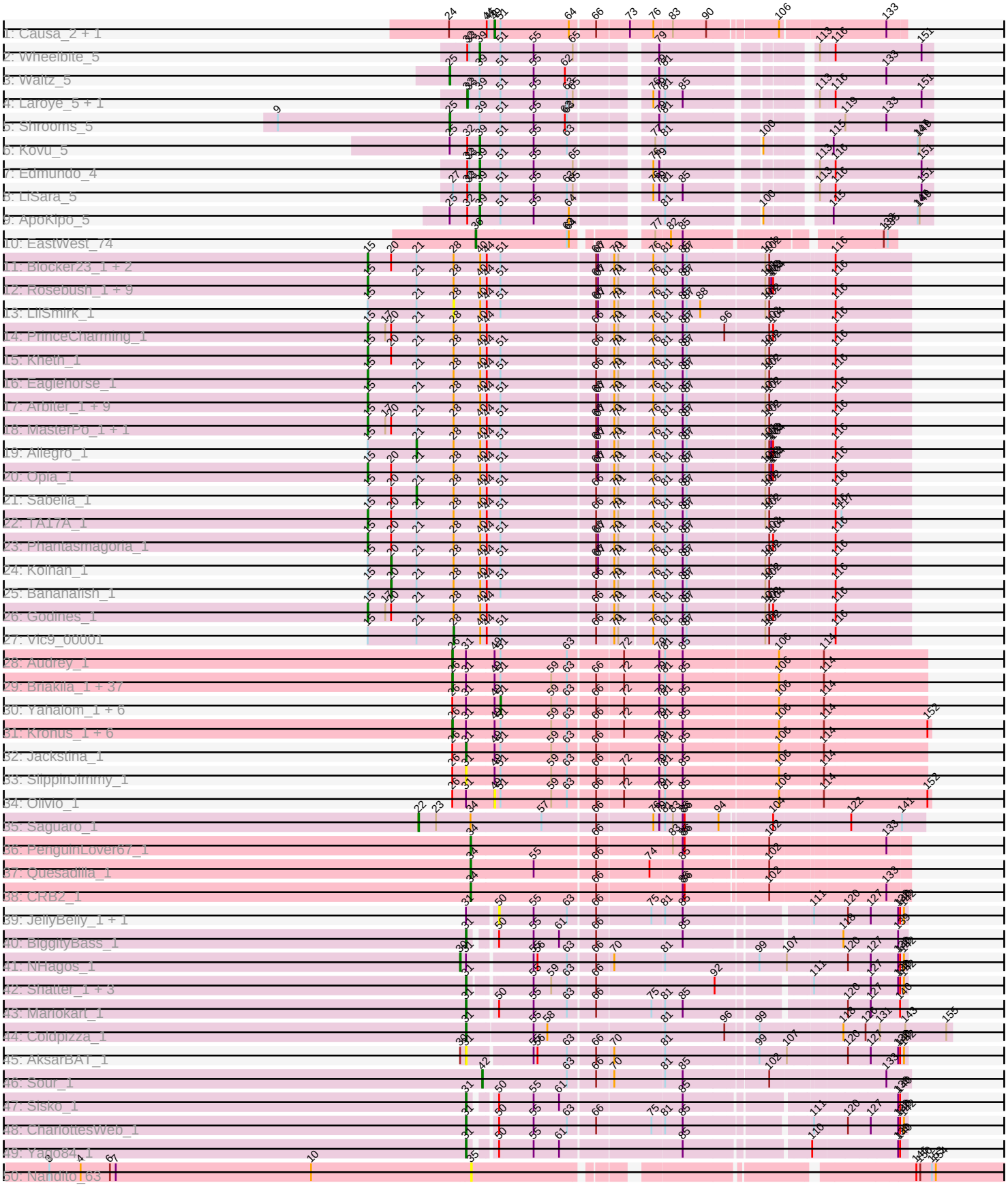
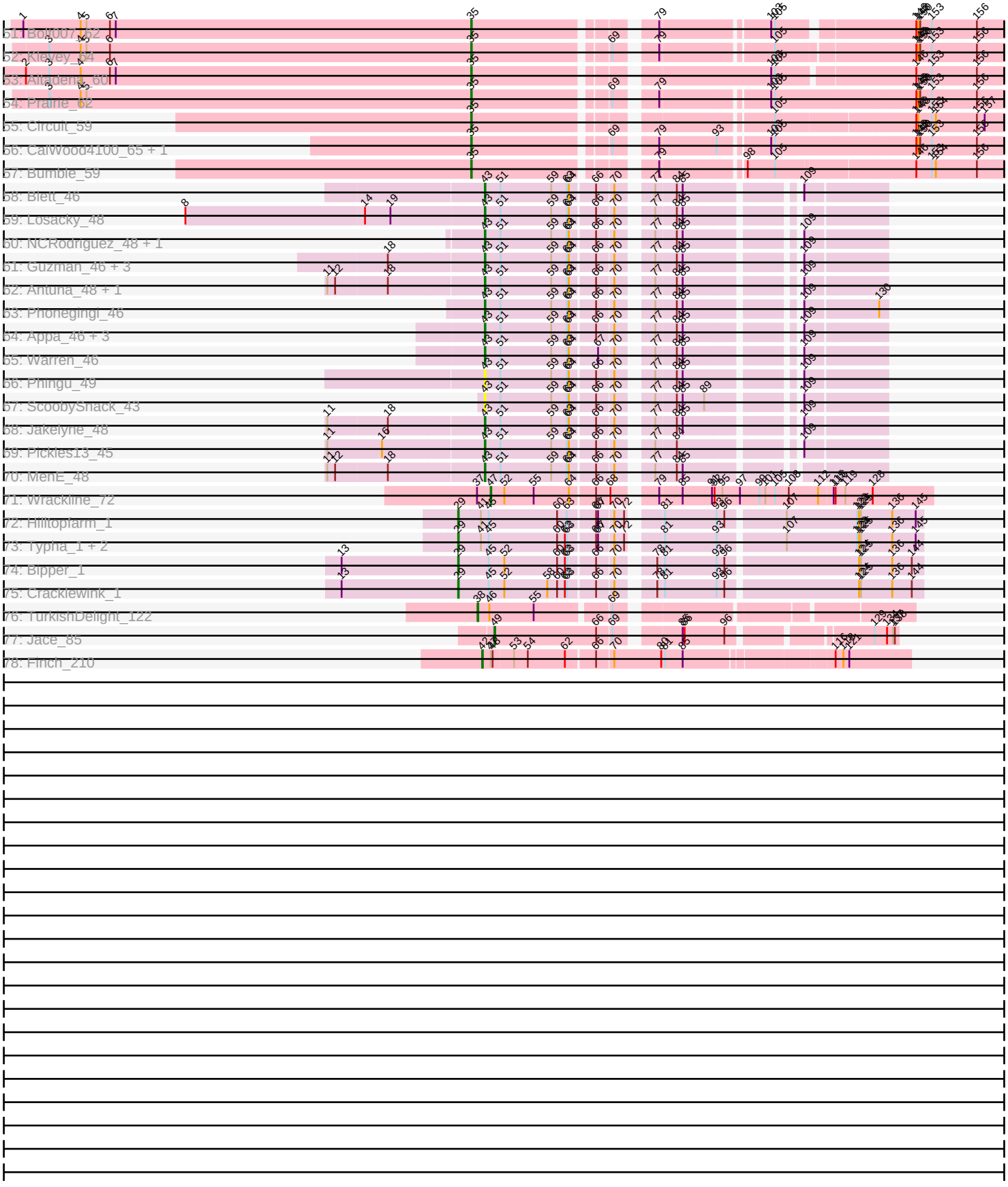
Pham 347323


