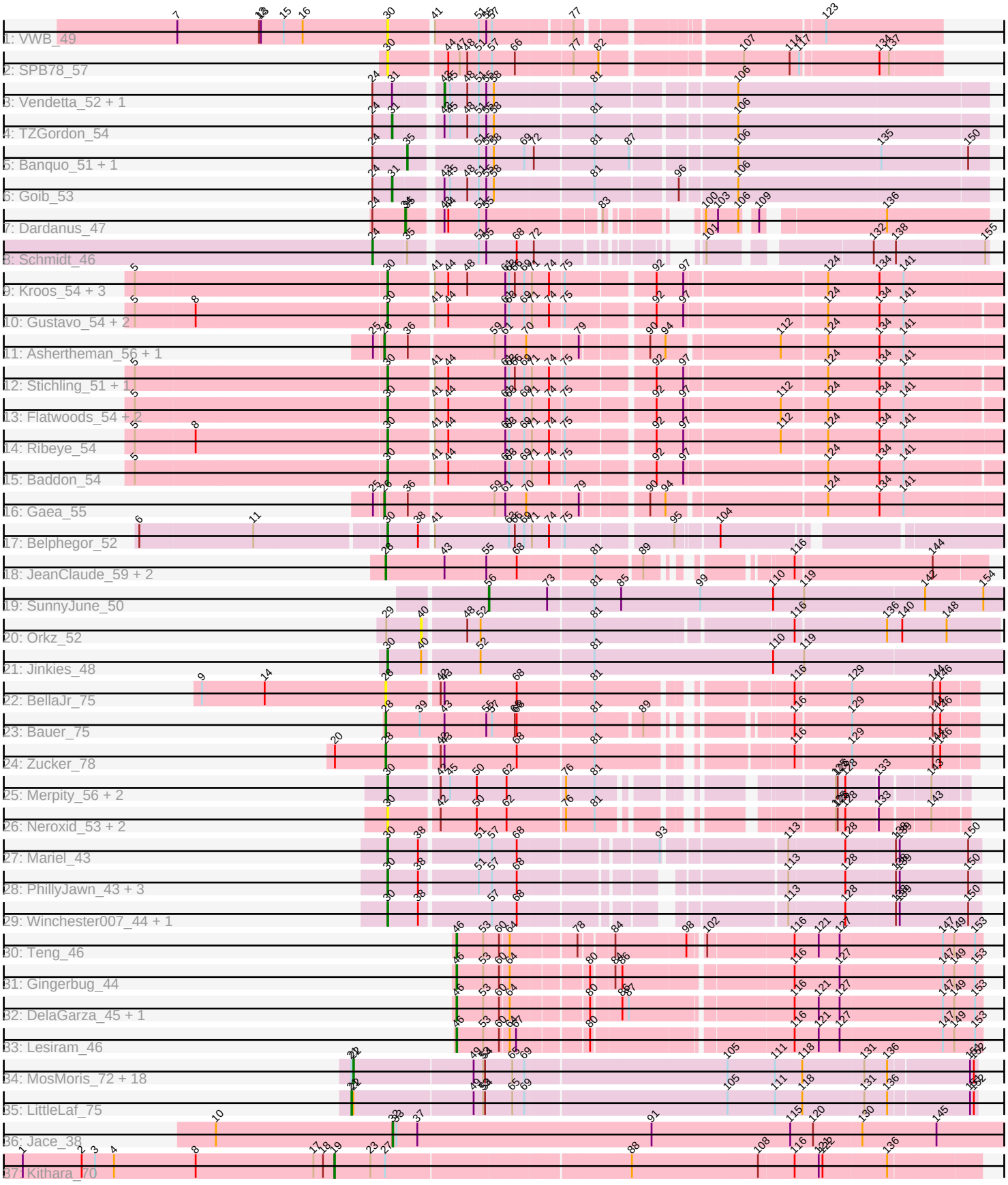
Pham 347542


1: VWB_49
2: SPB78_57
3: Vendetta_52 + 1
4: TZGordon_54
5: Banquo_51 + 1
6: Goib_53
7: Dardanus_47
8: Schmidt_46
9: Kroos_54 + 3
10: Gustavo_54 + 2
11: Ashertheman_56 + 1
12: Stichling_51 + 1
13: Flatwoods_54 + 2
14: Ribeye_54
15: Baddon_54
16: Gaea_55
17: Belphegor_52
18: JeanClaude_59 + 2
19: SunnyJune_50
20: Orkz_52
21: Jinkies_48
22: BellaJr_75
23: Bauer_75
24: Zucker_78
25: Merpity_56 + 2
26: Neroxid_53 + 2
27: Mariel_43
28: PhillyJawn_43 + 3
29: Winchester007_44 + 1
30: Teng_46
31: Gingerbug_44
32: DelaGarza_45 + 1
33: Lesiram_46
34: MosMoris_72 + 18
35: LittleLaf_75
36: Jace_38
37: Kithara_70

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 347542 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 347542 has 77 members, 11 are drafts.

