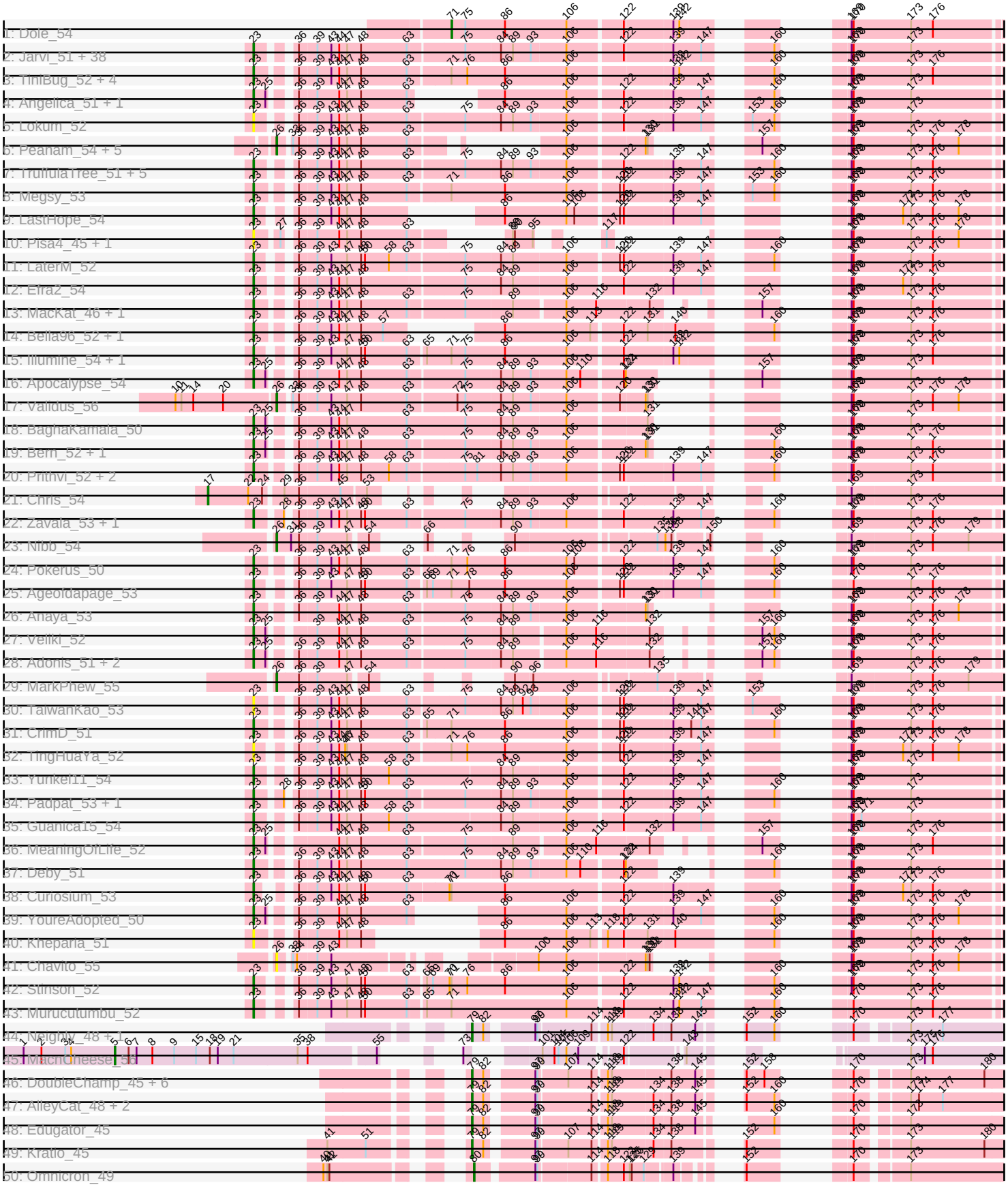
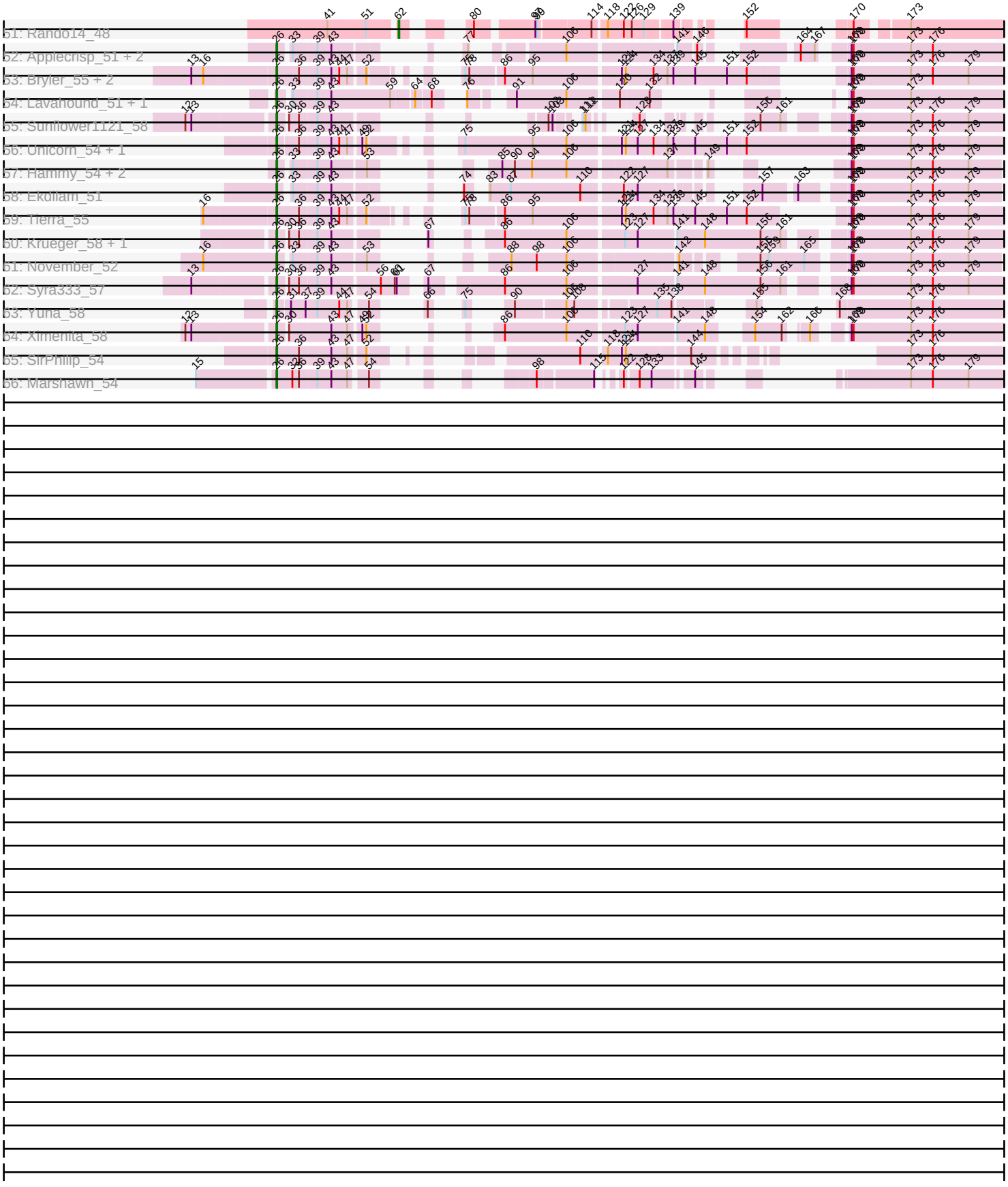
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1: Dole_54
2: Jarvi_51 + 38
3: TiniBug_52 + 4
4: Angelica_51 + 1
5: Lokum_52
6: Peanam_54 + 5
7: TruffulaTree_51 + 5
8: Megsy_53
9: LastHope_54
10: Pisa4_45 + 1
11: LaterM_52
12: Elra2_54
13: MacKat_46 + 1
14: Bella96_52 + 1
15: Illumine_54 + 1
16: Apocalypse_54
17: Validus_56
18: BaghaKamala_50
19: Bem_52 + 1
20: Prithvi_52 + 2
21: Chris_54
22: Zavala_53 + 1
23: Nibb_54
24: Pokerus_50
25: Ageoldapage_53
26: Anaya_53
27: Velliki_52
28: Adonis_51 + 2
29: MarkPhew_55
30: TaiwanKao_53
31: ChimD_51
32: TingHuaYa_52
33: Yunkei11_54
34: Paopat_53 + 1
35: Guanica15_54
36: MeaningOfLife_52
37: Deby_51
38: Curiosium_53
39: YoureAdopted_50
40: Khepania_51
41: Chavito_55
42: Stinson_52
43: Murucutumbu_52
44: Neighly_48 + 1
45: MachCheese_50
46: DoubleChamp_45 + 6
47: AlleyCat_48 + 2
48: Edugator_45
49: Kratio_45
50: Omnicron_49

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51: Rando14_48
52: Applecrisp_51 + 2
53: Bryler_55 + 2
54: Lavahound_51 + 1
55: Sunflower1121_58
56: Unicorn_54 + 1
57: Hammy_54 + 2
58: Ekdilam_51
59: Tierra_55
60: Krueger_58 + 1
61: November_52
62: Syra333_57
63: Yuna_58
64: Ximenita_58
65: SirPhilip_54
66: Marshawn_54

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 347350 Report

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

Pham number 347350 has 148 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Dole_54
• Track 2 : Jarvi_51, Peel_51, Rosmarinus_51, CREW_51, Boiiii_51, Dalmuri_51, BGlluviae_51, Asayake_51, Hyperbowlee_51, Jeckyll_51, AlishaPH_51, Atiba_52, ActinUp_51, BEEST_51, Zabiza_46, Joy99_51, Inky_51, Lunahalos_51, JAWS_51, Capricorn_51, Blizzard_51, Belladonna_51, CallaLilly_51, Beezoo_53, Durfee_51, Adephagia_51, Geraldini_54, Tachez_51, Homura_51, Spock_51, Twitch_51, HedwigODU_51, Topper_51, ShiaSurprise_52, Piatt_51, Padfoot_51, Llorens_51, Ramen_52, CaseJules_53
• Track 3 : TiniBug_52, DrHayes_52, Anma_52, SamuelLPlaqson_52, Urkel_52
• Track 4 : Angelica_51, Sulley_51
• Track 5 : Lokum_52
• Track 6 : Peanam_54, Dartin_54, Shaobing_54, Richo_54, McMater_54, Niklas_54
• Track 7 : TruffulaTree_51, Tiri_52, Rapunzel97_52, BarrelRoll_51, Slimphazie_51, Jayhawk_52
• Track 8 : Megsy_53
• Track 9 : LastHope_54
• Track 10 : Pisa4_45, Pisa1_51
• Track 11 : LaterM_52
• Track 12 : Efra2_54
• Track 13 : MacKat_46, Clipper_54
• Track 14 : Bella96_52, DartGoblin_53
• Track 15 : Illumine_54, Devera_56
• Track 16 : Apocalypse_54
• Track 17 : Validus_56
• Track 18 : BaghaKamala_50
• Track 19 : Bern_52, CheetoDust_50
• Track 20 : Prithvi_52, LindNT_50, TreyKay_52
• Track 21 : Chris_54
• Track 22 : Zavala_53, Mynx_52
• Track 23 : Nibb_54
• Track 24 : Pokerus_50
• Track 25 : Ageofdapage_53
• Track 26 : Anaya_53
• Track 27 : Veliki_52
• Track 28 : Adonis_51, Ganymede_52, QuincyRose_50
• Track 29 : MarkPhew_55
• Track 30 : TaiwanKao_53

