Start: 21 @41751 has 184 MA's), (31, 41829), (40, 41925), (41, 41931), (48, 42003), (49, 42015), (50, 42027), (52, 42039), (53, 42054), (58, 42087), (63, 42132), (77,

42210), (83, 42222), (91, 42309),

Gene: Peanam_68 Start: 43517, Stop: 44044, Start Num: 21
Candidate Starts for Peanam_68:
(Start: 21 @43517 has 184 MA's), (32, 43592), (40, 43685), (44, 43703), (49, 43775), (50, 43787), (56, 43829), (58, 43847), (85, 43979),

Gene: Peel_65 Start: 43013, Stop: 43522, Start Num: 21
Candidate Starts for Peel_65:
(Start: 21 @43013 has 184 MA's), (32, 43088), (37, 43127), (40, 43181), (48, 43259), (49, 43271), (86, 43472),

Gene: Pharb_66 Start: 42835, Stop: 43353, Start Num: 21
Candidate Starts for Pharb_66:
(Start: 21 @42835 has 184 MA's), (40, 43003), (44, 43021), (49, 43093), (50, 43105), (58, 43165), (86, 43303), (90, 43336), (91, 43342),

Gene: PhelpsODU_67 Start: 42757, Stop: 43275, Start Num: 21
Candidate Starts for PhelpsODU_67:
(5, 42577), (12, 42643), (Start: 21 @42757 has 184 MA's), (32, 42832), (38, 42880), (40, 42925), (44, 42943), (49, 43015), (50, 43027), (58, 43087), (86, 43225), (90, 43258), (91, 43264),

Gene: Phrank_69 Start: 42821, Stop: 43339, Start Num: 21
Candidate Starts for Phrank_69:
(5, 42641), (12, 42707), (Start: 21 @42821 has 184 MA's), (32, 42896), (38, 42944), (40, 42989), (44, 43007), (49, 43079), (58, 43151), (86, 43289), (90, 43322), (91, 43328),

Gene: Piatt_65 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for Piatt_65:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: Pisa1_65 Start: 43826, Stop: 44335, Start Num: 21
Candidate Starts for Pisa1_65:
(Start: 21 @43826 has 184 MA's), (32, 43901), (40, 43994), (44, 44012), (49, 44084), (50, 44096), (86, 44285),

Gene: Pisa4_59 Start: 39195, Stop: 39704, Start Num: 21
Candidate Starts for Pisa4_59:
(Start: 21 @39195 has 184 MA's), (32, 39270), (40, 39363), (44, 39381), (49, 39453), (50, 39465), (86, 39654),

Gene: Pixie_66 Start: 43008, Stop: 43526, Start Num: 21
Candidate Starts for Pixie_66:
(Start: 21 @43008 has 184 MA's), (34, 43092), (40, 43176), (44, 43194), (46, 43239), (49, 43266), (50, 43278), (58, 43338), (86, 43476), (90, 43509), (91, 43515),

Gene: Pokerus_65 Start: 43353, Stop: 43862, Start Num: 21
Candidate Starts for Pokerus_65:
(Start: 21 @43353 has 184 MA's), (32, 43428), (37, 43467), (40, 43521), (48, 43599), (49, 43611), (86, 43812),

Gene: Prithvi_67 Start: 43499, Stop: 44008, Start Num: 21

Candidate Starts for Prithvi_67:
(Start: 21 @43499 has 184 MA's), (32, 43574), (37, 43613), (40, 43667), (48, 43745), (49, 43757), (86, 43958),

Gene: Psycho_59 Start: 40378, Stop: 40971, Start Num: 21
Candidate Starts for Psycho_59:
(Start: 16 @40354 has 1 MA's), (Start: 21 @40378 has 184 MA's), (35, 40486), (41, 40558), (45, 40582), (48, 40630), (49, 40642), (50, 40654), (58, 40714), (63, 40759), (69, 40813), (70, 40816), (75, 40843), (81, 40858), (91, 40957),