1: Causa_2 + 1
2: Wheelbite_5
3: Waltz_5
4: Laroye_5 + 1
5: Shrooms_5
6: Kovu_5
7: Edmundo_4
8: LilSara_5
9: ApoKipo_5
10: EastWest_74
11: Blocker23_1 + 2
12: Rosebush_1 + 9
13: LilSmirk_1
14: PrinceCharming_1
15: Kneth_1
16: Eaglehorse_1
17: Arbiter_1 + 9
18: MasterPo_1 + 1
19: Allegro_1
20: Opia_1
21: Sabella_1
22: TA17A_1
23: Phantasmagoria_1
24: Kolhan_1
25: Bananafish_1
26: Godines_1
27: Vic9_00001
28: Audrey_1
29: Briakila_1 + 37
30: Yahalom_1 + 6
31: Kronus_1 + 6
32: Jackstina_1
33: SlippinJimmy_1
34: Olivio_1
35: Saguaro_1
36: PenguinLover67_1
37: Quesadilla_1
38: CRB2_1
39: JellyBelly_1 + 1
40: BiggityBass_1
41: NHagos_1
42: Shatter_1 + 3
43: Mariokart_1
44: Coldpizza_1
45: AksarBAT_1
46: Sour_1
47: Sisko_1
48: CharlottesWeb_1
49: Yago84_1
50: Nanditoi63