Phages represented in each track:
- Track 1 : VWB_49
- Track 2 : SPB78_57
- Track 3 : Vendetta_52, Splinter_52
- Track 4 : TZGordon_54
- Track 5 : Banquo_51, TinaLin_51
- Track 6 : Goib_53
- Track 7 : Dardanus_47
- Track 8 : Schmidt_46
- Track 9 : Kroos_54, YorkOnyx_55, SchottB_52, Kwobi_56
- Track 10 : Gustavo_54, Saronaya_54, Tangerine_53
- Track 11 : Ashertheman_56, Bibwit_55
- Track 12 : Stichling_51, JKSyngboy_52
- Track 13 : Flatwoods_54, Bizzy_54, Derg_49
- Track 14 : Ribeye_54
- Track 15 : Baddon_54
- Track 16 : Gaea_55
- Track 17 : Belphegor_52
- Track 18 : JeanClaude_59, BrayBeast_60, Shoya_60
- Track 19 : SunnyJune_50
- Track 20 : Orkz_52
- Track 21 : Jinkies_48
- Track 22 : BellaJr_75
- Track 23 : Bauer_75
- Track 24 : Zucker_78
- Track 25 : Merpity_56, MrSmee_55, Skitty_49
- Track 26 : Neroxid_53, Skyerus_48, Raya_53
- Track 27 : Mariel_43
- Track 28 : PhillyJawn_43, Appa_42, Guzman_42, Dropshot_42
- Track 29 : Winchester007_44, Pickles13_41
- Track 30 : Teng_46
- Track 31 : Gingerbug_44
- Track 32 : DelaGarza_45, Sweetums_47
- Track 33 : Lesiram_46

• Track 34 : MosMoris_72, Raela_76, FeliMaine_77, Caprice_74, Tesla_72, Beelzebub_79, RedRaider77_75, Poise_76, Clarkson_76, JoieB_76, Corazon_72, Marvin_71, Gattaca_73, Lilbit_73, GoongGoong_75, Pringar_73, Huphlepuff_77, VasuNzinga_74, Blackbeetle_76
• Track 35 : LittleLaf_75
• Track 36 : Jace_38
• Track 37 : Kithara_70

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

The start number called the most often in the published annotations is 30, it was called in 23 of the 66 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Appa_42, Baddon_54, Belphegor_52, Bizzy_54, Derg_49, Dropshot_42, Flatwoods_54, Gustavo_54, Guzman_42, JKSyngboy_52, Jinkies_48, Kroos_54, Kwobi_56, Mariel_43, Merpity_56, MrSmee_55, Neroxid_53, PhillyJawn_43, Pickles13_41, Raya_53, Ribeye_54, SPB78_57, Saronaya_54, SchottB_52, Skitty_49, Skyerus_48, Stichling_51, Tangerine_53, VWB_49, Winchester007_44, YorkOnyx_55,

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

Genes that do not have the "Most Annotated" start:
• Ashertheman_56, Banquo_51, Bauer_75, Beelzebub_79, BellaJr_75, Bibwit_55, Blackbeetle_76, BrayBeast_60, Caprice_74, Clarkson_76, Corazon_72, Dardanus_47, DelaGarza_45, FeliMaine_77, Gaea_55, Gattaca_73, Gingerbug_44, Goib_53, GoongGoong_75, Huphlepuff_77, Jace_38, JeanClaude_59, JoieB_76, Kithara_70, Lesiram_46, Lilbit_73, LittleLaf_75, Marvin_71, MosMoris_72, Orkz_52, Poise_76, Pringar_73, Raela_76, RedRaider77_75, Schmidt_46, Shoya_60, Splinter_52, SunnyJune_50, Sweetums_47, TZGordon_54, Teng_46, Tesla_72, TinaLin_51, VasuNzinga_74, Vendetta_52, Zucker_78,

Summary by start number:

Start 19:
• Found in 1 of 77 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kithara_70 (singleton),

Start 21:
• Found in 20 of 77 (26.0%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 5.0% of time when present
• Phage (with cluster) where this start called: LittleLaf_75 (S),

Start 22:
• Found in 20 of 77 (26.0%) of genes in pham

• Manual Annotations of this start: 19 of 66
• Called 95.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_79 (S), Blackbeetle_76 (S), Caprice_74 (S), Clarkson_76 (S), Corazon_72 (S), FeliMaine_77 (S), Gattaca_73 (S), GoongGoong_75 (S), Huphlepuff_77 (S), JoieB_76 (S), Lilbit_73 (S), Marvin_71 (S), MosMoris_72 (S), Poise_76 (S), Pringar_73 (S), Raela_76 (S), RedRaider77_75 (S), Tesla_72 (S), VasuNzinga_74 (S),

Start 24:
• Found in 8 of 77 (10.4%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 12.5% of time when present
• Phage (with cluster) where this start called: Schmidt_46 (CU4),

Start 26:
• Found in 3 of 77 (3.9%) of genes in pham
• Manual Annotations of this start: 3 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ashertheman_56 (DE1), Bibwit_55 (DE1), Gaea_55 (DE1),

Start 28:
• Found in 6 of 77 (7.8%) of genes in pham
• Manual Annotations of this start: 4 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bauer_75 (FN), BellaJr_75 (FN), BrayBeast_60 (FB), JeanClaude_59 (FB), Shoya_60 (FB), Zucker_78 (FN),

Start 30:
• Found in 31 of 77 (40.3%) of genes in pham
• Manual Annotations of this start: 23 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Appa_42 (GA), Baddon_54 (DE1), Belphegor_52 (DE2), Bizzy_54 (DE1), Derg_49 (DE1), Dropshot_42 (GA), Flatwoods_54 (DE1), Gustavo_54 (DE1), Guzman_42 (GA), JKSyngboy_52 (DE1), Jinkies_48 (FL), Kroos_54 (DE1), Kwobi_56 (DE1), Mariel_43 (GA), Merpity_56 (FQ1), MrSmee_55 (FQ1), Neroxid_53 (FQ2), PhillyJawn_43 (GA), Pickles13_41 (GA), Raya_53 (FQ2), Ribeye_54 (DE1), SPB78_57 (BA), Saronaya_54 (DE1), SchottB_52 (DE1), Skitty_49 (FQ1), Skyerus_48 (FQ2), Stichling_51 (DE1), Tangerine_53 (DE1), VWB_49 (BA), Winchester007_44 (GA), YorkOnyx_55 (DE1),