Gene: QuincyRose_63 Start: 43234, Stop: 43743, Start Num: 21
Candidate Starts for QuincyRose_63:
(Start: 21 @43234 has 184 MA's), (32, 43309), (34, 43318), (37, 43348), (40, 43402), (48, 43480), (49, 43492), (86, 43693), (90, 43726),

Gene: Ramen_66 Start: 42858, Stop: 43367, Start Num: 21
Candidate Starts for Ramen_66:
(Start: 21 @42858 has 184 MA's), (32, 42933), (34, 42942), (37, 42972), (40, 43026), (48, 43104), (49, 43116), (70, 43275), (86, 43317),

Gene: Rando14_61 Start: 39976, Stop: 40557, Start Num: 21
Candidate Starts for Rando14_61:
(Start: 16 @39952 has 1 MA's), (Start: 21 @39976 has 184 MA's), (40, 40144), (41, 40150), (46, 40207), (48, 40222), (49, 40234), (50, 40246), (52, 40258), (58, 40306), (69, 40402), (70, 40405), (85, 40492), (91, 40543),

Gene: Rapunzel97_67 Start: 43309, Stop: 43818, Start Num: 21
Candidate Starts for Rapunzel97_67:
(Start: 21 @43309 has 184 MA's), (32, 43384), (34, 43393), (37, 43423), (40, 43477), (48, 43555), (49, 43567), (86, 43768),

Gene: RegnumDei_78 Start: 46080, Stop: 46646, Start Num: 22
Candidate Starts for RegnumDei_78:
(14, 46044), (Start: 22 @46080 has 8 MA's), (29, 46134), (40, 46242), (50, 46344), (58, 46404), (61, 46434), (65, 46458),

Gene: Reyja_42 Start: 29334, Stop: 30017, Start Num: 22
Candidate Starts for Reyja_42:
(Start: 22 @29334 has 8 MA's), (40, 29496), (44, 29514), (62, 29703), (85, 29913), (89, 29955), (91, 29967), (93, 29994), (94, 30000),

Gene: Richo_68 Start: 43499, Stop: 44026, Start Num: 21
Candidate Starts for Richo_68:
(Start: 21 @43499 has 184 MA's), (32, 43574), (40, 43667), (44, 43685), (49, 43757), (50, 43769), (56, 43811), (58, 43829), (85, 43961),

Gene: Rosmarinus_65 Start: 42999, Stop: 43508, Start Num: 21
Candidate Starts for Rosmarinus_65:
(Start: 21 @42999 has 184 MA's), (32, 43074), (37, 43113), (40, 43167), (48, 43245), (49, 43257), (86, 43458),

Gene: SFuller_70 Start: 45080, Stop: 45724, Start Num: 20
Candidate Starts for SFuller_70:

(Start: 20 @45080 has 3 MA's), (24, 45110), (32, 45155), (33, 45158), (36, 45185), (40, 45254), (49, 45347), (58, 45419),

Gene: SamuelLPlaqson_66 Start: 43745, Stop: 44260, Start Num: 21
Candidate Starts for SamuelLPlaqson_66:
(Start: 21 @43745 has 184 MA's), (32, 43820), (40, 43913), (44, 43931), (48, 43991), (49, 44003), (86, 44204),

Gene: Santhid_41 Start: 27625, Stop: 28305, Start Num: 22
Candidate Starts for Santhid_41:
(Start: 22 @27625 has 8 MA's), (40, 27787), (44, 27805), (62, 27994), (85, 28201), (88, 28231), (89, 28243), (91, 28255), (93, 28282), (94, 28288),

Gene: Scarlett_70 Start: 43927, Stop: 44433, Start Num: 21
Candidate Starts for Scarlett_70:
(Start: 21 @43927 has 184 MA's), (31, 43999), (32, 44002), (34, 44011), (40, 44095), (46, 44158), (48, 44173), (49, 44185), (50, 44197), (52, 44209), (86, 44386),

Gene: SgtBeansprout_55 Start: 40324, Stop: 40845, Start Num: 21
Candidate Starts for SgtBeansprout_55:
(Start: 21 @40324 has 184 MA's), (32, 40399), (34, 40408), (40, 40492), (49, 40582), (58, 40654), (67, 40717), (71, 40744), (85, 40783),