Pham 347323


51: Boy007_52
52: Kleyey_64
53: Alfadeni_60
54: Prairie_62
55: Circuit_59
56: CalWood4100_65 + 1
57: Bumble_59
58: Blett_46
59: Losacky_48
60: NCRodriguez_48 + 1
61: Guzman_46 + 3
62: Antuna_48 + 1
63: Phonegingl_46
64: Appa_46 + 3
65: Warren_46
66: Phingu_49
67: ScoobySnack_43
68: Jakelyne_48
69: Pickles13_45
70: MenE_48
71: Wrackline_72
72: Hilltopfarm_1
73: Typha_1 + 2
74: Bipper_1
75: Cracklewink_1
76: TurkishDelight_122
77: Jace_85
78: Finch_210

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 347323 Report

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

Pham number 347323 has 165 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Causa_2, StAugustine_2
• Track 2 : Wheelbite_5
• Track 3 : Waltz_5
• Track 4 : Laroye_5, Salgado_5
• Track 5 : Shrooms_5
• Track 6 : Kovu_5
• Track 7 : Edmundo_4
• Track 8 : LiSara_5
• Track 9 : ApoKipo_5
• Track 10 : EastWest_74
• Track 11 : Blocker23_1, Laurie_1, Tres_1
• Track 12 : Rosebush_1, Hedgerow_1, Boyle_1, Faze9_1, Brownie5_1, Kaleb_1, Coffee_1, FrenchFry_1, Tinciduntsolum_1, West99_1
• Track 13 : LilSmirk_1
• Track 14 : PrinceCharming_1
• Track 15 : Kheth_1
• Track 16 : Eaglehorse_1
• Track 17 : Arbiter_1, Ares_1, Calamitous_1, Lars_1, Qyrzula_1, Glass_1, Rhinoforte_1, LizLemon_1, ItsyBitsy1_1, Holeinone_1
• Track 18 : MasterPo_1, Lephleur_1
• Track 19 : Allegro_1
• Track 20 : Opia_1
• Track 21 : Sabella_1
• Track 22 : TA17A_1
• Track 23 : Phantasmagoria_1
• Track 24 : Kolhan_1
• Track 25 : Bananafish_1
• Track 26 : Godines_1
• Track 27 : Vic9_00001
• Track 28 : Audrey_1
• Track 29 : Briakila_1, Phlyer_1, Philly_1, Chalmers_1, Devonte_1, ChaChing_1, Mulaychimus_1, Obutu_1, Gadjet_1, Akoma_1, Neos5_1, MmasiCarm_1, GlenHope_1, SynergyX_1, Rita1961_1, Pipefish_1, Heathcliff_1, Abinghost_1, Marley1013_1, Baloo_1, RagingRooster_1, RomaT_1, Nozo_1, Compostia_1, Yinz_1, Chandler_1, Athena_1, Gervas_1, HarveySr_1, Glubnar_1, OrangeOswald_1, Deenasa_1, TinyTerror_1, LestyG_1, SwainyDoc_1, Daisy_1, Corofin_1, Shenandoah_1