Start 31:
• Found in 4 of 77 (5.2%) of genes in pham
• Manual Annotations of this start: 2 of 66
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Goib_53 (CU1), TZGordon_54 (CU1),

Start 32:
• Found in 1 of 77 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jace_38 (singleton),

Start 34:
• Found in 1 of 77 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dardanus_47 (CU3),

Start 35:
• Found in 4 of 77 (5.2%) of genes in pham
• Manual Annotations of this start: 2 of 66
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Banquo_51 (CU1), TinaLin_51 (CU1),

Start 40:
• Found in 2 of 77 (2.6%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Orkz_52 (FL),

Start 43:
• Found in 11 of 77 (14.3%) of genes in pham
• Manual Annotations of this start: 2 of 66
• Called 18.2% of time when present
• Phage (with cluster) where this start called: Splinter_52 (CU1), Vendetta_52 (CU1),

Start 46:
• Found in 5 of 77 (6.5%) of genes in pham
• Manual Annotations of this start: 5 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DelaGarza_45 (GF), Gingerbug_44 (GF), Lesiram_46 (GF), Sweetums_47 (GF), Teng_46 (GF),

Start 56:
• Found in 1 of 77 (1.3%) of genes in pham
• Manual Annotations of this start: 1 of 66
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SunnyJune_50 (FL),

Summary by clusters:

There are 15 clusters represented in this pham: singleton, CU4, CU3, BA, CU1, DE1, DE2, FB, GF, S, GA, FQ2, FQ1, FL, FN,

Info for manual annotations of cluster CU1:
•Start number 31 was manually annotated 2 times for cluster CU1.
•Start number 35 was manually annotated 2 times for cluster CU1.
•Start number 43 was manually annotated 2 times for cluster CU1.

Info for manual annotations of cluster CU3:
•Start number 34 was manually annotated 1 time for cluster CU3.

Info for manual annotations of cluster CU4:
•Start number 24 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DE1:
•Start number 26 was manually annotated 3 times for cluster DE1.
•Start number 30 was manually annotated 13 times for cluster DE1.

Info for manual annotations of cluster DE2:
•Start number 30 was manually annotated 1 time for cluster DE2.

Info for manual annotations of cluster FB:
•Start number 28 was manually annotated 2 times for cluster FB.

Info for manual annotations of cluster FL:
•Start number 30 was manually annotated 1 time for cluster FL.
•Start number 56 was manually annotated 1 time for cluster FL.

Info for manual annotations of cluster FN:
•Start number 28 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FQ1:
•Start number 30 was manually annotated 2 times for cluster FQ1.

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

Info for manual annotations of cluster GF:
•Start number 46 was manually annotated 5 times for cluster GF.

Info for manual annotations of cluster S:
•Start number 21 was manually annotated 1 time for cluster S.
•Start number 22 was manually annotated 19 times for cluster S.

Gene Information:

Gene: Appa_42 Start: 26023, Stop: 26835, Start Num: 30
Candidate Starts for Appa_42:
(Start: 30 @26023 has 23 MA's), (38, 26068), (51, 26149), (57, 26170), (68, 26206), (113, 26548), (128, 26632), (138, 26704), (139, 26710), (150, 26815),

Gene: Ashertheman_56 Start: 44845, Stop: 45732, Start Num: 26
Candidate Starts for Ashertheman_56:
(25, 44833), (Start: 26 @44845 has 3 MA's), (36, 44881), (59, 45001), (61, 45016), (70, 45046), (79, 45118), (90, 45205), (94, 45229), (112, 45391), (124, 45460), (134, 45541), (141, 45577),

Gene: Baddon_54 Start: 45452, Stop: 46342, Start Num: 30
Candidate Starts for Baddon_54:
(5, 45062), (Start: 30 @45452 has 23 MA's), (41, 45512), (44, 45533), (61, 45617), (63, 45623), (69, 45647), (71, 45656), (74, 45683), (75, 45704), (92, 45827), (97, 45866), (124, 46076), (134, 46157), (141, 46193),

Gene: Banquo_51 Start: 32896, Stop: 33726, Start Num: 35

Candidate Starts for Banquo_51:
(Start: 24 @32848 has 1 MA's), (Start: 35 @32896 has 2 MA's), (51, 32986), (55, 32998), (58, 33010), (69, 33055), (72, 33067), (81, 33157), (87, 33208), (106, 33349), (135, 33565), (150, 33694),

Gene: Bauer_75 Start: 42042, Stop: 42833, Start Num: 28
Candidate Starts for Bauer_75:
(Start: 28 @42042 has 4 MA's), (39, 42090), (Start: 43 @42129 has 2 MA's), (55, 42192), (57, 42201), (66, 42234), (68, 42237), (81, 42351), (89, 42414), (116, 42564), (129, 42645), (144, 42765), (146, 42777),

Gene: Beelzebub_79 Start: 42080, Stop: 43006, Start Num: 22
Candidate Starts for Beelzebub_79:
(Start: 21 @42077 has 1 MA's), (Start: 22 @42080 has 19 MA's), (49, 42260), (53, 42275), (54, 42278), (65, 42320), (69, 42338), (105, 42635), (111, 42710), (118, 42752), (131, 42845), (136, 42881), (151, 42995), (152, 43001),

Gene: BellaJr_75 Start: 44689, Stop: 45504, Start Num: 28
Candidate Starts for BellaJr_75:
(9, 44401), (14, 44500), (Start: 28 @44689 has 4 MA's), (42, 44758), (Start: 43 @44764 has 2 MA's), (68, 44872), (81, 44989), (116, 45235), (129, 45316), (144, 45436), (146, 45448),