• Track 31 : CrimD_51
• Track 32 : TingHuaYa_52
• Track 33 : Yunkel11_54
• Track 34 : Padpat_53, Emerson_52
• Track 35 : Guanica15_54
• Track 36 : MeaningOfLife_52
• Track 37 : Deby_51
• Track 38 : Curiosium_53
• Track 39 : YoureAdopted_50
• Track 40 : Kheparia_51
• Track 41 : Chavito_55
• Track 42 : Stinson_52
• Track 43 : Murucutumbu_52
• Track 44 : Neighly_48, Larva_47
• Track 45 : MacnCheese_56
• Track 46 : DoubleChamp_45, Agent47_48, BananenDer11_48, LilDirt_47, ViviJ_47, Collard_46, InvictusManeo_46
• Track 47 : AlleyCat_48, Psycho_46, Dadosky_48
• Track 48 : Edugator_45
• Track 49 : Kratio_45
• Track 50 : Omnicron_49
• Track 51 : Rando14_48
• Track 52 : Applecrisp_51, Fefferhead_52, Ellie_50
• Track 53 : Bryler_55, Cain_55, Phrank_55
• Track 54 : Lavahound_51, Amgine_52
• Track 55 : Sunflower1121_58
• Track 56 : Unicorn_54, PhelpsODU_54
• Track 57 : Hammy_54, DarthP_54, Amohnition_54
• Track 58 : Ekdilam_51
• Track 59 : Tierra_55
• Track 60 : Krueger_58, Tigress9_57
• Track 61 : November_52
• Track 62 : Syra333_57
• Track 63 : Yuna_58
• Track 64 : Ximenita_58
• Track 65 : SirPhilip_54
• Track 66 : Marshawn_54

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

The start number called the most often in the published annotations is 23, it was called in 89 of the 139 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_51, Adephagia_51, Adonis_51, Ageofdapage_53, AlishaPH_51, Anaya_53, Angelica_51, Anma_52, Apocalypse_54, Asayake_51, Atiba_52, BEEST_51, BGlluviae_51, BaghaKamala_50, BarrelRoll_51, Beezoo_53, Bella96_52, Belladonna_51, Bern_52, Blizzard_51, Boiiii_51, CREW_51, CallaLilly_51, Capricorn_51, CaseJules_53, CheetoDust_50, Clipper_54, CrimD_51, Curiosium_53, Dalmuri_51, DartGoblin_53, Deby_51, Devera_56, DrHayes_52, Durfee_51,

Efra2_54, Emerson_52, Ganymede_52, Geraldini_54, Guanica15_54, HedwigODU_51, Homura_51, Hyperbowlee_51, Illumine_54, Inky_51, JAWS_51, Jarvi_51, Jayhawk_52, Jeckyll_51, Joy99_51, Kheparia_51, LastHope_54, LaterM_52, LindNT_50, Llorens_51, Lokum_52, Lunahalos_51, MacKat_46, MeaningOfLife_52, Megsy_53, Murucutumbu_52, Mynx_52, Padfoot_51, Padpat_53, Peel_51, Piatt_51, Pisa1_51, Pisa4_45, Pokerus_50, Prithvi_52, QuincyRose_50, Ramen_52, Rapunzel97_52, Rosmarinus_51, SamuelLPlaqson_52, ShiaSurprise_52, Slimphazie_51, Spock_51, Stinson_52, Sulley_51, Tachez_51, TaiwanKao_53, TingHuaYa_52, TiniBug_52, Tiri_52, Topper_51, TreyKay_52, TruffulaTree_51, Twitch_51, Urkel_52, Veliki_52, YoureAdopted_50, Yunkel11_54, Zabiza_46, Zavala_53,

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

Genes that do not have the "Most Annotated" start:
• Agent47_48, AlleyCat_48, Amgine_52, Amohnition_54, Applecrisp_51, BananenDer11_48, Bryler_55, Cain_55, Chavito_55, Chris_54, Collard_46, Dadosky_48, DarthP_54, Dartin_54, Dole_54, DoubleChamp_45, Edugator_45, Ekdilam_51, Ellie_50, Fefferhead_52, Hammy_54, InvictusManeo_46, Kratio_45, Krueger_58, Larva_47, Lavahound_51, LilDirt_47, MacnCheese_56, MarkPhew_55, Marshawn_54, McMater_54, Neighly_48, Nibb_54, Niklas_54, November_52, Omnicron_49, Peanam_54, PhelpsODU_54, Phrank_55, Psycho_46, Rando14_48, Richo_54, Shaobing_54, SirPhilip_54, Sunflower1121_58, Syra333_57, Tierra_55, Tigress9_57, Unicorn_54, Validus_56, ViviJ_47, Ximenita_58, Yuna_58,

Summary by start number:

Start 5:
• Found in 1 of 148 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MacnCheese_56 (K3),

Start 17:
• Found in 1 of 148 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chris_54 (K1),

Start 23:
• Found in 95 of 148 (64.2%) of genes in pham
• Manual Annotations of this start: 89 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ActinUp_51 (K1), Adephagia_51 (K1), Adonis_51 (K1), Ageofdapage_53 (K1), AlishaPH_51 (K1), Anaya_53 (K1), Angelica_51 (K1), Anma_52 (K1), Apocalypse_54 (K1), Asayake_51 (K1), Atiba_52 (K1), BEEST_51 (K1), BGlluviae_51 (K1), BaghaKamala_50 (K1), BarrelRoll_51 (K1), Beezoo_53 (K1), Bella96_52 (K1), Belladonna_51 (K1), Bern_52 (K1), Blizzard_51 (K1), Boiiii_51 (K1), CREW_51 (K1), CallaLilly_51 (K1), Capricorn_51 (K1), CaseJules_53 (K1), CheetoDust_50 (K1), Clipper_54 (K1), CrimD_51 (K1), Curiosium_53 (K1), Dalmuri_51 (K1), DartGoblin_53 (K1), Deby_51 (K1), Devera_56 (K1), DrHayes_52 (K1), Durfee_51 (K1), Efra2_54 (K1), Emerson_52 (K1),

Ganymede_52 (K1), Geraldini_54 (K1), Guanica15_54 (K1), HedwigODU_51 (K1), Homura_51 (K1), Hyperbowlee_51 (K1), Illumine_54 (K1), Inky_51 (K1), JAWS_51 (K1), Jarvi_51 (K1), Jayhawk_52 (K1), Jeckyll_51 (K1), Joy99_51 (K1), Kheparia_51 (K1), LastHope_54 (K1), LaterM_52 (K1), LindNT_50 (K1), Llorens_51 (K1), Lokum_52 (K1), Lunahalos_51 (K1), MacKat_46 (K1), MeaningOfLife_52 (K1), Megsy_53 (K1), Murucutumbu_52 (K1), Mynx_52 (K1), Padfoot_51 (K1), Padpat_53 (K1), Peel_51 (K1), Piatt_51 (K1), Pisa1_51 (K1), Pisa4_45 (K1), Pokerus_50 (K1), Prithvi_52 (K1), QuincyRose_50 (K1), Ramen_52 (K1), Rapunzel97_52 (K1), Rosmarinus_51 (K1), SamuelLPlaqson_52 (K1), ShiaSurprise_52 (K1), Slimphazie_51 (K1), Spock_51 (K1), Stinson_52 (K1), Sulley_51 (K1), Tachez_51 (K1), TaiwanKao_53 (K1), TingHuaYa_52 (K1), TiniBug_52 (K1), Tiri_52 (K1), Topper_51 (K1), TreyKay_52 (K1), TruffulaTree_51 (K1), Twitch_51 (K1), Urkel_52 (K1), Veliki_52 (K1), YoureAdopted_50 (K1), Yunkel11_54 (K1), Zabiza_46 (K1), Zavala_53 (K1),

Start 26:
• Found in 34 of 148 (23.0%) of genes in pham
• Manual Annotations of this start: 33 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_52 (K6), Amohnition_54 (K6), Applecrisp_51 (K6), Bryler_55 (K6), Cain_55 (K6), Chavito_55 (K1), DarthP_54 (K6), Dartin_54 (K1), Ekdilam_51 (K6), Ellie_50 (K6), Fefferhead_52 (K6), Hammy_54 (K6), Krueger_58 (K6), Lavahound_51 (K6), MarkPhew_55 (K1), Marshawn_54 (K6), McMater_54 (K1), Nibb_54 (K1), Niklas_54 (K1), November_52 (K6), Peanam_54 (K1), PhelpsODU_54 (K6), Phrank_55 (K6), Richo_54 (K1), Shaobing_54 (K1), SirPhilip_54 (K6), Sunflower1121_58 (K6), Syra333_57 (K6), Tierra_55 (K6), Tigress9_57 (K6), Unicorn_54 (K6), Validus_56 (K1), Ximenita_58 (K6), Yuna_58 (K6),

Start 62:
• Found in 1 of 148 (0.7%) of genes in pham
• Manual Annotations of this start: 1 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rando14_48 (K5),

Start 71:
• Found in 16 of 148 (10.8%) of genes in pham
• Manual Annotations of this start: 1 of 139
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Dole_54 (K1),

Start 79:
• Found in 14 of 148 (9.5%) of genes in pham
• Manual Annotations of this start: 12 of 139
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Agent47_48 (K5), AlleyCat_48 (K5), BananenDer11_48 (K5), Collard_46 (K5), Dadosky_48 (K5), DoubleChamp_45 (K5), Edugator_45 (K5), InvictusManeo_46 (K5), Kratio_45 (K5), Larva_47 (K5), LilDirt_47 (K5), Neighly_48 (K3), Psycho_46 (K5), ViviJ_47 (K5),

Start 80:
• Found in 2 of 148 (1.4%) of genes in pham
• Manual Annotations of this start: 1 of 139

• Called 50.0% of time when present
• Phage (with cluster) where this start called: Omnicron_49 (K5),

Summary by clusters:

There are 4 clusters represented in this pham: K3, K1, K6, K5,

Info for manual annotations of cluster K1:
•Start number 17 was manually annotated 1 time for cluster K1.
•Start number 23 was manually annotated 89 times for cluster K1.
•Start number 26 was manually annotated 9 times for cluster K1.
•Start number 71 was manually annotated 1 time for cluster K1.