• Track 30 : Yahalom_1, Marlia_1, Bernardo_1, Morty007_1, Tydolla_1, Phaedrus_1, Kamiyu_1
• Track 31 : Kronus_1, Halfpint_1, Casbah_1, Phayeta_1, Mortcellus_1, Ben11_1, Chentzyk_1
• Track 32 : Jackstina_1
• Track 33 : SlippinJimmy_1
• Track 34 : Olivio_1
• Track 35 : Saguaro_1
• Track 36 : PenguinLover67_1
• Track 37 : Quesadilla_1
• Track 38 : CRB2_1
• Track 39 : JellyBelly_1, Coco2012_1
• Track 40 : BiggityBass_1
• Track 41 : NHagos_1
• Track 42 : Shatter_1, Fresco_1, Axumite_1, Ligma_1
• Track 43 : Mariokart_1
• Track 44 : Coldpizza_1
• Track 45 : AksarBAT_1
• Track 46 : Sour_1
• Track 47 : Sisko_1
• Track 48 : CharlottesWeb_1
• Track 49 : Yago84_1
• Track 50 : Nandito_63
• Track 51 : Bolt007_62
• Track 52 : Klevey_64
• Track 53 : Altadena_60
• Track 54 : Prairie_62
• Track 55 : Circuit_59
• Track 56 : CalWood4100_65, Lilmac1015_65
• Track 57 : Bumble_59
• Track 58 : Blett_46
• Track 59 : Losacky_48
• Track 60 : NCRodriguez_48, Bush_47
• Track 61 : Guzman_46, Violeta_48, CookieDog_46, Carrillo_48
• Track 62 : Antuna_48, Mariel_47
• Track 63 : Phonegingi_46
• Track 64 : Appa_46, Winchester007_48, PhillyJawn_47, Dropshot_46
• Track 65 : Warren_46
• Track 66 : Phingu_49
• Track 67 : ScoobySnack_43
• Track 68 : Jakelyne_48
• Track 69 : Pickles13_45
• Track 70 : MenE_48
• Track 71 : Wrackline_72
• Track 72 : Hilltopfarm_1
• Track 73 : Typha_1, AuntGwenStacy_1, Faiyaz_1
• Track 74 : Bipper_1
• Track 75 : Cracklewink_1
• Track 76 : TurkishDelight_122
• Track 77 : Jace_85
• Track 78 : Finch_210

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

The start number called the most often in the published annotations is 26, it was called in 46 of the 152 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abinghost_1, Akoma_1, Athena_1, Audrey_1, Baloo_1, Ben11_1, Briakila_1, Casbah_1, ChaChing_1, Chalmers_1, Chandler_1, Chentzyk_1, Compostia_1, Corofin_1, Daisy_1, Deenasa_1, Devonte_1, Gadjet_1, Gervas_1, GlenHope_1, Glubnar_1, Halfpint_1, HarveySr_1, Heathcliff_1, Kronus_1, LestyG_1, Marley1013_1, MmasiCarm_1, Mortcellus_1, Mulaychimus_1, Neos5_1, Nozo_1, Obutu_1, OrangeOswald_1, Phayeta_1, Philly_1, Phlyer_1, Pipefish_1, RagingRooster_1, Rita1961_1, RomaT_1, Shenandoah_1, SwainyDoc_1, SynergyX_1, TinyTerror_1, Yinz_1,

Genes that have the "Most Annotated" start but do not call it:
• Bernardo_1, Jackstina_1, Kamiyu_1, Marlia_1, Morty007_1, Olivio_1, Phaedrus_1, SlippinJimmy_1, Tydolla_1, Yahalom_1,