Gene: Belphegor_52 Start: 45051, Stop: 45884, Start Num: 30
Candidate Starts for Belphegor_52:
(6, 44676), (11, 44853), (Start: 30 @45051 has 23 MA's), (38, 45096), (41, 45111), (63, 45222), (66, 45231), (69, 45246), (71, 45255), (74, 45282), (75, 45303), (95, 45450), (104, 45507),

Gene: Bibwit_55 Start: 44359, Stop: 45243, Start Num: 26
Candidate Starts for Bibwit_55:
(25, 44347), (Start: 26 @44359 has 3 MA's), (36, 44395), (59, 44515), (61, 44530), (70, 44560), (79, 44632), (90, 44719), (94, 44743), (112, 44905), (124, 44974), (134, 45055), (141, 45091),

Gene: Bizzy_54 Start: 44167, Stop: 45060, Start Num: 30
Candidate Starts for Bizzy_54:
(5, 43777), (Start: 30 @44167 has 23 MA's), (41, 44227), (44, 44248), (61, 44332), (63, 44338), (69, 44362), (71, 44371), (74, 44398), (75, 44419), (92, 44542), (97, 44581), (112, 44722), (124, 44791), (134, 44872), (141, 44908),

Gene: Blackbeetle_76 Start: 41429, Stop: 42367, Start Num: 22
Candidate Starts for Blackbeetle_76:
(Start: 21 @41426 has 1 MA's), (Start: 22 @41429 has 19 MA's), (49, 41609), (53, 41624), (54, 41627), (65, 41669), (69, 41687), (105, 41996), (111, 42071), (118, 42113), (131, 42206), (136, 42242), (151, 42356), (152, 42362),

Gene: BrayBeast_60 Start: 34355, Stop: 35161, Start Num: 28
Candidate Starts for BrayBeast_60:
(Start: 28 @34355 has 4 MA's), (Start: 43 @34442 has 2 MA's), (55, 34505), (68, 34550), (81, 34664), (89, 34727), (116, 34877), (144, 35078),

Gene: Caprice_74 Start: 41379, Stop: 42305, Start Num: 22
Candidate Starts for Caprice_74:
(Start: 21 @41376 has 1 MA's), (Start: 22 @41379 has 19 MA's), (49, 41559), (53, 41574), (54, 41577), (65, 41619), (69, 41637), (105, 41934), (111, 42009), (118, 42051), (131, 42144), (136, 42180), (151, 42294), (152, 42300),

Gene: Clarkson_76 Start: 41760, Stop: 42686, Start Num: 22
Candidate Starts for Clarkson_76:
(Start: 21 @41757 has 1 MA's), (Start: 22 @41760 has 19 MA's), (49, 41940), (53, 41955), (54, 41958), (65, 42000), (69, 42018), (105, 42315), (111, 42390), (118, 42432), (131, 42525), (136, 42561), (151, 42675), (152, 42681),

Gene: Corazon_72 Start: 41954, Stop: 42880, Start Num: 22
Candidate Starts for Corazon_72:
(Start: 21 @41951 has 1 MA's), (Start: 22 @41954 has 19 MA's), (49, 42134), (53, 42149), (54, 42152), (65, 42194), (69, 42212), (105, 42509), (111, 42584), (118, 42626), (131, 42719), (136, 42755), (151, 42869), (152, 42875),

Gene: Dardanus_47 Start: 31666, Stop: 32385, Start Num: 34
Candidate Starts for Dardanus_47:
(Start: 24 @31621 has 1 MA's), (Start: 34 @31666 has 1 MA's), (Start: 35 @31669 has 2 MA's), (Start: 43 @31708 has 2 MA's), (44, 31714), (51, 31759), (55, 31771), (83, 31930), (100, 32008), (103, 32026), (106, 32053), (109, 32065), (136, 32230),

Gene: DelaGarza_45 Start: 27611, Stop: 26874, Start Num: 46
Candidate Starts for DelaGarza_45:
(Start: 46 @27611 has 5 MA's), (53, 27569), (60, 27551), (64, 27539), (80, 27434), (86, 27395), (87, 27386), (116, 27158), (121, 27125), (127, 27092), (147, 26936), (149, 26918), (153, 26885),

Gene: Derg_49 Start: 43759, Stop: 44652, Start Num: 30
Candidate Starts for Derg_49:
(5, 43369), (Start: 30 @43759 has 23 MA's), (41, 43819), (44, 43840), (61, 43924), (63, 43930), (69, 43954), (71, 43963), (74, 43990), (75, 44011), (92, 44134), (97, 44173), (112, 44314), (124, 44383), (134, 44464), (141, 44500),

Gene: Dropshot_42 Start: 25858, Stop: 26670, Start Num: 30
Candidate Starts for Dropshot_42:
(Start: 30 @25858 has 23 MA's), (38, 25903), (51, 25984), (57, 26005), (68, 26041), (113, 26383), (128, 26467), (138, 26539), (139, 26545), (150, 26650),

Gene: FeliMaine_77 Start: 42002, Stop: 42928, Start Num: 22
Candidate Starts for FeliMaine_77:
(Start: 21 @41999 has 1 MA's), (Start: 22 @42002 has 19 MA's), (49, 42182), (53, 42197), (54, 42200), (65, 42242), (69, 42260), (105, 42557), (111, 42632), (118, 42674), (131, 42767), (136, 42803), (151, 42917), (152, 42923),