Info for manual annotations of cluster K3:
•Start number 5 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K5:
•Start number 62 was manually annotated 1 time for cluster K5.
•Start number 79 was manually annotated 12 times for cluster K5.
•Start number 80 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 26 was manually annotated 24 times for cluster K6.

Gene Information:

Gene: ActinUp_51 Start: 37616, Stop: 38557, Start Num: 23
Candidate Starts for ActinUp_51:
(Start: 23 @37616 has 89 MA's), (36, 37655), (39, 37679), (43, 37700), (44, 37712), (47, 37724), (48, 37745), (63, 37814), (75, 37892), (84, 37943), (89, 37961), (93, 37988), (106, 38039), (122, 38117), (139, 38186), (147, 38228), (160, 38291), (169, 38324), (170, 38327), (173, 38414),

Gene: Adephagia_51 Start: 37613, Stop: 38554, Start Num: 23
Candidate Starts for Adephagia_51:
(Start: 23 @37613 has 89 MA's), (36, 37652), (39, 37676), (43, 37697), (44, 37709), (47, 37721), (48, 37742), (63, 37811), (75, 37889), (84, 37940), (89, 37958), (93, 37985), (106, 38036), (122, 38114), (139, 38183), (147, 38225), (160, 38288), (169, 38321), (170, 38324), (173, 38411),

Gene: Adonis_51 Start: 37911, Stop: 38798, Start Num: 23
Candidate Starts for Adonis_51:
(Start: 23 @37911 has 89 MA's), (25, 37929), (36, 37953), (39, 37977), (44, 38010), (47, 38022), (48, 38043), (63, 38112), (75, 38190), (84, 38241), (89, 38259), (106, 38331), (116, 38376), (132, 38454), (157, 38514), (160, 38532), (169, 38565), (170, 38568), (173, 38655), (176, 38688),

Gene: Agent47_48 Start: 36423, Stop: 37028, Start Num: 79
Candidate Starts for Agent47_48:
(Start: 79 @36423 has 12 MA's), (82, 36438), (97, 36498), (99, 36501), (107, 36543), (114, 36576), (118, 36594), (119, 36600), (138, 36684), (145, 36720), (152, 36744), (158, 36771), (170, 36822), (173, 36888), (180, 36999),

Gene: Ageofdapage_53 Start: 38596, Stop: 39540, Start Num: 23

Candidate Starts for Ageofdapage_53:
(Start: 23 @38596 has 89 MA's), (36, 38632), (39, 38656), (43, 38677), (47, 38701), (48, 38722), (50, 38728), (63, 38791), (65, 38812), (69, 38821), (Start: 71 @38848 has 1 MA's), (78, 38875), (86, 38929), (106, 39022), (120, 39094), (122, 39100), (139, 39169), (147, 39211), (160, 39274), (170, 39310), (173, 39397), (176, 39430),

Gene: AlishaPH_51 Start: 37886, Stop: 38827, Start Num: 23
Candidate Starts for AlishaPH_51:
(Start: 23 @37886 has 89 MA's), (36, 37925), (39, 37949), (43, 37970), (44, 37982), (47, 37994), (48, 38015), (63, 38084), (75, 38162), (84, 38213), (89, 38231), (93, 38258), (106, 38309), (122, 38387), (139, 38456), (147, 38498), (160, 38561), (169, 38594), (170, 38597), (173, 38684),

Gene: AlleyCat_48 Start: 36277, Stop: 36879, Start Num: 79
Candidate Starts for AlleyCat_48:
(Start: 79 @36277 has 12 MA's), (82, 36292), (97, 36352), (99, 36355), (114, 36430), (118, 36448), (119, 36454), (134, 36514), (138, 36538), (145, 36574), (152, 36598), (160, 36640), (170, 36676), (173, 36742), (174, 36754), (177, 36790),

Gene: Amgine_52 Start: 38804, Stop: 39586, Start Num: 26
Candidate Starts for Amgine_52:
(Start: 26 @38804 has 33 MA's), (33, 38819), (39, 38852), (43, 38873), (59, 38960), (64, 38990), (68, 39011), (76, 39029), (91, 39071), (106, 39146), (120, 39218), (132, 39260), (169, 39341), (170, 39344), (173, 39431),

Gene: Amohnition_54 Start: 38811, Stop: 39545, Start Num: 26
Candidate Starts for Amohnition_54:
(Start: 26 @38811 has 33 MA's), (33, 38826), (39, 38859), (43, 38880), (53, 38928), (85, 38988), (90, 39003), (94, 39027), (106, 39075), (137, 39213), (149, 39255), (169, 39306), (170, 39309), (173, 39393), (176, 39426), (179, 39480),

Gene: Anaya_53 Start: 38213, Stop: 39073, Start Num: 23
Candidate Starts for Anaya_53:
(Start: 23 @38213 has 89 MA's), (36, 38255), (39, 38279), (44, 38312), (47, 38324), (48, 38345), (63, 38414), (75, 38492), (84, 38543), (89, 38561), (93, 38588), (106, 38639), (130, 38747), (131, 38750), (169, 38840), (170, 38843), (173, 38930), (176, 38963), (178, 39002),

Gene: Angelica_51 Start: 37843, Stop: 38703, Start Num: 23
Candidate Starts for Angelica_51:
(Start: 23 @37843 has 89 MA's), (25, 37861), (36, 37885), (39, 37909), (44, 37942), (47, 37954), (48, 37975), (63, 38044), (86, 38092), (106, 38185), (122, 38263), (139, 38332), (147, 38374), (160, 38437), (169, 38470), (170, 38473), (173, 38560),

Gene: Anma_52 Start: 38502, Stop: 39452, Start Num: 23
Candidate Starts for Anma_52:
(Start: 23 @38502 has 89 MA's), (36, 38544), (39, 38568), (43, 38589), (44, 38601), (47, 38613), (48, 38634), (63, 38703), (Start: 71 @38760 has 1 MA's), (76, 38784), (86, 38841), (106, 38934), (139, 39081), (142, 39090), (160, 39186), (169, 39219), (170, 39222), (173, 39309), (176, 39342),

Gene: Apocalypse_54 Start: 38622, Stop: 39491, Start Num: 23
Candidate Starts for Apocalypse_54:
(Start: 23 @38622 has 89 MA's), (25, 38640), (36, 38664), (39, 38688), (44, 38721), (47, 38733), (48, 38754), (63, 38823), (75, 38901), (84, 38952), (89, 38970), (93, 38997), (106, 39048), (110, 39069), (122, 39126), (124, 39129), (157, 39207), (169, 39258), (170, 39261), (173, 39348),

Gene: Applecrisp_51 Start: 38300, Stop: 39112, Start Num: 26
Candidate Starts for Applecrisp_51:
(Start: 26 @38300 has 33 MA's), (33, 38315), (39, 38348), (43, 38369), (77, 38447), (106, 38540), (141, 38687), (146, 38711), (164, 38807), (167, 38828), (169, 38858), (170, 38861), (173, 38945), (176, 38978),

Gene: Asayake_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Asayake_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Atiba_52 Start: 37576, Stop: 38517, Start Num: 23
Candidate Starts for Atiba_52:
(Start: 23 @37576 has 89 MA's), (36, 37615), (39, 37639), (43, 37660), (44, 37672), (47, 37684), (48, 37705), (63, 37774), (75, 37852), (84, 37903), (89, 37921), (93, 37948), (106, 37999), (122, 38077), (139, 38146), (147, 38188), (160, 38251), (169, 38284), (170, 38287), (173, 38374),

Gene: BEEST_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for BEEST_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: BGlluviae_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for BGlluviae_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: BaghaKamala_50 Start: 37051, Stop: 37917, Start Num: 23
Candidate Starts for BaghaKamala_50:
(Start: 23 @37051 has 89 MA's), (25, 37069), (36, 37093), (43, 37138), (44, 37150), (47, 37162), (63, 37252), (75, 37336), (84, 37387), (89, 37405), (106, 37483), (131, 37594), (169, 37684), (170, 37687), (173, 37774),

Gene: BananenDer11_48 Start: 36384, Stop: 36989, Start Num: 79
Candidate Starts for BananenDer11_48:
(Start: 79 @36384 has 12 MA's), (82, 36399), (97, 36459), (99, 36462), (107, 36504), (114, 36537), (118, 36555), (119, 36561), (138, 36645), (145, 36681), (152, 36705), (158, 36732), (170, 36783), (173, 36849), (180, 36960),

Gene: BarrelRoll_51 Start: 37599, Stop: 38540, Start Num: 23
Candidate Starts for BarrelRoll_51:
(Start: 23 @37599 has 89 MA's), (36, 37638), (39, 37662), (43, 37683), (44, 37695), (47, 37707), (48, 37728), (63, 37797), (75, 37875), (84, 37926), (89, 37944), (93, 37971), (106, 38022), (122, 38100), (139, 38169), (147, 38211), (160, 38274), (169, 38307), (170, 38310), (173, 38397), (176, 38430),

Gene: Beezoo_53 Start: 38574, Stop: 39515, Start Num: 23
Candidate Starts for Beezoo_53:
(Start: 23 @38574 has 89 MA's), (36, 38613), (39, 38637), (43, 38658), (44, 38670), (47, 38682), (48, 38703), (63, 38772), (75, 38850), (84, 38901), (89, 38919), (93, 38946), (106, 38997), (122, 39075),

(139, 39144), (147, 39186), (160, 39249), (169, 39282), (170, 39285), (173, 39372),

Gene: Bella96_52 Start: 38440, Stop: 39297, Start Num: 23
Candidate Starts for Bella96_52:
(Start: 23 @38440 has 89 MA's), (36, 38482), (39, 38506), (43, 38527), (44, 38539), (47, 38551), (48, 38572), (57, 38605), (86, 38686), (106, 38779), (113, 38815), (122, 38857), (131, 38890), (140, 38929), (160, 39031), (169, 39064), (170, 39067), (173, 39154), (176, 39187),

Gene: Belladonna_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Belladonna_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Bern_52 Start: 36646, Stop: 37506, Start Num: 23
Candidate Starts for Bern_52:
(Start: 23 @36646 has 89 MA's), (25, 36664), (36, 36688), (39, 36712), (43, 36733), (44, 36745), (47, 36757), (48, 36778), (63, 36847), (75, 36925), (84, 36976), (89, 36994), (93, 37021), (106, 37072), (130, 37180), (131, 37183), (160, 37240), (169, 37273), (170, 37276), (173, 37363), (176, 37396),