Genes that do not have the "Most Annotated" start:
• AksarBAT_1, Allegro_1, Altadena_60, Antuna_48, ApoKipo_5, Appa_46, Arbiter_1, Ares_1, AuntGwenStacy_1, Axumite_1, Bananafish_1, BiggityBass_1, Bipper_1, Blett_46, Blocker23_1, Bolt007_62, Boyle_1, Brownie5_1, Bumble_59, Bush_47, CRB2_1, CalWood4100_65, Calamitous_1, Carrillo_48, Causa_2, CharlottesWeb_1, Circuit_59, Coco2012_1, Coffee_1, Coldpizza_1, CookieDog_46, Cracklewink_1, Dropshot_46, Eaglehorse_1, EastWest_74, Edmundo_4, Faiyaz_1, Faze9_1, Finch_210, FrenchFry_1, Fresco_1, Glass_1, Godines_1, Guzman_46, Hedgerow_1, Hilltopfarm_1, Holeinone_1, ItsyBitsy1_1, Jace_85, Jakelyne_48, JellyBelly_1, Kaleb_1, Kheth_1, Klevey_64, Kolhan_1, Kovu_5, Laroye_5, Lars_1, Laurie_1, Lephleur_1, LiSara_5, Ligma_1, LilSmirk_1, Lilmac1015_65, LizLemon_1, Losacky_48, Mariel_47, Mariokart_1, MasterPo_1, MenE_48, NCRodriguez_48, NHagos_1, Nandito_63, Opia_1, PenguinLover67_1, Phantasmagoria_1, PhillyJawn_47, Phingu_49, Phonegingi_46, Pickles13_45, Prairie_62, PrinceCharming_1, Quesadilla_1, Qyrzula_1, Rhinoforte_1, Rosebush_1, Sabella_1, Saguaro_1, Salgado_5, ScoobySnack_43, Shatter_1, Shrooms_5, Sisko_1, Sour_1, StAugustine_2, TA17A_1, Tinciduntsolum_1, Tres_1, TurkishDelight_122, Typha_1, Vic9_00001, Violeta_48, Waltz_5, Warren_46, West99_1, Wheelbite_5, Winchester007_48, Wrackline_72, Yago84_1,

Summary by start number:

Start 15:
• Found in 38 of 165 (23.0%) of genes in pham
• Manual Annotations of this start: 32 of 152
• Called 84.2% of time when present
• Phage (with cluster) where this start called: Arbiter_1 (B2), Ares_1 (B2), Blocker23_1 (B2), Boyle_1 (B2), Brownie5_1 (B2), Calamitous_1 (B2), Coffee_1 (B2), Eaglehorse_1 (B2), Faze9_1 (B2), FrenchFry_1 (B2), Glass_1 (B2), Godines_1 (B2), Hedgerow_1 (B2), Holeinone_1 (B2), ItsyBitsy1_1 (B2), Kaleb_1 (B2), Kheth_1 (B2), Lars_1 (B2), Laurie_1 (B2), Lephleur_1 (B2), LizLemon_1 (B2), MasterPo_1 (B2), Opia_1 (B2), Phantasmagoria_1 (B2), PrinceCharming_1 (B2), Qyrzula_1 (B2), Rhinoforte_1 (B2), Rosebush_1 (B2), TA17A_1 (B2), Tinciduntsolum_1 (B2), Tres_1

(B2), West99_1 (B2),

Start 20:
• Found in 14 of 165 (8.5%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Bananafish_1 (B2), Kolhan_1 (B2),

Start 21:
• Found in 38 of 165 (23.0%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Allegro_1 (B2), Sabella_1 (B2),

Start 22:
• Found in 1 of 165 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Saguaro_1 (B7),

Start 25:
• Found in 4 of 165 (2.4%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Shrooms_5 (AL), Waltz_5 (AL),

Start 26:
• Found in 56 of 165 (33.9%) of genes in pham
• Manual Annotations of this start: 46 of 152
• Called 82.1% of time when present
• Phage (with cluster) where this start called: Abinghost_1 (B3), Akoma_1 (B3), Athena_1 (B3), Audrey_1 (B3), Baloo_1 (B3), Ben11_1 (B3), Briakila_1 (B3), Casbah_1 (B3), ChaChing_1 (B3), Chalmers_1 (B3), Chandler_1 (B3), Chentzyk_1 (B3), Compostia_1 (B3), Corofin_1 (B3), Daisy_1 (B3), Deenasa_1 (B3), Devonte_1 (B3), Gadjet_1 (B3), Gervas_1 (B3), GlenHope_1 (B3), Glubnar_1 (B3), Halfpint_1 (B3), HarveySr_1 (B3), Heathcliff_1 (B3), Kronus_1 (B3), LestyG_1 (B3), Marley1013_1 (B3), MmasiCarm_1 (B3), Mortcellus_1 (B3), Mulaychimus_1 (B3), Neos5_1 (B3), Nozo_1 (B3), Obutu_1 (B3), OrangeOswald_1 (B3), Phayeta_1 (B3), Philly_1 (B3), Phlyer_1 (B3), Pipefish_1 (B3), RagingRooster_1 (B3), Rita1961_1 (B3), RomaT_1 (B3), Shenandoah_1 (B3), SwainyDoc_1 (B3), SynergyX_1 (B3), TinyTerror_1 (B3), Yinz_1 (B3),