Gene: Flatwoods_54 Start: 44108, Stop: 44998, Start Num: 30
Candidate Starts for Flatwoods_54:
(5, 43718), (Start: 30 @44108 has 23 MA's), (41, 44168), (44, 44189), (61, 44273), (63, 44279), (69, 44303), (71, 44312), (74, 44339), (75, 44360), (92, 44483), (97, 44522), (112, 44663), (124, 44732), (134, 44813), (141, 44849),

Gene: Gaea_55 Start: 44145, Stop: 45029, Start Num: 26
Candidate Starts for Gaea_55:
(25, 44133), (Start: 26 @44145 has 3 MA's), (36, 44181), (59, 44301), (61, 44316), (70, 44346), (79, 44418), (90, 44505), (94, 44529), (124, 44760), (134, 44841), (141, 44877),

Gene: Gattaca_73 Start: 41533, Stop: 42465, Start Num: 22

Candidate Starts for Gattaca_73:
(Start: 21 @41530 has 1 MA's), (Start: 22 @41533 has 19 MA's), (49, 41713), (53, 41728), (54, 41731), (65, 41773), (69, 41791), (105, 42094), (111, 42169), (118, 42211), (131, 42304), (136, 42340), (151, 42454), (152, 42460),

Gene: Gingerbug_44 Start: 28129, Stop: 27392, Start Num: 46
Candidate Starts for Gingerbug_44:
(Start: 46 @28129 has 5 MA's), (53, 28087), (60, 28069), (64, 28057), (80, 27952), (84, 27922), (86, 27913), (116, 27676), (127, 27610), (147, 27454), (149, 27436), (153, 27403),

Gene: Goib_53 Start: 33944, Stop: 34795, Start Num: 31
Candidate Starts for Goib_53:
(Start: 24 @33917 has 1 MA's), (Start: 31 @33944 has 2 MA's), (Start: 43 @34004 has 2 MA's), (45, 34013), (48, 34040), (51, 34055), (55, 34067), (58, 34079), (81, 34226), (96, 34340), (106, 34418),

Gene: GoongGoong_75 Start: 41332, Stop: 42270, Start Num: 22
Candidate Starts for GoongGoong_75:
(Start: 21 @41329 has 1 MA's), (Start: 22 @41332 has 19 MA's), (49, 41512), (53, 41527), (54, 41530), (65, 41572), (69, 41590), (105, 41899), (111, 41974), (118, 42016), (131, 42109), (136, 42145), (151, 42259), (152, 42265),

Gene: Gustavo_54 Start: 44390, Stop: 45280, Start Num: 30
Candidate Starts for Gustavo_54:
(5, 44000), (8, 44093), (Start: 30 @44390 has 23 MA's), (41, 44450), (44, 44471), (61, 44555), (63, 44561), (69, 44585), (71, 44594), (74, 44621), (75, 44642), (92, 44765), (97, 44804), (124, 45014), (134, 45095), (141, 45131),

Gene: Guzman_42 Start: 26122, Stop: 26934, Start Num: 30
Candidate Starts for Guzman_42:
(Start: 30 @26122 has 23 MA's), (38, 26167), (51, 26248), (57, 26269), (68, 26305), (113, 26647), (128, 26731), (138, 26803), (139, 26809), (150, 26914),

Gene: Huphlepuff_77 Start: 41565, Stop: 42491, Start Num: 22
Candidate Starts for Huphlepuff_77:
(Start: 21 @41562 has 1 MA's), (Start: 22 @41565 has 19 MA's), (49, 41745), (53, 41760), (54, 41763), (65, 41805), (69, 41823), (105, 42120), (111, 42195), (118, 42237), (131, 42330), (136, 42366), (151, 42480), (152, 42486),

Gene: JKSyngboy_52 Start: 44983, Stop: 45873, Start Num: 30
Candidate Starts for JKSyngboy_52:
(5, 44593), (Start: 30 @44983 has 23 MA's), (41, 45043), (44, 45064), (61, 45148), (63, 45154), (66, 45163), (69, 45178), (71, 45187), (74, 45214), (75, 45235), (92, 45358), (97, 45397), (124, 45607), (134, 45688), (141, 45724),

Gene: Jace_38 Start: 28473, Stop: 29453, Start Num: 32
Candidate Starts for Jace_38:
(10, 28194), (Start: 32 @28473 has 1 MA's), (33, 28479), (37, 28512), (91, 28881), (115, 29100), (120, 29136), (130, 29211), (145, 29328),

Gene: JeanClaude_59 Start: 32720, Stop: 33526, Start Num: 28
Candidate Starts for JeanClaude_59:
(Start: 28 @32720 has 4 MA's), (Start: 43 @32807 has 2 MA's), (55, 32870), (68, 32915), (81, 33029), (89, 33092), (116, 33242), (144, 33443),

Gene: Jinkies_48 Start: 35024, Stop: 35947, Start Num: 30
Candidate Starts for Jinkies_48:
(Start: 30 @35024 has 23 MA's), (40, 35072), (52, 35156), (81, 35324), (110, 35594), (119, 35642),

Gene: JoieB_76 Start: 42016, Stop: 42954, Start Num: 22
Candidate Starts for JoieB_76:
(Start: 21 @42013 has 1 MA's), (Start: 22 @42016 has 19 MA's), (49, 42196), (53, 42211), (54, 42214), (65, 42256), (69, 42274), (105, 42583), (111, 42658), (118, 42700), (131, 42793), (136, 42829), (151, 42943), (152, 42949),