Gene: Blizzard_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Blizzard_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Boiiii_51 Start: 37930, Stop: 38871, Start Num: 23
Candidate Starts for Boiiii_51:
(Start: 23 @37930 has 89 MA's), (36, 37969), (39, 37993), (43, 38014), (44, 38026), (47, 38038), (48, 38059), (63, 38128), (75, 38206), (84, 38257), (89, 38275), (93, 38302), (106, 38353), (122, 38431), (139, 38500), (147, 38542), (160, 38605), (169, 38638), (170, 38641), (173, 38728),

Gene: Bryler_55 Start: 37408, Stop: 38334, Start Num: 26
Candidate Starts for Bryler_55:
(13, 37285), (16, 37303), (Start: 26 @37408 has 33 MA's), (36, 37441), (39, 37465), (43, 37486), (44, 37498), (47, 37510), (52, 37531), (75, 37588), (78, 37594), (86, 37642), (95, 37684), (121, 37810), (124, 37816), (134, 37858), (137, 37876), (139, 37885), (145, 37918), (151, 37966), (152, 37996), (169, 38062), (170, 38065), (173, 38149), (176, 38182), (179, 38236),

Gene: CREW_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for CREW_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Cain_55 Start: 37396, Stop: 38322, Start Num: 26
Candidate Starts for Cain_55:
(13, 37273), (16, 37291), (Start: 26 @37396 has 33 MA's), (36, 37429), (39, 37453), (43, 37474), (44, 37486), (47, 37498), (52, 37519), (75, 37576), (78, 37582), (86, 37630), (95, 37672), (121, 37798), (124, 37804), (134, 37846), (137, 37864), (139, 37873), (145, 37906), (151, 37954), (152, 37984), (169, 38050), (170, 38053), (173, 38137), (176, 38170), (179, 38224),

Gene: CallaLilly_51 Start: 37654, Stop: 38595, Start Num: 23

Candidate Starts for CallaLilly_51:
(Start: 23 @37654 has 89 MA's), (36, 37693), (39, 37717), (43, 37738), (44, 37750), (47, 37762), (48, 37783), (63, 37852), (75, 37930), (84, 37981), (89, 37999), (93, 38026), (106, 38077), (122, 38155), (139, 38224), (147, 38266), (160, 38329), (169, 38362), (170, 38365), (173, 38452),

Gene: Capricorn_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Capricorn_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: CaseJules_53 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for CaseJules_53:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Chavito_55 Start: 39204, Stop: 39977, Start Num: 26
Candidate Starts for Chavito_55:
(Start: 26 @39204 has 33 MA's), (33, 39219), (34, 39225), (39, 39252), (43, 39273), (100, 39498), (106, 39540), (130, 39648), (131, 39651), (132, 39654), (169, 39744), (170, 39747), (173, 39834), (176, 39867), (178, 39906),

Gene: CheetoDust_50 Start: 37100, Stop: 37960, Start Num: 23
Candidate Starts for CheetoDust_50:
(Start: 23 @37100 has 89 MA's), (25, 37118), (36, 37142), (39, 37166), (43, 37187), (44, 37199), (47, 37211), (48, 37232), (63, 37301), (75, 37379), (84, 37430), (89, 37448), (93, 37475), (106, 37526), (130, 37634), (131, 37637), (160, 37694), (169, 37727), (170, 37730), (173, 37817), (176, 37850),

Gene: Chris_54 Start: 38558, Stop: 39373, Start Num: 17
Candidate Starts for Chris_54:
(Start: 17 @38558 has 1 MA's), (22, 38618), (24, 38639), (29, 38663), (36, 38684), (45, 38741), (53, 38774), (169, 39137), (173, 39224),

Gene: Clipper_54 Start: 38247, Stop: 39134, Start Num: 23
Candidate Starts for Clipper_54:
(Start: 23 @38247 has 89 MA's), (36, 38289), (39, 38313), (43, 38334), (44, 38346), (47, 38358), (48, 38379), (63, 38448), (75, 38526), (89, 38595), (106, 38667), (116, 38712), (132, 38790), (157, 38850), (169, 38901), (170, 38904), (173, 38991), (176, 39024),

Gene: Collard_46 Start: 36384, Stop: 36989, Start Num: 79
Candidate Starts for Collard_46:
(Start: 79 @36384 has 12 MA's), (82, 36399), (97, 36459), (99, 36462), (107, 36504), (114, 36537), (118, 36555), (119, 36561), (138, 36645), (145, 36681), (152, 36705), (158, 36732), (170, 36783), (173, 36849), (180, 36960),

Gene: CrimD_51 Start: 37837, Stop: 38787, Start Num: 23
Candidate Starts for CrimD_51:
(Start: 23 @37837 has 89 MA's), (36, 37879), (39, 37903), (43, 37924), (44, 37936), (47, 37948), (48, 37969), (63, 38038), (65, 38059), (Start: 71 @38095 has 1 MA's), (86, 38176), (106, 38269), (120, 38341), (122, 38347), (139, 38416), (144, 38443), (147, 38458), (160, 38521), (169, 38554), (170, 38557), (173, 38644), (176, 38677),

Gene: Curiosium_53 Start: 36518, Stop: 37456, Start Num: 23
Candidate Starts for Curiosium_53:
(Start: 23 @36518 has 89 MA's), (36, 36548), (39, 36572), (43, 36593), (44, 36605), (47, 36617), (48, 36638), (50, 36644), (63, 36707), (70, 36764), (Start: 71 @36767 has 1 MA's), (86, 36848), (122, 37019), (139, 37088), (169, 37223), (170, 37226), (172, 37301), (173, 37313), (176, 37346),

Gene: Dadosky_48 Start: 36279, Stop: 36881, Start Num: 79
Candidate Starts for Dadosky_48:
(Start: 79 @36279 has 12 MA's), (82, 36294), (97, 36354), (99, 36357), (114, 36432), (118, 36450), (119, 36456), (134, 36516), (138, 36540), (145, 36576), (152, 36600), (160, 36642), (170, 36678), (173, 36744), (174, 36756), (177, 36792),

Gene: Dalmuri_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Dalmuri_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: DartGoblin_53 Start: 38412, Stop: 39269, Start Num: 23
Candidate Starts for DartGoblin_53:
(Start: 23 @38412 has 89 MA's), (36, 38454), (39, 38478), (43, 38499), (44, 38511), (47, 38523), (48, 38544), (57, 38577), (86, 38658), (106, 38751), (113, 38787), (122, 38829), (131, 38862), (140, 38901), (160, 39003), (169, 39036), (170, 39039), (173, 39126), (176, 39159),

Gene: DarthP_54 Start: 38695, Stop: 39429, Start Num: 26
Candidate Starts for DarthP_54:
(Start: 26 @38695 has 33 MA's), (33, 38710), (39, 38743), (43, 38764), (53, 38812), (85, 38872), (90, 38887), (94, 38911), (106, 38959), (137, 39097), (149, 39139), (169, 39190), (170, 39193), (173, 39277), (176, 39310), (179, 39364),

Gene: Dartin_54 Start: 38545, Stop: 39252, Start Num: 26
Candidate Starts for Dartin_54:
(Start: 26 @38545 has 33 MA's), (33, 38560), (36, 38569), (39, 38593), (43, 38614), (44, 38626), (47, 38638), (48, 38659), (63, 38725), (106, 38818), (130, 38926), (131, 38929), (157, 38968), (169, 39019), (170, 39022), (173, 39109), (176, 39142), (178, 39181),

Gene: Deby_51 Start: 37859, Stop: 38731, Start Num: 23
Candidate Starts for Deby_51:
(Start: 23 @37859 has 89 MA's), (36, 37898), (39, 37922), (43, 37943), (44, 37955), (47, 37967), (48, 37988), (63, 38057), (75, 38141), (84, 38192), (89, 38210), (93, 38237), (106, 38288), (110, 38309), (122, 38366), (124, 38369), (160, 38465), (169, 38498), (170, 38501), (173, 38588),

Gene: Devera_56 Start: 38363, Stop: 39304, Start Num: 23
Candidate Starts for Devera_56:
(Start: 23 @38363 has 89 MA's), (36, 38399), (39, 38423), (43, 38444), (47, 38468), (48, 38489), (50, 38495), (63, 38558), (65, 38579), (Start: 71 @38615 has 1 MA's), (75, 38636), (86, 38696), (106, 38789), (122, 38867), (139, 38936), (142, 38945), (169, 39071), (170, 39074), (173, 39161), (176, 39194),

Gene: Dole_54 Start: 38618, Stop: 39307, Start Num: 71
Candidate Starts for Dole_54:
(Start: 71 @38618 has 1 MA's), (75, 38639), (86, 38699), (106, 38792), (122, 38870), (139, 38939), (142, 38948), (169, 39074), (170, 39077), (173, 39164), (176, 39197),

Gene: DoubleChamp_45 Start: 36384, Stop: 36989, Start Num: 79
Candidate Starts for DoubleChamp_45:
(Start: 79 @36384 has 12 MA's), (82, 36399), (97, 36459), (99, 36462), (107, 36504), (114, 36537), (118, 36555), (119, 36561), (138, 36645), (145, 36681), (152, 36705), (158, 36732), (170, 36783), (173, 36849), (180, 36960),

Gene: DrHayes_52 Start: 38502, Stop: 39452, Start Num: 23
Candidate Starts for DrHayes_52:
(Start: 23 @38502 has 89 MA's), (36, 38544), (39, 38568), (43, 38589), (44, 38601), (47, 38613), (48, 38634), (63, 38703), (Start: 71 @38760 has 1 MA's), (76, 38784), (86, 38841), (106, 38934), (139, 39081), (142, 39090), (160, 39186), (169, 39219), (170, 39222), (173, 39309), (176, 39342),

Gene: Durfee_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Durfee_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Edugator_45 Start: 36704, Stop: 37297, Start Num: 79
Candidate Starts for Edugator_45:
(Start: 79 @36704 has 12 MA's), (82, 36719), (97, 36779), (99, 36782), (114, 36857), (118, 36875), (119, 36881), (134, 36941), (138, 36965), (145, 37001), (160, 37058), (170, 37094), (173, 37160),

Gene: Efra2_54 Start: 37447, Stop: 38388, Start Num: 23
Candidate Starts for Efra2_54:
(Start: 23 @37447 has 89 MA's), (36, 37486), (39, 37510), (43, 37531), (44, 37543), (47, 37555), (48, 37576), (75, 37723), (84, 37774), (89, 37792), (106, 37870), (122, 37948), (139, 38017), (147, 38059), (169, 38155), (170, 38158), (172, 38233), (173, 38245), (176, 38278),