Start 28:
• Found in 38 of 165 (23.0%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 5.3% of time when present
• Phage (with cluster) where this start called: LilSmirk_1 (B2), Vic9_00001 (B2),

Start 29:
• Found in 6 of 165 (3.6%) of genes in pham
• Manual Annotations of this start: 6 of 152
• Called 100.0% of time when present

• Phage (with cluster) where this start called: AuntGwenStacy_1 (Y), Bipper_1 (Y), Cracklewink_1 (Y), Faiyaz_1 (Y), Hilltopfarm_1 (Y), Typha_1 (Y),

Start 30:
• Found in 2 of 165 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 50.0% of time when present
• Phage (with cluster) where this start called: NHagos_1 (DR),

Start 31:
• Found in 70 of 165 (42.4%) of genes in pham
• Manual Annotations of this start: 11 of 152
• Called 18.6% of time when present
• Phage (with cluster) where this start called: AksarBAT_1 (DR), Axumite_1 (DR), BiggityBass_1 (DR), CharlottesWeb_1 (DR), Coldpizza_1 (DR), Fresco_1 (DR), Jackstina_1 (B3), Ligma_1 (DR), Mariokart_1 (DR), Shatter_1 (DR), Sisko_1 (DR), SlippinJimmy_1 (B3), Yago84_1 (DR),

Start 32:
• Found in 7 of 165 (4.2%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Laroye_5 (AL), Salgado_5 (AL),

Start 34:
• Found in 4 of 165 (2.4%) of genes in pham
• Manual Annotations of this start: 3 of 152
• Called 75.0% of time when present
• Phage (with cluster) where this start called: CRB2_1 (B9), PenguinLover67_1 (B9), Quesadilla_1 (B9),

Start 35:
• Found in 9 of 165 (5.5%) of genes in pham
• Manual Annotations of this start: 7 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altadena_60 (FH), Bolt007_62 (FH), Bumble_59 (FH), CalWood4100_65 (FH), Circuit_59 (FH), Klevey_64 (FH), Lilmac1015_65 (FH), Nandito_63 (FH), Prairie_62 (FH),

Start 36:
• Found in 1 of 165 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: EastWest_74 (AO),

Start 38:
• Found in 1 of 165 (0.6%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TurkishDelight_122 (singleton),

Start 39:
• Found in 9 of 165 (5.5%) of genes in pham

• Manual Annotations of this start: 5 of 152
• Called 55.6% of time when present
• Phage (with cluster) where this start called: ApoKipo_5 (AL), Edmundo_4 (AL), Kovu_5 (AL), LiSara_5 (AL), Wheelbite_5 (AL),

Start 42:
• Found in 2 of 165 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finch_210 (singleton), Sour_1 (DR),

Start 43:
• Found in 21 of 165 (12.7%) of genes in pham
• Manual Annotations of this start: 17 of 152
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antuna_48 (GA), Appa_46 (GA), Blett_46 (GA), Bush_47 (GA), Carrillo_48 (GA), CookieDog_46 (GA), Dropshot_46 (GA), Guzman_46 (GA), Jakelyne_48 (GA), Losacky_48 (GA), Mariel_47 (GA), MenE_48 (GA), NCRodriguez_48 (GA), PhillyJawn_47 (GA), Phingu_49 (GA), Phonegingi_46 (GA), Pickles13_45 (GA), ScoobySnack_43 (GA), Violeta_48 (GA), Warren_46 (GA), Winchester007_48 (GA),