Gene: Kithara_70 Start: 51463, Stop: 50498, Start Num: 19
Candidate Starts for Kithara_70:
(1, 51955), (2, 51862), (3, 51841), (4, 51811), (8, 51682), (17, 51496), (18, 51481), (Start: 19 @51463 has 1 MA's), (23, 51406), (27, 51385), (88, 51022), (108, 50827), (116, 50773), (121, 50740), (122, 50734), (136, 50638),

Gene: Kroos_54 Start: 44667, Stop: 45560, Start Num: 30
Candidate Starts for Kroos_54:
(5, 44277), (Start: 30 @44667 has 23 MA's), (41, 44727), (44, 44748), (48, 44778), (61, 44832), (63, 44838), (66, 44847), (69, 44862), (71, 44871), (74, 44898), (75, 44919), (92, 45042), (97, 45081), (124, 45291), (134, 45372), (141, 45408),

Gene: Kwobi_56 Start: 45093, Stop: 45986, Start Num: 30
Candidate Starts for Kwobi_56:
(5, 44703), (Start: 30 @45093 has 23 MA's), (41, 45153), (44, 45174), (48, 45204), (61, 45258), (63, 45264), (66, 45273), (69, 45288), (71, 45297), (74, 45324), (75, 45345), (92, 45468), (97, 45507), (124, 45717), (134, 45798), (141, 45834),

Gene: Lesiram_46 Start: 27579, Stop: 26845, Start Num: 46
Candidate Starts for Lesiram_46:
(Start: 46 @27579 has 5 MA's), (53, 27537), (60, 27519), (64, 27507), (67, 27498), (80, 27402), (116, 27129), (121, 27096), (127, 27063), (147, 26907), (149, 26889), (153, 26856),

Gene: Lilbit_73 Start: 42113, Stop: 43051, Start Num: 22
Candidate Starts for Lilbit_73:
(Start: 21 @42110 has 1 MA's), (Start: 22 @42113 has 19 MA's), (49, 42293), (53, 42308), (54, 42311), (65, 42353), (69, 42371), (105, 42680), (111, 42755), (118, 42797), (131, 42890), (136, 42926), (151, 43040), (152, 43046),

Gene: LittleLaf_75 Start: 41839, Stop: 42780, Start Num: 21
Candidate Starts for LittleLaf_75:
(Start: 21 @41839 has 1 MA's), (Start: 22 @41842 has 19 MA's), (49, 42022), (53, 42037), (54, 42040), (65, 42082), (69, 42100), (105, 42409), (111, 42484), (118, 42526), (131, 42619), (136, 42655), (151, 42769), (152, 42775),

Gene: Mariel_43 Start: 26592, Stop: 27428, Start Num: 30
Candidate Starts for Mariel_43:
(Start: 30 @26592 has 23 MA's), (38, 26637), (51, 26718), (57, 26739), (68, 26775), (93, 26970), (113, 27141), (128, 27225), (138, 27297), (139, 27303), (150, 27408),

Gene: Marvin_71 Start: 41650, Stop: 42576, Start Num: 22
Candidate Starts for Marvin_71:

(Start: 21 @41647 has 1 MA's), (Start: 22 @41650 has 19 MA's), (49, 41830), (53, 41845), (54, 41848), (65, 41890), (69, 41908), (105, 42205), (111, 42280), (118, 42322), (131, 42415), (136, 42451), (151, 42565), (152, 42571),

Gene: Merpity_56 Start: 32461, Stop: 33207, Start Num: 30
Candidate Starts for Merpity_56:
(Start: 30 @32461 has 23 MA's), (42, 32530), (45, 32545), (50, 32587), (62, 32629), (76, 32713), (81, 32758), (125, 33025), (126, 33028), (128, 33040), (133, 33085), (143, 33154),

Gene: MosMoris_72 Start: 41533, Stop: 42471, Start Num: 22
Candidate Starts for MosMoris_72:
(Start: 21 @41530 has 1 MA's), (Start: 22 @41533 has 19 MA's), (49, 41713), (53, 41728), (54, 41731), (65, 41773), (69, 41791), (105, 42100), (111, 42175), (118, 42217), (131, 42310), (136, 42346), (151, 42460), (152, 42466),

Gene: MrSmee_55 Start: 32435, Stop: 33181, Start Num: 30
Candidate Starts for MrSmee_55:
(Start: 30 @32435 has 23 MA's), (42, 32504), (45, 32519), (50, 32561), (62, 32603), (76, 32687), (81, 32732), (125, 32999), (126, 33002), (128, 33014), (133, 33059), (143, 33128),

Gene: Neroxid_53 Start: 31455, Stop: 32201, Start Num: 30
Candidate Starts for Neroxid_53:
(Start: 30 @31455 has 23 MA's), (42, 31524), (50, 31581), (62, 31623), (76, 31707), (81, 31752), (125, 32019), (126, 32022), (128, 32034), (133, 32079), (143, 32148),

Gene: Orkz_52 Start: 33628, Stop: 34467, Start Num: 40
Candidate Starts for Orkz_52:
(29, 33580), (40, 33628), (48, 33691), (52, 33712), (81, 33880), (116, 34162), (136, 34297), (140, 34318), (148, 34384),

Gene: PhillyJawn_43 Start: 26020, Stop: 26832, Start Num: 30
Candidate Starts for PhillyJawn_43:
(Start: 30 @26020 has 23 MA's), (38, 26065), (51, 26146), (57, 26167), (68, 26203), (113, 26545), (128, 26629), (138, 26701), (139, 26707), (150, 26812),

Gene: Pickles13_41 Start: 26333, Stop: 27145, Start Num: 30
Candidate Starts for Pickles13_41:
(Start: 30 @26333 has 23 MA's), (38, 26378), (57, 26480), (68, 26516), (113, 26858), (128, 26942), (138, 27014), (139, 27020), (150, 27125),