Gene: Ekdilam_51 Start: 38242, Stop: 39063, Start Num: 26
Candidate Starts for Ekdilam_51:
(Start: 26 @38242 has 33 MA's), (33, 38254), (39, 38287), (43, 38308), (74, 38380), (83, 38395), (87, 38425), (110, 38527), (122, 38584), (127, 38605), (157, 38722), (163, 38764), (169, 38824), (170, 38827), (173, 38911), (176, 38944), (179, 38998),

Gene: Ellie_50 Start: 37992, Stop: 38804, Start Num: 26
Candidate Starts for Ellie_50:
(Start: 26 @37992 has 33 MA's), (33, 38007), (39, 38040), (43, 38061), (77, 38139), (106, 38232), (141, 38379), (146, 38403), (164, 38499), (167, 38520), (169, 38550), (170, 38553), (173, 38637), (176, 38670),

Gene: Emerson_52 Start: 37607, Stop: 38551, Start Num: 23
Candidate Starts for Emerson_52:
(Start: 23 @37607 has 89 MA's), (28, 37640), (36, 37649), (39, 37673), (43, 37694), (44, 37706), (47, 37718), (48, 37739), (50, 37745), (63, 37808), (75, 37886), (84, 37937), (89, 37955), (93, 37982), (106, 38033), (122, 38111), (139, 38180), (147, 38222), (160, 38285), (169, 38318), (170, 38321), (173, 38408),

Gene: Fefferhead_52 Start: 37942, Stop: 38751, Start Num: 26
Candidate Starts for Fefferhead_52:
(Start: 26 @37942 has 33 MA's), (33, 37957), (39, 37990), (43, 38011), (77, 38089), (106, 38182), (141, 38329), (146, 38353), (164, 38449), (167, 38470), (169, 38497), (170, 38500), (173, 38584),

(176, 38617),

Gene: Ganymede_52 Start: 38046, Stop: 38933, Start Num: 23
Candidate Starts for Ganymede_52:
(Start: 23 @38046 has 89 MA's), (25, 38064), (36, 38088), (39, 38112), (44, 38145), (47, 38157), (48, 38178), (63, 38247), (75, 38325), (84, 38376), (89, 38394), (106, 38466), (116, 38511), (132, 38589), (157, 38649), (160, 38667), (169, 38700), (170, 38703), (173, 38790), (176, 38823),

Gene: Geraldini_54 Start: 38663, Stop: 39604, Start Num: 23
Candidate Starts for Geraldini_54:
(Start: 23 @38663 has 89 MA's), (36, 38702), (39, 38726), (43, 38747), (44, 38759), (47, 38771), (48, 38792), (63, 38861), (75, 38939), (84, 38990), (89, 39008), (93, 39035), (106, 39086), (122, 39164), (139, 39233), (147, 39275), (160, 39338), (169, 39371), (170, 39374), (173, 39461),

Gene: Guanica15_54 Start: 37404, Stop: 38348, Start Num: 23
Candidate Starts for Guanica15_54:
(Start: 23 @37404 has 89 MA's), (36, 37443), (39, 37467), (43, 37488), (44, 37500), (47, 37512), (48, 37533), (58, 37575), (63, 37602), (84, 37734), (89, 37752), (106, 37830), (122, 37908), (139, 37977), (147, 38019), (169, 38115), (170, 38118), (171, 38130), (173, 38205),

Gene: Hammy_54 Start: 38683, Stop: 39417, Start Num: 26
Candidate Starts for Hammy_54:
(Start: 26 @38683 has 33 MA's), (33, 38698), (39, 38731), (43, 38752), (53, 38800), (85, 38860), (90, 38875), (94, 38899), (106, 38947), (137, 39085), (149, 39127), (169, 39178), (170, 39181), (173, 39265), (176, 39298), (179, 39352),

Gene: HedwigODU_51 Start: 37616, Stop: 38557, Start Num: 23
Candidate Starts for HedwigODU_51:
(Start: 23 @37616 has 89 MA's), (36, 37655), (39, 37679), (43, 37700), (44, 37712), (47, 37724), (48, 37745), (63, 37814), (75, 37892), (84, 37943), (89, 37961), (93, 37988), (106, 38039), (122, 38117), (139, 38186), (147, 38228), (160, 38291), (169, 38324), (170, 38327), (173, 38414),

Gene: Homura_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Homura_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Hyperbowlee_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Hyperbowlee_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Illumine_54 Start: 38365, Stop: 39306, Start Num: 23
Candidate Starts for Illumine_54:
(Start: 23 @38365 has 89 MA's), (36, 38401), (39, 38425), (43, 38446), (47, 38470), (48, 38491), (50, 38497), (63, 38560), (65, 38581), (Start: 71 @38617 has 1 MA's), (75, 38638), (86, 38698), (106, 38791), (122, 38869), (139, 38938), (142, 38947), (169, 39073), (170, 39076), (173, 39163), (176, 39196),

Gene: Inky_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Inky_51:

(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: InvictusManeo_46 Start: 36427, Stop: 37032, Start Num: 79
Candidate Starts for InvictusManeo_46:
(Start: 79 @36427 has 12 MA's), (82, 36442), (97, 36502), (99, 36505), (107, 36547), (114, 36580), (118, 36598), (119, 36604), (138, 36688), (145, 36724), (152, 36748), (158, 36775), (170, 36826), (173, 36892), (180, 37003),

Gene: JAWS_51 Start: 37605, Stop: 38546, Start Num: 23
Candidate Starts for JAWS_51:
(Start: 23 @37605 has 89 MA's), (36, 37644), (39, 37668), (43, 37689), (44, 37701), (47, 37713), (48, 37734), (63, 37803), (75, 37881), (84, 37932), (89, 37950), (93, 37977), (106, 38028), (122, 38106), (139, 38175), (147, 38217), (160, 38280), (169, 38313), (170, 38316), (173, 38403),

Gene: Jarvi_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Jarvi_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Jayhawk_52 Start: 37614, Stop: 38555, Start Num: 23
Candidate Starts for Jayhawk_52:
(Start: 23 @37614 has 89 MA's), (36, 37653), (39, 37677), (43, 37698), (44, 37710), (47, 37722), (48, 37743), (63, 37812), (75, 37890), (84, 37941), (89, 37959), (93, 37986), (106, 38037), (122, 38115), (139, 38184), (147, 38226), (160, 38289), (169, 38322), (170, 38325), (173, 38412), (176, 38445),

Gene: Jeckyll_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Jeckyll_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Joy99_51 Start: 37660, Stop: 38601, Start Num: 23
Candidate Starts for Joy99_51:
(Start: 23 @37660 has 89 MA's), (36, 37699), (39, 37723), (43, 37744), (44, 37756), (47, 37768), (48, 37789), (63, 37858), (75, 37936), (84, 37987), (89, 38005), (93, 38032), (106, 38083), (122, 38161), (139, 38230), (147, 38272), (160, 38335), (169, 38368), (170, 38371), (173, 38458),

Gene: Kheparia_51 Start: 35745, Stop: 36545, Start Num: 23
Candidate Starts for Kheparia_51:
(Start: 23 @35745 has 89 MA's), (36, 35787), (39, 35811), (44, 35844), (47, 35856), (48, 35877), (86, 35934), (106, 36027), (113, 36063), (118, 36081), (122, 36105), (131, 36138), (140, 36177), (160, 36279), (169, 36312), (170, 36315), (173, 36402), (176, 36435),

Gene: Kratio_45 Start: 35977, Stop: 36582, Start Num: 79
Candidate Starts for Kratio_45:
(41, 35833), (51, 35890), (Start: 79 @35977 has 12 MA's), (82, 35992), (97, 36052), (99, 36055), (107, 36097), (114, 36130), (118, 36148), (119, 36154), (134, 36214), (138, 36238), (152, 36298), (170, 36376), (173, 36442), (180, 36553),

Gene: Krueger_58 Start: 38393, Stop: 39313, Start Num: 26

Candidate Starts for Krueger_58:
(Start: 26 @38393 has 33 MA's), (30, 38405), (36, 38420), (39, 38444), (43, 38465), (67, 38531), (86, 38576), (106, 38669), (123, 38747), (127, 38765), (141, 38819), (148, 38861), (156, 38945), (161, 38975), (169, 39041), (170, 39044), (173, 39128), (176, 39161), (179, 39215),

Gene: Larva_47 Start: 36146, Stop: 36748, Start Num: 79
Candidate Starts for Larva_47:
(Start: 79 @36146 has 12 MA's), (82, 36161), (97, 36221), (99, 36224), (114, 36299), (118, 36317), (119, 36323), (134, 36383), (138, 36407), (145, 36443), (152, 36467), (160, 36509), (170, 36545), (173, 36611), (177, 36659),

Gene: LastHope_54 Start: 36888, Stop: 37739, Start Num: 23
Candidate Starts for LastHope_54:
(Start: 23 @36888 has 89 MA's), (36, 36924), (39, 36948), (43, 36969), (44, 36981), (47, 36993), (48, 37014), (86, 37128), (106, 37221), (108, 37233), (120, 37293), (122, 37299), (139, 37368), (147, 37410), (169, 37506), (170, 37509), (172, 37584), (173, 37596), (176, 37629), (178, 37668),

Gene: LaterM_52 Start: 38493, Stop: 39431, Start Num: 23
Candidate Starts for LaterM_52:
(Start: 23 @38493 has 89 MA's), (36, 38529), (39, 38553), (43, 38574), (47, 38598), (48, 38619), (50, 38625), (58, 38661), (63, 38688), (75, 38766), (84, 38817), (89, 38835), (106, 38913), (120, 38985), (122, 38991), (139, 39060), (147, 39102), (160, 39165), (169, 39198), (170, 39201), (173, 39288), (176, 39321),

Gene: Lavahound_51 Start: 38925, Stop: 39707, Start Num: 26
Candidate Starts for Lavahound_51:
(Start: 26 @38925 has 33 MA's), (33, 38940), (39, 38973), (43, 38994), (59, 39081), (64, 39111), (68, 39132), (76, 39150), (91, 39192), (106, 39267), (120, 39339), (132, 39381), (169, 39462), (170, 39465), (173, 39552),

Gene: LilDirt_47 Start: 36185, Stop: 36790, Start Num: 79
Candidate Starts for LilDirt_47:
(Start: 79 @36185 has 12 MA's), (82, 36200), (97, 36260), (99, 36263), (107, 36305), (114, 36338), (118, 36356), (119, 36362), (138, 36446), (145, 36482), (152, 36506), (158, 36533), (170, 36584), (173, 36650), (180, 36761),