Gene: Shadow1_70 Start: 43271, Stop: 43789, Start Num: 21
Candidate Starts for Shadow1_70:
(Start: 21 @43271 has 184 MA's), (32, 43346), (38, 43394), (40, 43439), (44, 43457), (49, 43529), (50, 43541), (58, 43601), (86, 43739), (90, 43772), (91, 43778),

Gene: Shagrat_82 Start: 45931, Stop: 46494, Start Num: 22
Candidate Starts for Shagrat_82:
(Start: 22 @45931 has 8 MA's), (29, 45985), (40, 46093), (43, 46105), (50, 46195), (61, 46285), (65, 46309),

Gene: Shaobing_68 Start: 43535, Stop: 44062, Start Num: 21
Candidate Starts for Shaobing_68:
(Start: 21 @43535 has 184 MA's), (32, 43610), (40, 43703), (44, 43721), (49, 43793), (50, 43805), (56, 43847), (58, 43865), (85, 43997),

Gene: ShedlockHolmes_68 Start: 43528, Stop: 44040, Start Num: 21
Candidate Starts for ShedlockHolmes_68:
(Start: 21 @43528 has 184 MA's), (40, 43696), (44, 43714), (49, 43786), (50, 43798), (58, 43858), (86, 43990), (90, 44023), (91, 44029),

Gene: ShiaSurprise_66 Start: 43208, Stop: 43717, Start Num: 21
Candidate Starts for ShiaSurprise_66:
(Start: 21 @43208 has 184 MA's), (32, 43283), (37, 43322), (40, 43376), (48, 43454), (49, 43466), (86, 43667),

Gene: SirPhilip_65 Start: 43696, Stop: 44205, Start Num: 21
Candidate Starts for SirPhilip_65:
(Start: 21 @43696 has 184 MA's), (32, 43771), (40, 43864), (44, 43882), (49, 43954), (50, 43966), (59, 44035), (91, 44194),

Gene: Slimphazie_66 Start: 43309, Stop: 43818, Start Num: 21
Candidate Starts for Slimphazie_66:
(Start: 21 @43309 has 184 MA's), (32, 43384), (34, 43393), (37, 43423), (40, 43477), (48, 43555), (49, 43567), (86, 43768),

Gene: SoSeph_60 Start: 42125, Stop: 42691, Start Num: 21
Candidate Starts for SoSeph_60:
(Start: 16 @42101 has 1 MA's), (Start: 21 @42125 has 184 MA's), (40, 42299), (41, 42305), (48, 42377), (49, 42389), (50, 42401), (52, 42413), (58, 42461), (63, 42506), (83, 42590), (91, 42677),

Gene: Spock_65 Start: 43012, Stop: 43521, Start Num: 21
Candidate Starts for Spock_65:
(Start: 21 @43012 has 184 MA's), (32, 43087), (37, 43126), (40, 43180), (48, 43258), (49, 43270), (86, 43471),

Gene: Stinson_67 Start: 43637, Stop: 44149, Start Num: 21
Candidate Starts for Stinson_67:
(Start: 21 @43637 has 184 MA's), (32, 43712), (34, 43721), (37, 43751), (40, 43805), (48, 43883), (49, 43895), (86, 44096),

Gene: Strobilo_69 Start: 45462, Stop: 45980, Start Num: 21
Candidate Starts for Strobilo_69:
(10, 45312), (15, 45435), (Start: 21 @45462 has 184 MA's), (38, 45585), (40, 45627), (43, 45639), (44, 45645), (49, 45717), (50, 45729), (52, 45741), (58, 45789), (86, 45930), (91, 45969),

Gene: Sulley_65 Start: 43072, Stop: 43581, Start Num: 21
Candidate Starts for Sulley_65:
(Start: 21 @43072 has 184 MA's), (32, 43147), (37, 43186), (40, 43240), (49, 43330), (86, 43531),

Gene: Sunflower1121_71 Start: 43417, Stop: 43935, Start Num: 21
Candidate Starts for Sunflower1121_71:
(Start: 21 @43417 has 184 MA's), (32, 43492), (38, 43540), (40, 43585), (44, 43603), (49, 43675), (50, 43687), (58, 43747), (86, 43885), (90, 43918), (91, 43924),