Gene: Poise_76 Start: 41429, Stop: 42367, Start Num: 22
Candidate Starts for Poise_76:
(Start: 21 @41426 has 1 MA's), (Start: 22 @41429 has 19 MA's), (49, 41609), (53, 41624), (54, 41627), (65, 41669), (69, 41687), (105, 41996), (111, 42071), (118, 42113), (131, 42206), (136, 42242), (151, 42356), (152, 42362),

Gene: Pringar_73 Start: 41366, Stop: 42292, Start Num: 22
Candidate Starts for Pringar_73:
(Start: 21 @41363 has 1 MA's), (Start: 22 @41366 has 19 MA's), (49, 41546), (53, 41561), (54, 41564), (65, 41606), (69, 41624), (105, 41921), (111, 41996), (118, 42038), (131, 42131), (136, 42167), (151, 42281), (152, 42287),

Gene: Raela_76 Start: 41986, Stop: 42918, Start Num: 22

Candidate Starts for Raela_76:
(Start: 21 @41983 has 1 MA's), (Start: 22 @41986 has 19 MA's), (49, 42166), (53, 42181), (54, 42184), (65, 42226), (69, 42244), (105, 42547), (111, 42622), (118, 42664), (131, 42757), (136, 42793), (151, 42907), (152, 42913),

Gene: Raya_53 Start: 31455, Stop: 32201, Start Num: 30
Candidate Starts for Raya_53:
(Start: 30 @31455 has 23 MA's), (42, 31524), (50, 31581), (62, 31623), (76, 31707), (81, 31752), (125, 32019), (126, 32022), (128, 32034), (133, 32079), (143, 32148),

Gene: RedRaider77_75 Start: 41374, Stop: 42312, Start Num: 22
Candidate Starts for RedRaider77_75:
(Start: 21 @41371 has 1 MA's), (Start: 22 @41374 has 19 MA's), (49, 41554), (53, 41569), (54, 41572), (65, 41614), (69, 41632), (105, 41941), (111, 42016), (118, 42058), (131, 42151), (136, 42187), (151, 42301), (152, 42307),

Gene: Ribeye_54 Start: 45091, Stop: 45984, Start Num: 30
Candidate Starts for Ribeye_54:
(5, 44701), (8, 44794), (Start: 30 @45091 has 23 MA's), (41, 45151), (44, 45172), (61, 45256), (63, 45262), (69, 45286), (71, 45295), (74, 45322), (75, 45343), (92, 45466), (97, 45505), (112, 45646), (124, 45715), (134, 45796), (141, 45832),

Gene: SPB78_57 Start: 38788, Stop: 39564, Start Num: 30
Candidate Starts for SPB78_57:
(Start: 30 @38788 has 23 MA's), (44, 38869), (47, 38887), (48, 38899), (51, 38914), (57, 38935), (66, 38965), (77, 39049), (82, 39088), (107, 39280), (114, 39349), (117, 39364), (134, 39475), (137, 39490),

Gene: Saronaya_54 Start: 44390, Stop: 45280, Start Num: 30
Candidate Starts for Saronaya_54:
(5, 44000), (8, 44093), (Start: 30 @44390 has 23 MA's), (41, 44450), (44, 44471), (61, 44555), (63, 44561), (69, 44585), (71, 44594), (74, 44621), (75, 44642), (92, 44765), (97, 44804), (124, 45014), (134, 45095), (141, 45131),

Gene: Schmidt_46 Start: 30686, Stop: 31453, Start Num: 24
Candidate Starts for Schmidt_46:
(Start: 24 @30686 has 1 MA's), (Start: 35 @30734 has 2 MA's), (51, 30824), (55, 30836), (68, 30881), (72, 30905), (101, 31073), (132, 31283), (138, 31313), (155, 31448),

Gene: SchottB_52 Start: 44927, Stop: 45820, Start Num: 30
Candidate Starts for SchottB_52:
(5, 44537), (Start: 30 @44927 has 23 MA's), (41, 44987), (44, 45008), (48, 45038), (61, 45092), (63, 45098), (66, 45107), (69, 45122), (71, 45131), (74, 45158), (75, 45179), (92, 45302), (97, 45341), (124, 45551), (134, 45632), (141, 45668),

Gene: Shoya_60 Start: 34184, Stop: 34990, Start Num: 28
Candidate Starts for Shoya_60:
(Start: 28 @34184 has 4 MA's), (Start: 43 @34271 has 2 MA's), (55, 34334), (68, 34379), (81, 34493), (89, 34556), (116, 34706), (144, 34907),

Gene: Skitty_49 Start: 30277, Stop: 31023, Start Num: 30
Candidate Starts for Skitty_49:

(Start: 30 @30277 has 23 MA's), (42, 30346), (45, 30361), (50, 30403), (62, 30445), (76, 30529), (81, 30574), (125, 30841), (126, 30844), (128, 30856), (133, 30901), (143, 30970),

Gene: Skyerus_48 Start: 29573, Stop: 30319, Start Num: 30
Candidate Starts for Skyerus_48:
(Start: 30 @29573 has 23 MA's), (42, 29642), (50, 29699), (62, 29741), (76, 29825), (81, 29870), (125, 30137), (126, 30140), (128, 30152), (133, 30197), (143, 30266),

Gene: Splinter_52 Start: 34027, Stop: 34818, Start Num: 43
Candidate Starts for Splinter_52:
(Start: 24 @33940 has 1 MA's), (Start: 31 @33967 has 2 MA's), (Start: 43 @34027 has 2 MA's), (45, 34036), (48, 34063), (51, 34078), (55, 34090), (58, 34102), (81, 34249), (106, 34441),