Gene: LindNT_50 Start: 37816, Stop: 38760, Start Num: 23
Candidate Starts for LindNT_50:
(Start: 23 @37816 has 89 MA's), (36, 37858), (39, 37882), (43, 37903), (44, 37915), (47, 37927), (48, 37948), (58, 37990), (63, 38017), (75, 38095), (81, 38113), (84, 38146), (89, 38164), (93, 38191), (106, 38242), (120, 38314), (122, 38320), (139, 38389), (147, 38431), (160, 38494), (169, 38527), (170, 38530), (173, 38617), (176, 38650),

Gene: Llorens_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Llorens_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: Lokum_52 Start: 37732, Stop: 38673, Start Num: 23
Candidate Starts for Lokum_52:
(Start: 23 @37732 has 89 MA's), (36, 37771), (39, 37795), (43, 37816), (44, 37828), (47, 37840), (48, 37861), (63, 37930), (75, 38008), (84, 38059), (89, 38077), (93, 38104), (106, 38155), (122, 38233),

(139, 38302), (147, 38344), (153, 38374), (160, 38407), (169, 38440), (170, 38443), (173, 38530),

Gene: Lunahalos_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Lunahalos_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: MacKat_46 Start: 33131, Stop: 34018, Start Num: 23
Candidate Starts for MacKat_46:
(Start: 23 @33131 has 89 MA's), (36, 33173), (39, 33197), (43, 33218), (44, 33230), (47, 33242), (48, 33263), (63, 33332), (75, 33410), (89, 33479), (106, 33551), (116, 33596), (132, 33674), (157, 33734), (169, 33785), (170, 33788), (173, 33875), (176, 33908),

Gene: MacnCheese_56 Start: 39191, Stop: 40129, Start Num: 5
Candidate Starts for MacnCheese_56:
(1, 39053), (2, 39080), (3, 39116), (4, 39125), (Start: 5 @39191 has 1 MA's), (6, 39212), (7, 39224), (8, 39248), (9, 39281), (15, 39314), (18, 39335), (19, 39347), (21, 39371), (35, 39467), (38, 39482), (55, 39572), (73, 39590), (101, 39653), (104, 39668), (105, 39674), (106, 39686), (109, 39704), (122, 39752), (143, 39827), (173, 39986), (175, 40007), (176, 40019),

Gene: MarkPhew_55 Start: 38390, Stop: 39106, Start Num: 26
Candidate Starts for MarkPhew_55:
(Start: 26 @38390 has 33 MA's), (36, 38423), (39, 38447), (47, 38492), (54, 38513), (90, 38570), (96, 38594), (135, 38759), (169, 38870), (173, 38957), (176, 38990), (179, 39044),

Gene: Marshawn_54 Start: 38519, Stop: 39190, Start Num: 26
Candidate Starts for Marshawn_54:
(15, 38411), (Start: 26 @38519 has 33 MA's), (32, 38543), (36, 38552), (39, 38576), (43, 38597), (47, 38621), (54, 38642), (98, 38723), (115, 38801), (122, 38816), (128, 38834), (133, 38852), (145, 38903), (173, 39047), (176, 39080), (179, 39134),

Gene: McMater_54 Start: 38545, Stop: 39252, Start Num: 26
Candidate Starts for McMater_54:
(Start: 26 @38545 has 33 MA's), (33, 38560), (36, 38569), (39, 38593), (43, 38614), (44, 38626), (47, 38638), (48, 38659), (63, 38725), (106, 38818), (130, 38926), (131, 38929), (157, 38968), (169, 39019), (170, 39022), (173, 39109), (176, 39142), (178, 39181),

Gene: MeaningOfLife_52 Start: 38540, Stop: 39427, Start Num: 23
Candidate Starts for MeaningOfLife_52:
(Start: 23 @38540 has 89 MA's), (25, 38558), (44, 38639), (47, 38651), (48, 38672), (63, 38741), (75, 38819), (89, 38888), (106, 38960), (116, 39005), (132, 39083), (157, 39143), (169, 39194), (170, 39197), (173, 39284), (176, 39317),

Gene: Megsy_53 Start: 37875, Stop: 38825, Start Num: 23
Candidate Starts for Megsy_53:
(Start: 23 @37875 has 89 MA's), (36, 37917), (39, 37941), (43, 37962), (44, 37974), (47, 37986), (48, 38007), (63, 38076), (Start: 71 @38133 has 1 MA's), (86, 38214), (106, 38307), (120, 38379), (122, 38385), (139, 38454), (147, 38496), (153, 38526), (160, 38559), (169, 38592), (170, 38595), (173, 38682), (176, 38715),

Gene: Murucutumbu_52 Start: 38586, Stop: 39530, Start Num: 23
Candidate Starts for Murucutumbu_52:

(Start: 23 @38586 has 89 MA's), (36, 38622), (39, 38646), (43, 38667), (47, 38691), (48, 38712), (50, 38718), (63, 38781), (65, 38802), (Start: 71 @38838 has 1 MA's), (106, 39012), (122, 39090), (139, 39159), (142, 39168), (147, 39201), (160, 39264), (170, 39300), (173, 39387), (176, 39420),

Gene: Mynx_52 Start: 37932, Stop: 38876, Start Num: 23
Candidate Starts for Mynx_52:
(Start: 23 @37932 has 89 MA's), (28, 37965), (36, 37974), (39, 37998), (43, 38019), (44, 38031), (47, 38043), (48, 38064), (50, 38070), (63, 38133), (75, 38211), (84, 38262), (89, 38280), (93, 38307), (106, 38358), (122, 38436), (139, 38505), (147, 38547), (160, 38610), (169, 38643), (170, 38646), (173, 38733), (176, 38766),

Gene: Neighly_48 Start: 36145, Stop: 36747, Start Num: 79
Candidate Starts for Neighly_48:
(Start: 79 @36145 has 12 MA's), (82, 36160), (97, 36220), (99, 36223), (114, 36298), (118, 36316), (119, 36322), (134, 36382), (138, 36406), (145, 36442), (152, 36466), (160, 36508), (170, 36544), (173, 36610), (177, 36658),

Gene: Nibb_54 Start: 38079, Stop: 38801, Start Num: 26
Candidate Starts for Nibb_54:
(Start: 26 @38079 has 33 MA's), (31, 38100), (36, 38112), (39, 38136), (47, 38181), (54, 38202), (66, 38223), (90, 38259), (135, 38448), (136, 38460), (138, 38469), (150, 38514), (169, 38559), (173, 38646), (176, 38679), (179, 38733),

Gene: Niklas_54 Start: 38606, Stop: 39313, Start Num: 26
Candidate Starts for Niklas_54:
(Start: 26 @38606 has 33 MA's), (33, 38621), (36, 38630), (39, 38654), (43, 38675), (44, 38687), (47, 38699), (48, 38720), (63, 38786), (106, 38879), (130, 38987), (131, 38990), (157, 39029), (169, 39080), (170, 39083), (173, 39170), (176, 39203), (178, 39242),

Gene: November_52 Start: 38446, Stop: 39297, Start Num: 26
Candidate Starts for November_52:
(16, 38335), (Start: 26 @38446 has 33 MA's), (33, 38461), (39, 38494), (43, 38515), (53, 38563), (88, 38635), (98, 38671), (106, 38716), (142, 38866), (156, 38944), (159, 38956), (165, 39007), (169, 39058), (170, 39061), (173, 39145), (176, 39178), (179, 39232),

Gene: Omnicron_49 Start: 35732, Stop: 36313, Start Num: 80
Candidate Starts for Omnicron_49:
(40, 35576), (41, 35582), (42, 35585), (Start: 80 @35732 has 1 MA's), (97, 35810), (99, 35813), (114, 35885), (118, 35903), (122, 35927), (125, 35936), (126, 35939), (129, 35957), (139, 35990), (152, 36032), (170, 36110), (173, 36176),

Gene: Padfoot_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Padfoot_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Padpat_53 Start: 37607, Stop: 38551, Start Num: 23
Candidate Starts for Padpat_53:
(Start: 23 @37607 has 89 MA's), (28, 37640), (36, 37649), (39, 37673), (43, 37694), (44, 37706), (47, 37718), (48, 37739), (50, 37745), (63, 37808), (75, 37886), (84, 37937), (89, 37955), (93, 37982), (106, 38033), (122, 38111), (139, 38180), (147, 38222), (160, 38285), (169, 38318), (170, 38321), (173, 38408),

Gene: Peanam_54 Start: 38564, Stop: 39271, Start Num: 26
Candidate Starts for Peanam_54:
(Start: 26 @38564 has 33 MA's), (33, 38579), (36, 38588), (39, 38612), (43, 38633), (44, 38645), (47, 38657), (48, 38678), (63, 38744), (106, 38837), (130, 38945), (131, 38948), (157, 38987), (169, 39038), (170, 39041), (173, 39128), (176, 39161), (178, 39200),

Gene: Peel_51 Start: 37733, Stop: 38674, Start Num: 23
Candidate Starts for Peel_51:
(Start: 23 @37733 has 89 MA's), (36, 37772), (39, 37796), (43, 37817), (44, 37829), (47, 37841), (48, 37862), (63, 37931), (75, 38009), (84, 38060), (89, 38078), (93, 38105), (106, 38156), (122, 38234), (139, 38303), (147, 38345), (160, 38408), (169, 38441), (170, 38444), (173, 38531),

Gene: PhelpsODU_54 Start: 37429, Stop: 38442, Start Num: 26
Candidate Starts for PhelpsODU_54:
(Start: 26 @37429 has 33 MA's), (36, 37459), (39, 37483), (43, 37504), (44, 37516), (47, 37528), (49, 37543), (52, 37549), (75, 37621), (95, 37723), (106, 37774), (121, 37849), (124, 37855), (127, 37873), (134, 37897), (137, 37915), (139, 37924), (145, 37957), (151, 38005), (152, 38032), (169, 38188), (170, 38191), (173, 38275), (176, 38308), (179, 38362),

Gene: Phrank_55 Start: 37386, Stop: 38312, Start Num: 26
Candidate Starts for Phrank_55:
(13, 37263), (16, 37281), (Start: 26 @37386 has 33 MA's), (36, 37419), (39, 37443), (43, 37464), (44, 37476), (47, 37488), (52, 37509), (75, 37566), (78, 37572), (86, 37620), (95, 37662), (121, 37788), (124, 37794), (134, 37836), (137, 37854), (139, 37863), (145, 37896), (151, 37944), (152, 37974), (169, 38040), (170, 38043), (173, 38127), (176, 38160), (179, 38214),

Gene: Piatt_51 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for Piatt_51:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: Pisa1_51 Start: 38887, Stop: 39528, Start Num: 23
Candidate Starts for Pisa1_51:
(Start: 23 @38887 has 89 MA's), (27, 38917), (36, 38929), (39, 38953), (44, 38986), (47, 38998), (48, 39019), (63, 39088), (89, 39148), (90, 39151), (95, 39178), (117, 39202), (169, 39295), (170, 39298), (173, 39385), (176, 39418), (178, 39457),