Gene: Syra333_69 Start: 43131, Stop: 43649, Start Num: 21
Candidate Starts for Syra333_69:
(5, 42951), (12, 43017), (Start: 21 @43131 has 184 MA's), (32, 43206), (38, 43254), (40, 43299), (44, 43317), (48, 43377), (49, 43389), (50, 43401), (58, 43461), (86, 43599), (90, 43632), (91, 43638),

Gene: TBond007_63 Start: 43007, Stop: 43525, Start Num: 21
Candidate Starts for TBond007_63:
(Start: 21 @43007 has 184 MA's), (34, 43091), (40, 43175), (44, 43193), (46, 43238), (49, 43265), (50, 43277), (58, 43337), (86, 43475), (90, 43508), (91, 43514),

Gene: TClif_67 Start: 43102, Stop: 43614, Start Num: 21
Candidate Starts for TClif_67:
(Start: 21 @43102 has 184 MA's), (32, 43177), (34, 43186), (39, 43243), (40, 43270), (44, 43288), (49, 43360), (50, 43372), (58, 43432), (85, 43552), (86, 43564), (88, 43579), (90, 43597), (91, 43603),

Gene: TM4_66 Start: 40125, Stop: 40643, Start Num: 21
Candidate Starts for TM4_66:
(10, 39975), (15, 40098), (Start: 21 @40125 has 184 MA's), (38, 40248), (40, 40290), (43, 40302), (44, 40308), (49, 40380), (50, 40392), (52, 40404), (58, 40452), (86, 40593), (91, 40632),

Gene: TPA4_50 Start: 38139, Stop: 38771, Start Num: 23
Candidate Starts for TPA4_50:
(1, 37530), (2, 37686), (8, 37959), (13, 38043), (Start: 23 @38139 has 1 MA's), (43, 38325), (47, 38379), (48, 38385), (49, 38397), (52, 38421), (59, 38478), (62, 38508), (64, 38517), (78, 38622),

Gene: Tachez_65 Start: 42856, Stop: 43365, Start Num: 21
Candidate Starts for Tachez_65:
(Start: 21 @42856 has 184 MA's), (32, 42931), (37, 42970), (40, 43024), (48, 43102), (49, 43114), (86, 43315),

Gene: TaiwanKao_68 Start: 43561, Stop: 44070, Start Num: 21
Candidate Starts for TaiwanKao_68:
(Start: 21 @43561 has 184 MA's), (32, 43636), (37, 43675), (40, 43729), (48, 43807), (49, 43819), (54, 43867), (86, 44020),

Gene: Tarzan_42 Start: 28732, Stop: 29412, Start Num: 22
Candidate Starts for Tarzan_42:
(Start: 22 @28732 has 8 MA's), (40, 28894), (44, 28912), (62, 29101), (88, 29338), (89, 29350), (91, 29362), (93, 29389), (94, 29395),

Gene: Teejan_56 Start: 42937, Stop: 43458, Start Num: 21
Candidate Starts for Teejan_56:
(Start: 21 @42937 has 184 MA's), (32, 43012), (34, 43021), (40, 43105), (49, 43195), (58, 43267), (67, 43330), (71, 43357), (85, 43396),

Gene: Thyatira_62 Start: 44083, Stop: 44655, Start Num: 21
Candidate Starts for Thyatira_62:
(Start: 16 @44059 has 1 MA's), (Start: 21 @44083 has 184 MA's), (40, 44257), (41, 44263), (47, 44329), (48, 44335), (49, 44347), (50, 44359), (52, 44371), (58, 44419), (63, 44464), (76, 44542), (83, 44554), (91, 44641),

Gene: Tierra_69 Start: 43632, Stop: 44150, Start Num: 21
Candidate Starts for Tierra_69:
(5, 43452), (12, 43518), (Start: 21 @43632 has 184 MA's), (32, 43707), (38, 43755), (40, 43800), (44, 43818), (49, 43890), (58, 43962), (86, 44100), (90, 44133), (91, 44139),