Gene: Stichling_51 Start: 43447, Stop: 44337, Start Num: 30
Candidate Starts for Stichling_51:
(5, 43057), (Start: 30 @43447 has 23 MA's), (41, 43507), (44, 43528), (61, 43612), (63, 43618), (66, 43627), (69, 43642), (71, 43651), (74, 43678), (75, 43699), (92, 43822), (97, 43861), (124, 44071), (134, 44152), (141, 44188),

Gene: SunnyJune_50 Start: 34761, Stop: 35537, Start Num: 56
Candidate Starts for SunnyJune_50:
(Start: 56 @34761 has 1 MA's), (73, 34848), (81, 34911), (85, 34953), (99, 35076), (110, 35187), (119, 35235), (142, 35418), (154, 35508),

Gene: Sweetums_47 Start: 27695, Stop: 26958, Start Num: 46
Candidate Starts for Sweetums_47:
(Start: 46 @27695 has 5 MA's), (53, 27653), (60, 27635), (64, 27623), (80, 27518), (86, 27479), (87, 27470), (116, 27242), (121, 27209), (127, 27176), (147, 27020), (149, 27002), (153, 26969),

Gene: TZGordon_54 Start: 33313, Stop: 34164, Start Num: 31
Candidate Starts for TZGordon_54:
(Start: 24 @33286 has 1 MA's), (Start: 31 @33313 has 2 MA's), (Start: 43 @33373 has 2 MA's), (45, 33382), (48, 33409), (51, 33424), (55, 33436), (58, 33448), (81, 33595), (106, 33787),

Gene: Tangerine_53 Start: 43802, Stop: 44692, Start Num: 30
Candidate Starts for Tangerine_53:
(5, 43412), (8, 43505), (Start: 30 @43802 has 23 MA's), (41, 43862), (44, 43883), (61, 43967), (63, 43973), (69, 43997), (71, 44006), (74, 44033), (75, 44054), (92, 44177), (97, 44216), (124, 44426), (134, 44507), (141, 44543),

Gene: Teng_46 Start: 27599, Stop: 26865, Start Num: 46
Candidate Starts for Teng_46:
(Start: 46 @27599 has 5 MA's), (53, 27557), (60, 27539), (64, 27527), (78, 27437), (84, 27392), (98, 27296), (102, 27278), (116, 27149), (121, 27116), (127, 27083), (147, 26927), (149, 26909), (153, 26876),

Gene: Tesla_72 Start: 41223, Stop: 42161, Start Num: 22
Candidate Starts for Tesla_72:
(Start: 21 @41220 has 1 MA's), (Start: 22 @41223 has 19 MA's), (49, 41403), (53, 41418), (54, 41421), (65, 41463), (69, 41481), (105, 41790), (111, 41865), (118, 41907), (131, 42000), (136, 42036), (151, 42150), (152, 42156),

Gene: TinaLin_51 Start: 32790, Stop: 33620, Start Num: 35

Candidate Starts for TinaLin_51:
(Start: 24 @32742 has 1 MA's), (Start: 35 @32790 has 2 MA's), (51, 32880), (55, 32892), (58, 32904), (69, 32949), (72, 32961), (81, 33051), (87, 33102), (106, 33243), (135, 33459), (150, 33588),

Gene: VWB_49 Start: 36944, Stop: 37702, Start Num: 30
Candidate Starts for VWB_49:
(7, 36617), (12, 36746), (13, 36749), (15, 36785), (16, 36815), (Start: 30 @36944 has 23 MA's), (41, 37004), (51, 37070), (55, 37082), (57, 37091), (77, 37202), (123, 37529),

Gene: VasuNzinga_74 Start: 41324, Stop: 42250, Start Num: 22
Candidate Starts for VasuNzinga_74:
(Start: 21 @41321 has 1 MA's), (Start: 22 @41324 has 19 MA's), (49, 41504), (53, 41519), (54, 41522), (65, 41564), (69, 41582), (105, 41879), (111, 41954), (118, 41996), (131, 42089), (136, 42125), (151, 42239), (152, 42245),

Gene: Vendetta_52 Start: 34027, Stop: 34818, Start Num: 43
Candidate Starts for Vendetta_52:
(Start: 24 @33940 has 1 MA's), (Start: 31 @33967 has 2 MA's), (Start: 43 @34027 has 2 MA's), (45, 34036), (48, 34063), (51, 34078), (55, 34090), (58, 34102), (81, 34249), (106, 34441),

Gene: Winchester007_44 Start: 26158, Stop: 26970, Start Num: 30
Candidate Starts for Winchester007_44:
(Start: 30 @26158 has 23 MA's), (38, 26203), (57, 26305), (68, 26341), (113, 26683), (128, 26767), (138, 26839), (139, 26845), (150, 26950),

Gene: YorkOnyx_55 Start: 44582, Stop: 45475, Start Num: 30
Candidate Starts for YorkOnyx_55:
(5, 44192), (Start: 30 @44582 has 23 MA's), (41, 44642), (44, 44663), (48, 44693), (61, 44747), (63, 44753), (66, 44762), (69, 44777), (71, 44786), (74, 44813), (75, 44834), (92, 44957), (97, 44996), (124, 45206), (134, 45287), (141, 45323),

Gene: Zucker_78 Start: 46620, Stop: 47435, Start Num: 28
Candidate Starts for Zucker_78:
(20, 46542), (Start: 28 @46620 has 4 MA's), (42, 46689), (Start: 43 @46695 has 2 MA's), (68, 46803), (81, 46920), (116, 47166), (129, 47247), (144, 47367), (146, 47379),