Gene: Pisa4_45 Start: 34256, Stop: 34897, Start Num: 23
Candidate Starts for Pisa4_45:
(Start: 23 @34256 has 89 MA's), (27, 34286), (36, 34298), (39, 34322), (44, 34355), (47, 34367), (48, 34388), (63, 34457), (89, 34517), (90, 34520), (95, 34547), (117, 34571), (169, 34664), (170, 34667), (173, 34754), (176, 34787), (178, 34826),

Gene: Pokerus_50 Start: 37654, Stop: 38604, Start Num: 23
Candidate Starts for Pokerus_50:
(Start: 23 @37654 has 89 MA's), (36, 37696), (39, 37720), (43, 37741), (44, 37753), (47, 37765), (48, 37786), (63, 37855), (Start: 71 @37912 has 1 MA's), (76, 37936), (86, 37993), (106, 38086), (108, 38098), (122, 38164), (139, 38233), (147, 38275), (160, 38338), (169, 38371), (170, 38374), (173, 38461),

Gene: Prithvi_52 Start: 37816, Stop: 38760, Start Num: 23

Candidate Starts for Prithvi_52:
(Start: 23 @37816 has 89 MA's), (36, 37858), (39, 37882), (43, 37903), (44, 37915), (47, 37927), (48, 37948), (58, 37990), (63, 38017), (75, 38095), (81, 38113), (84, 38146), (89, 38164), (93, 38191), (106, 38242), (120, 38314), (122, 38320), (139, 38389), (147, 38431), (160, 38494), (169, 38527), (170, 38530), (173, 38617), (176, 38650),

Gene: Psycho_46 Start: 36276, Stop: 36878, Start Num: 79
Candidate Starts for Psycho_46:
(Start: 79 @36276 has 12 MA's), (82, 36291), (97, 36351), (99, 36354), (114, 36429), (118, 36447), (119, 36453), (134, 36513), (138, 36537), (145, 36573), (152, 36597), (160, 36639), (170, 36675), (173, 36741), (174, 36753), (177, 36789),

Gene: QuincyRose_50 Start: 38046, Stop: 38933, Start Num: 23
Candidate Starts for QuincyRose_50:
(Start: 23 @38046 has 89 MA's), (25, 38064), (36, 38088), (39, 38112), (44, 38145), (47, 38157), (48, 38178), (63, 38247), (75, 38325), (84, 38376), (89, 38394), (106, 38466), (116, 38511), (132, 38589), (157, 38649), (160, 38667), (169, 38700), (170, 38703), (173, 38790), (176, 38823),

Gene: Ramen_52 Start: 37618, Stop: 38559, Start Num: 23
Candidate Starts for Ramen_52:
(Start: 23 @37618 has 89 MA's), (36, 37657), (39, 37681), (43, 37702), (44, 37714), (47, 37726), (48, 37747), (63, 37816), (75, 37894), (84, 37945), (89, 37963), (93, 37990), (106, 38041), (122, 38119), (139, 38188), (147, 38230), (160, 38293), (169, 38326), (170, 38329), (173, 38416),

Gene: Rando14_48 Start: 35246, Stop: 35872, Start Num: 62
Candidate Starts for Rando14_48:
(41, 35150), (51, 35207), (Start: 62 @35246 has 1 MA's), (Start: 80 @35297 has 1 MA's), (97, 35375), (99, 35378), (114, 35450), (118, 35468), (122, 35492), (126, 35504), (129, 35522), (139, 35555), (152, 35597), (170, 35669), (173, 35735),

Gene: Rapunzel97_52 Start: 37614, Stop: 38555, Start Num: 23
Candidate Starts for Rapunzel97_52:
(Start: 23 @37614 has 89 MA's), (36, 37653), (39, 37677), (43, 37698), (44, 37710), (47, 37722), (48, 37743), (63, 37812), (75, 37890), (84, 37941), (89, 37959), (93, 37986), (106, 38037), (122, 38115), (139, 38184), (147, 38226), (160, 38289), (169, 38322), (170, 38325), (173, 38412), (176, 38445),

Gene: Richo_54 Start: 38545, Stop: 39252, Start Num: 26
Candidate Starts for Richo_54:
(Start: 26 @38545 has 33 MA's), (33, 38560), (36, 38569), (39, 38593), (43, 38614), (44, 38626), (47, 38638), (48, 38659), (63, 38725), (106, 38818), (130, 38926), (131, 38929), (157, 38968), (169, 39019), (170, 39022), (173, 39109), (176, 39142), (178, 39181),

Gene: Rosmarinus_51 Start: 37719, Stop: 38660, Start Num: 23
Candidate Starts for Rosmarinus_51:
(Start: 23 @37719 has 89 MA's), (36, 37758), (39, 37782), (43, 37803), (44, 37815), (47, 37827), (48, 37848), (63, 37917), (75, 37995), (84, 38046), (89, 38064), (93, 38091), (106, 38142), (122, 38220), (139, 38289), (147, 38331), (160, 38394), (169, 38427), (170, 38430), (173, 38517),

Gene: SamuelLPlaqson_52 Start: 38502, Stop: 39452, Start Num: 23
Candidate Starts for SamuelLPlaqson_52:
(Start: 23 @38502 has 89 MA's), (36, 38544), (39, 38568), (43, 38589), (44, 38601), (47, 38613), (48, 38634), (63, 38703), (Start: 71 @38760 has 1 MA's), (76, 38784), (86, 38841), (106, 38934), (139, 39081), (142, 39090), (160, 39186), (169, 39219), (170, 39222), (173, 39309), (176, 39342),

Gene: Shaobing_54 Start: 38582, Stop: 39289, Start Num: 26
Candidate Starts for Shaobing_54:
(Start: 26 @38582 has 33 MA's), (33, 38597), (36, 38606), (39, 38630), (43, 38651), (44, 38663), (47, 38675), (48, 38696), (63, 38762), (106, 38855), (130, 38963), (131, 38966), (157, 39005), (169, 39056), (170, 39059), (173, 39146), (176, 39179), (178, 39218),

Gene: ShiaSurprise_52 Start: 37928, Stop: 38869, Start Num: 23
Candidate Starts for ShiaSurprise_52:
(Start: 23 @37928 has 89 MA's), (36, 37967), (39, 37991), (43, 38012), (44, 38024), (47, 38036), (48, 38057), (63, 38126), (75, 38204), (84, 38255), (89, 38273), (93, 38300), (106, 38351), (122, 38429), (139, 38498), (147, 38540), (160, 38603), (169, 38636), (170, 38639), (173, 38726),

Gene: SirPhilip_54 Start: 38933, Stop: 39697, Start Num: 26
Candidate Starts for SirPhilip_54:
(Start: 26 @38933 has 33 MA's), (36, 38963), (43, 39008), (47, 39032), (52, 39053), (110, 39245), (118, 39278), (121, 39299), (124, 39305), (144, 39392), (173, 39530), (176, 39563),

Gene: Slimphazie_51 Start: 37614, Stop: 38555, Start Num: 23
Candidate Starts for Slimphazie_51:
(Start: 23 @37614 has 89 MA's), (36, 37653), (39, 37677), (43, 37698), (44, 37710), (47, 37722), (48, 37743), (63, 37812), (75, 37890), (84, 37941), (89, 37959), (93, 37986), (106, 38037), (122, 38115), (139, 38184), (147, 38226), (160, 38289), (169, 38322), (170, 38325), (173, 38412), (176, 38445),

Gene: Spock_51 Start: 37732, Stop: 38673, Start Num: 23
Candidate Starts for Spock_51:
(Start: 23 @37732 has 89 MA's), (36, 37771), (39, 37795), (43, 37816), (44, 37828), (47, 37840), (48, 37861), (63, 37930), (75, 38008), (84, 38059), (89, 38077), (93, 38104), (106, 38155), (122, 38233), (139, 38302), (147, 38344), (160, 38407), (169, 38440), (170, 38443), (173, 38530),

Gene: Stinson_52 Start: 38106, Stop: 39053, Start Num: 23
Candidate Starts for Stinson_52:
(Start: 23 @38106 has 89 MA's), (36, 38142), (39, 38166), (43, 38187), (47, 38211), (48, 38232), (50, 38238), (63, 38301), (65, 38322), (69, 38331), (70, 38355), (Start: 71 @38358 has 1 MA's), (76, 38382), (86, 38439), (106, 38532), (122, 38610), (139, 38682), (142, 38691), (160, 38787), (169, 38820), (170, 38823), (173, 38910), (176, 38943),

Gene: Sulley_51 Start: 37858, Stop: 38718, Start Num: 23
Candidate Starts for Sulley_51:
(Start: 23 @37858 has 89 MA's), (25, 37876), (36, 37900), (39, 37924), (44, 37957), (47, 37969), (48, 37990), (63, 38059), (86, 38107), (106, 38200), (122, 38278), (139, 38347), (147, 38389), (160, 38452), (169, 38485), (170, 38488), (173, 38575),

Gene: Sunflower1121_58 Start: 38639, Stop: 39289, Start Num: 26
Candidate Starts for Sunflower1121_58:
(12, 38513), (13, 38522), (Start: 26 @38639 has 33 MA's), (30, 38651), (36, 38666), (39, 38690), (43, 38711), (102, 38816), (103, 38822), (111, 38843), (112, 38846), (128, 38870), (156, 38939), (161, 38969), (169, 39035), (170, 39038), (173, 39122), (176, 39155), (179, 39209),

Gene: Syra333_57 Start: 38303, Stop: 39322, Start Num: 26
Candidate Starts for Syra333_57:
(13, 38186), (Start: 26 @38303 has 33 MA's), (30, 38315), (36, 38330), (39, 38354), (43, 38375), (56, 38441), (60, 38462), (61, 38465), (67, 38489), (86, 38585), (106, 38678), (127, 38774), (141, 38828),

(148, 38870), (156, 38954), (161, 38984), (169, 39050), (170, 39053), (173, 39137), (176, 39170), (179, 39224),

Gene: Tachez_51 Start: 37576, Stop: 38517, Start Num: 23
Candidate Starts for Tachez_51:
(Start: 23 @37576 has 89 MA's), (36, 37615), (39, 37639), (43, 37660), (44, 37672), (47, 37684), (48, 37705), (63, 37774), (75, 37852), (84, 37903), (89, 37921), (93, 37948), (106, 37999), (122, 38077), (139, 38146), (147, 38188), (160, 38251), (169, 38284), (170, 38287), (173, 38374),