Gene: Tigress9_70 Start: 43448, Stop: 43966, Start Num: 21
Candidate Starts for Tigress9_70:
(5, 43268), (7, 43277), (12, 43334), (Start: 21 @43448 has 184 MA's), (32, 43523), (38, 43571), (40, 43616), (44, 43634), (48, 43694), (49, 43706), (50, 43718), (58, 43778), (86, 43916), (90, 43949), (91, 43955),

Gene: TingHuaYa_69 Start: 42808, Stop: 43320, Start Num: 21
Candidate Starts for TingHuaYa_69:
(Start: 21 @42808 has 184 MA's), (32, 42883), (34, 42892), (40, 42976), (44, 42994), (49, 43066), (50, 43078), (56, 43120), (86, 43267),

Gene: TiniBug_66 Start: 43741, Stop: 44256, Start Num: 21
Candidate Starts for TiniBug_66:
(Start: 21 @43741 has 184 MA's), (32, 43816), (40, 43909), (44, 43927), (48, 43987), (49, 43999), (86, 44200),

Gene: TinyDot_45 Start: 30672, Stop: 31235, Start Num: 23
Candidate Starts for TinyDot_45:
(3, 30327), (4, 30393), (12, 30549), (Start: 23 @30672 has 1 MA's), (40, 30846), (56, 30993), (85, 31191),

Gene: Tiri_66 Start: 43145, Stop: 43654, Start Num: 21
Candidate Starts for Tiri_66:
(Start: 21 @43145 has 184 MA's), (32, 43220), (37, 43259), (40, 43313), (48, 43391), (49, 43403), (86, 43604),

Gene: Topper_65 Start: 43011, Stop: 43520, Start Num: 21
Candidate Starts for Topper_65:
(Start: 21 @43011 has 184 MA's), (32, 43086), (37, 43125), (40, 43179), (48, 43257), (49, 43269), (86, 43470),

Gene: Torres_57 Start: 42938, Stop: 43459, Start Num: 21
Candidate Starts for Torres_57:
(Start: 21 @42938 has 184 MA's), (32, 43013), (34, 43022), (40, 43106), (49, 43196), (58, 43268), (67, 43331), (71, 43358), (85, 43397),

Gene: TreyKay_67 Start: 43499, Stop: 44008, Start Num: 21
Candidate Starts for TreyKay_67:
(Start: 21 @43499 has 184 MA's), (32, 43574), (37, 43613), (40, 43667), (48, 43745), (49, 43757), (86, 43958),

Gene: TribleTrouble_67 Start: 44010, Stop: 44528, Start Num: 21
Candidate Starts for TribleTrouble_67:
(Start: 21 @44010 has 184 MA's), (41, 44184), (44, 44196), (46, 44241), (49, 44268), (50, 44280), (58, 44340), (90, 44511), (91, 44517),

Gene: Trice_54 Start: 40325, Stop: 40846, Start Num: 21
Candidate Starts for Trice_54:
(Start: 21 @40325 has 184 MA's), (32, 40400), (34, 40409), (40, 40493), (49, 40583), (58, 40655), (67, 40718), (71, 40745), (85, 40784),

Gene: TruffulaTree_66 Start: 43305, Stop: 43814, Start Num: 21
Candidate Starts for TruffulaTree_66:
(Start: 21 @43305 has 184 MA's), (32, 43380), (34, 43389), (37, 43419), (40, 43473), (48, 43551), (49, 43563), (86, 43764),

Gene: Twitch_65 Start: 43013, Stop: 43522, Start Num: 21
Candidate Starts for Twitch_65:
(Start: 21 @43013 has 184 MA's), (32, 43088), (37, 43127), (40, 43181), (48, 43259), (49, 43271), (86, 43472),

Gene: Unicorn_67 Start: 42757, Stop: 43275, Start Num: 21
Candidate Starts for Unicorn_67:
(5, 42577), (12, 42643), (Start: 21 @42757 has 184 MA's), (32, 42832), (38, 42880), (40, 42925), (44, 42943), (49, 43015), (50, 43027), (58, 43087), (86, 43225), (90, 43258), (91, 43264),

Gene: Urkel_66 Start: 43745, Stop: 44260, Start Num: 21
Candidate Starts for Urkel_66:

(Start: 21 @43745 has 184 MA's), (32, 43820), (40, 43913), (44, 43931), (48, 43991), (49, 44003), (86, 44204),

Gene: Validus_70 Start: 43876, Stop: 44394, Start Num: 21
Candidate Starts for Validus_70:
(Start: 21 @43876 has 184 MA's), (30, 43939), (32, 43951), (34, 43960), (38, 43999), (40, 44044), (44, 44062), (49, 44134), (50, 44146), (56, 44188), (58, 44206), (85, 44332),

Gene: Veliki_67 Start: 43278, Stop: 43787, Start Num: 21
Candidate Starts for Veliki_67:
(Start: 21 @43278 has 184 MA's), (32, 43353), (34, 43362), (37, 43392), (40, 43446), (48, 43524), (49, 43536), (86, 43737),

Gene: ViviJ_58 Start: 39842, Stop: 40417, Start Num: 21
Candidate Starts for ViviJ_58:
(Start: 16 @39818 has 1 MA's), (Start: 21 @39842 has 184 MA's), (35, 39950), (41, 40022), (45, 40046), (48, 40094), (49, 40106), (52, 40130), (58, 40178), (63, 40223), (81, 40313), (91, 40406),

Gene: Waterfoul_61 Start: 42187, Stop: 42753, Start Num: 21
Candidate Starts for Waterfoul_61:
(Start: 16 @42163 has 1 MA's), (Start: 21 @42187 has 184 MA's), (40, 42361), (41, 42367), (48, 42439), (49, 42451), (50, 42463), (52, 42475), (58, 42523), (63, 42568), (83, 42652), (91, 42739),

Gene: Ximenita_71 Start: 43457, Stop: 43978, Start Num: 21
Candidate Starts for Ximenita_71:
(5, 43277), (Start: 21 @43457 has 184 MA's), (32, 43532), (38, 43580), (40, 43625), (44, 43643), (49, 43715), (50, 43727), (58, 43787), (86, 43928), (90, 43961), (91, 43967),

Gene: YoureAdopted_65 Start: 43424, Stop: 43933, Start Num: 21
Candidate Starts for YoureAdopted_65:
(Start: 21 @43424 has 184 MA's), (32, 43499), (37, 43538), (40, 43592), (48, 43670), (49, 43682), (86, 43883),

Gene: Yuna_70 Start: 44572, Stop: 45099, Start Num: 21
Candidate Starts for Yuna_70:
(Start: 21 @44572 has 184 MA's), (32, 44647), (38, 44695), (40, 44740), (43, 44752), (44, 44758), (49, 44830), (50, 44842), (67, 44965), (91, 45088),

Gene: Yunkel11_70 Start: 43327, Stop: 43848, Start Num: 21
Candidate Starts for Yunkel11_70:
(Start: 21 @43327 has 184 MA's), (32, 43402), (40, 43495), (44, 43513), (49, 43585), (50, 43597), (56, 43639), (86, 43795),

Gene: Zabiza_60 Start: 39161, Stop: 39670, Start Num: 21
Candidate Starts for Zabiza_60:
(Start: 21 @39161 has 184 MA's), (32, 39236), (34, 39245), (37, 39275), (40, 39329), (48, 39407), (49, 39419), (70, 39578), (86, 39620),

Gene: Zavala_68 Start: 43583, Stop: 44092, Start Num: 21
Candidate Starts for Zavala_68:
(Start: 21 @43583 has 184 MA's), (32, 43658), (34, 43667), (37, 43697), (40, 43751), (48, 43829), (49, 43841), (86, 44042),

Gene: ZoeJ_67 Start: 44866, Stop: 45384, Start Num: 21
Candidate Starts for ZoeJ_67:
(10, 44716), (Start: 21 @44866 has 184 MA's), (38, 44989), (40, 45031), (42, 45040), (43, 45043), (44, 45049), (49, 45121), (50, 45133), (52, 45145), (58, 45193), (86, 45334), (91, 45373),