Gene: TaiwanKao_53 Start: 37872, Stop: 38816, Start Num: 23
Candidate Starts for TaiwanKao_53:
(Start: 23 @37872 has 89 MA's), (36, 37914), (39, 37938), (43, 37959), (44, 37971), (47, 37983), (48, 38004), (63, 38073), (75, 38151), (84, 38202), (89, 38220), (92, 38235), (93, 38247), (106, 38298), (120, 38370), (122, 38376), (139, 38445), (147, 38487), (153, 38517), (169, 38583), (170, 38586), (173, 38673), (176, 38706),

Gene: Tierra_55 Start: 38197, Stop: 39123, Start Num: 26
Candidate Starts for Tierra_55:
(16, 38092), (Start: 26 @38197 has 33 MA's), (36, 38230), (39, 38254), (43, 38275), (44, 38287), (47, 38299), (52, 38320), (75, 38377), (78, 38383), (86, 38431), (95, 38473), (121, 38599), (124, 38605), (134, 38647), (137, 38665), (139, 38674), (145, 38707), (151, 38755), (152, 38785), (169, 38851), (170, 38854), (173, 38938), (176, 38971), (179, 39025),

Gene: Tigress9_57 Start: 38393, Stop: 39313, Start Num: 26
Candidate Starts for Tigress9_57:
(Start: 26 @38393 has 33 MA's), (30, 38405), (36, 38420), (39, 38444), (43, 38465), (67, 38531), (86, 38576), (106, 38669), (123, 38747), (127, 38765), (141, 38819), (148, 38861), (156, 38945), (161, 38975), (169, 39041), (170, 39044), (173, 39128), (176, 39161), (179, 39215),

Gene: TingHuaYa_52 Start: 36657, Stop: 37601, Start Num: 23
Candidate Starts for TingHuaYa_52:
(Start: 23 @36657 has 89 MA's), (36, 36693), (39, 36717), (43, 36738), (44, 36750), (46, 36759), (47, 36762), (48, 36783), (63, 36852), (Start: 71 @36909 has 1 MA's), (76, 36933), (86, 36990), (106, 37083), (120, 37155), (122, 37161), (139, 37230), (147, 37272), (169, 37368), (170, 37371), (172, 37446), (173, 37458), (176, 37491), (178, 37530),

Gene: TiniBug_52 Start: 38498, Stop: 39448, Start Num: 23
Candidate Starts for TiniBug_52:
(Start: 23 @38498 has 89 MA's), (36, 38540), (39, 38564), (43, 38585), (44, 38597), (47, 38609), (48, 38630), (63, 38699), (Start: 71 @38756 has 1 MA's), (76, 38780), (86, 38837), (106, 38930), (139, 39077), (142, 39086), (160, 39182), (169, 39215), (170, 39218), (173, 39305), (176, 39338),

Gene: Tiri_52 Start: 37906, Stop: 38847, Start Num: 23
Candidate Starts for Tiri_52:
(Start: 23 @37906 has 89 MA's), (36, 37945), (39, 37969), (43, 37990), (44, 38002), (47, 38014), (48, 38035), (63, 38104), (75, 38182), (84, 38233), (89, 38251), (93, 38278), (106, 38329), (122, 38407), (139, 38476), (147, 38518), (160, 38581), (169, 38614), (170, 38617), (173, 38704), (176, 38737),

Gene: Topper_51 Start: 37731, Stop: 38672, Start Num: 23
Candidate Starts for Topper_51:
(Start: 23 @37731 has 89 MA's), (36, 37770), (39, 37794), (43, 37815), (44, 37827), (47, 37839), (48, 37860), (63, 37929), (75, 38007), (84, 38058), (89, 38076), (93, 38103), (106, 38154), (122, 38232), (139, 38301), (147, 38343), (160, 38406), (169, 38439), (170, 38442), (173, 38529),

Gene: TreyKay_52 Start: 37816, Stop: 38760, Start Num: 23
Candidate Starts for TreyKay_52:
(Start: 23 @37816 has 89 MA's), (36, 37858), (39, 37882), (43, 37903), (44, 37915), (47, 37927), (48, 37948), (58, 37990), (63, 38017), (75, 38095), (81, 38113), (84, 38146), (89, 38164), (93, 38191), (106, 38242), (120, 38314), (122, 38320), (139, 38389), (147, 38431), (160, 38494), (169, 38527), (170, 38530), (173, 38617), (176, 38650),

Gene: TruffulaTree_51 Start: 37610, Stop: 38551, Start Num: 23
Candidate Starts for TruffulaTree_51:
(Start: 23 @37610 has 89 MA's), (36, 37649), (39, 37673), (43, 37694), (44, 37706), (47, 37718), (48, 37739), (63, 37808), (75, 37886), (84, 37937), (89, 37955), (93, 37982), (106, 38033), (122, 38111), (139, 38180), (147, 38222), (160, 38285), (169, 38318), (170, 38321), (173, 38408), (176, 38441),

Gene: Twitch_51 Start: 37733, Stop: 38674, Start Num: 23
Candidate Starts for Twitch_51:
(Start: 23 @37733 has 89 MA's), (36, 37772), (39, 37796), (43, 37817), (44, 37829), (47, 37841), (48, 37862), (63, 37931), (75, 38009), (84, 38060), (89, 38078), (93, 38105), (106, 38156), (122, 38234), (139, 38303), (147, 38345), (160, 38408), (169, 38441), (170, 38444), (173, 38531),

Gene: Unicorn_54 Start: 37429, Stop: 38442, Start Num: 26
Candidate Starts for Unicorn_54:
(Start: 26 @37429 has 33 MA's), (36, 37459), (39, 37483), (43, 37504), (44, 37516), (47, 37528), (49, 37543), (52, 37549), (75, 37621), (95, 37723), (106, 37774), (121, 37849), (124, 37855), (127, 37873), (134, 37897), (137, 37915), (139, 37924), (145, 37957), (151, 38005), (152, 38032), (169, 38188), (170, 38191), (173, 38275), (176, 38308), (179, 38362),

Gene: Urkel_52 Start: 38502, Stop: 39452, Start Num: 23
Candidate Starts for Urkel_52:
(Start: 23 @38502 has 89 MA's), (36, 38544), (39, 38568), (43, 38589), (44, 38601), (47, 38613), (48, 38634), (63, 38703), (Start: 71 @38760 has 1 MA's), (76, 38784), (86, 38841), (106, 38934), (139, 39081), (142, 39090), (160, 39186), (169, 39219), (170, 39222), (173, 39309), (176, 39342),

Gene: Validus_56 Start: 38620, Stop: 39468, Start Num: 26
Candidate Starts for Validus_56:
(10, 38473), (11, 38482), (14, 38500), (20, 38545), (Start: 26 @38620 has 33 MA's), (33, 38635), (36, 38644), (39, 38668), (43, 38689), (47, 38713), (48, 38734), (63, 38800), (72, 38869), (75, 38881), (84, 38932), (89, 38950), (93, 38977), (106, 39028), (120, 39100), (130, 39136), (131, 39139), (169, 39232), (170, 39235), (173, 39322), (176, 39355), (178, 39394),

Gene: Veliki_52 Start: 37650, Stop: 38537, Start Num: 23
Candidate Starts for Veliki_52:
(Start: 23 @37650 has 89 MA's), (25, 37668), (39, 37716), (44, 37749), (47, 37761), (48, 37782), (63, 37851), (75, 37929), (84, 37980), (89, 37998), (106, 38070), (116, 38115), (132, 38193), (157, 38253), (160, 38271), (169, 38304), (170, 38307), (173, 38394), (176, 38427),

Gene: ViviJ_47 Start: 36184, Stop: 36789, Start Num: 79
Candidate Starts for ViviJ_47:
(Start: 79 @36184 has 12 MA's), (82, 36199), (97, 36259), (99, 36262), (107, 36304), (114, 36337), (118, 36355), (119, 36361), (138, 36445), (145, 36481), (152, 36505), (158, 36532), (170, 36583), (173, 36649), (180, 36760),

Gene: Ximenita_58 Start: 38492, Stop: 39322, Start Num: 26

Candidate Starts for Ximenita_58:
(12, 38366), (13, 38375), (Start: 26 @38492 has 33 MA's), (30, 38504), (43, 38564), (47, 38588), (49, 38603), (52, 38609), (86, 38654), (106, 38747), (123, 38825), (127, 38843), (141, 38897), (148, 38939), (154, 38975), (162, 39011), (166, 39032), (169, 39065), (170, 39068), (173, 39152), (176, 39185),

Gene: YoureAdopted_50 Start: 37815, Stop: 38675, Start Num: 23
Candidate Starts for YoureAdopted_50:
(Start: 23 @37815 has 89 MA's), (25, 37833), (36, 37857), (39, 37881), (44, 37914), (47, 37926), (48, 37947), (63, 38016), (86, 38064), (106, 38157), (122, 38235), (139, 38304), (147, 38346), (160, 38409), (169, 38442), (170, 38445), (173, 38532), (176, 38565), (178, 38604),

Gene: Yuna_58 Start: 39426, Stop: 40163, Start Num: 26
Candidate Starts for Yuna_58:
(Start: 26 @39426 has 33 MA's), (31, 39444), (37, 39465), (39, 39480), (44, 39513), (47, 39525), (54, 39546), (66, 39567), (75, 39579), (90, 39603), (106, 39672), (108, 39684), (135, 39789), (138, 39810), (155, 39879), (168, 39891), (173, 39993), (176, 40026),

Gene: Yunkel11_54 Start: 37403, Stop: 38347, Start Num: 23
Candidate Starts for Yunkel11_54:
(Start: 23 @37403 has 89 MA's), (36, 37442), (39, 37466), (43, 37487), (44, 37499), (47, 37511), (48, 37532), (58, 37574), (63, 37601), (84, 37733), (89, 37751), (106, 37829), (122, 37907), (139, 37976), (147, 38018), (169, 38114), (170, 38117), (173, 38204),

Gene: Zabiza_46 Start: 33921, Stop: 34862, Start Num: 23
Candidate Starts for Zabiza_46:
(Start: 23 @33921 has 89 MA's), (36, 33960), (39, 33984), (43, 34005), (44, 34017), (47, 34029), (48, 34050), (63, 34119), (75, 34197), (84, 34248), (89, 34266), (93, 34293), (106, 34344), (122, 34422), (139, 34491), (147, 34533), (160, 34596), (169, 34629), (170, 34632), (173, 34719),

Gene: Zavala_53 Start: 37892, Stop: 38836, Start Num: 23
Candidate Starts for Zavala_53:
(Start: 23 @37892 has 89 MA's), (28, 37925), (36, 37934), (39, 37958), (43, 37979), (44, 37991), (47, 38003), (48, 38024), (50, 38030), (63, 38093), (75, 38171), (84, 38222), (89, 38240), (93, 38267), (106, 38318), (122, 38396), (139, 38465), (147, 38507), (160, 38570), (169, 38603), (170, 38606), (173, 38693), (176, 38726),