Start 47:
• Found in 2 of 165 (1.2%) of genes in pham
• Manual Annotations of this start: 1 of 152
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Wrackline_72 (GF),

Start 49:
• Found in 59 of 165 (35.8%) of genes in pham
• Manual Annotations of this start: 3 of 152
• Called 6.8% of time when present
• Phage (with cluster) where this start called: Causa_2 (AI), Jace_85 (singleton), Olivio_1 (B3), StAugustine_2 (AI),

Start 50:
• Found in 7 of 165 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Coco2012_1 (DR), JellyBelly_1 (DR),

Start 51:
• Found in 124 of 165 (75.2%) of genes in pham
• Manual Annotations of this start: 6 of 152
• Called 5.6% of time when present
• Phage (with cluster) where this start called: Bernardo_1 (B3), Kamiyu_1 (B3), Marlia_1 (B3), Morty007_1 (B3), Phaedrus_1 (B3), Tydolla_1 (B3), Yahalom_1 (B3),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, B2, GF, AI, AL, AO, FH, B7, GA, B3, Y, DR, B9,

Info for manual annotations of cluster AI:
•Start number 49 was manually annotated 2 times for cluster AI.

Info for manual annotations of cluster AL:
•Start number 25 was manually annotated 2 times for cluster AL.
•Start number 32 was manually annotated 2 times for cluster AL.
•Start number 39 was manually annotated 5 times for cluster AL.

Info for manual annotations of cluster AO:
•Start number 36 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster B2:
•Start number 15 was manually annotated 32 times for cluster B2.
•Start number 20 was manually annotated 2 times for cluster B2.
•Start number 21 was manually annotated 2 times for cluster B2.
•Start number 28 was manually annotated 1 time for cluster B2.

Info for manual annotations of cluster B3:
•Start number 26 was manually annotated 46 times for cluster B3.
•Start number 31 was manually annotated 1 time for cluster B3.
•Start number 51 was manually annotated 6 times for cluster B3.

Info for manual annotations of cluster B7:
•Start number 22 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:
•Start number 34 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster DR:
•Start number 30 was manually annotated 1 time for cluster DR.
•Start number 31 was manually annotated 10 times for cluster DR.
•Start number 42 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster FH:
•Start number 35 was manually annotated 7 times for cluster FH.

Info for manual annotations of cluster GA:
•Start number 43 was manually annotated 17 times for cluster GA.

Info for manual annotations of cluster GF:
•Start number 47 was manually annotated 1 time for cluster GF.

Info for manual annotations of cluster Y:
•Start number 29 was manually annotated 6 times for cluster Y.

Gene Information:

Gene: Abinghost_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Abinghost_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114,

541),

Gene: Akoma_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Akoma_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: AksarBAT_1 Start: 10, Stop: 633, Start Num: 31
Candidate Starts for AksarBAT_1:
(Start: 30 @1 has 1 MA's), (Start: 31 @10 has 11 MA's), (55, 103), (56, 109), (63, 154), (66, 193), (70, 217), (81, 292), (99, 424), (107, 463), (120, 547), (127, 580), (139, 619), (140, 622), (142, 628),

Gene: Allegro_1 Start: 76, Stop: 792, Start Num: 21
Candidate Starts for Allegro_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Altadena_60 Start: 38689, Stop: 39465, Start Num: 35
Candidate Starts for Altadena_60:
(2, 38008), (3, 38044), (4, 38092), (6, 38137), (7, 38146), (Start: 35 @38689 has 7 MA's), (103, 39097), (105, 39103), (146, 39301), (153, 39325), (156, 39394),

Gene: Antuna_48 Start: 29370, Stop: 29903, Start Num: 43
Candidate Starts for Antuna_48:
(11, 29136), (12, 29148), (18, 29226), (Start: 43 @29370 has 17 MA's), (Start: 51 @29394 has 6 MA's), (59, 29472), (63, 29496), (64, 29499), (66, 29535), (70, 29559), (77, 29598), (84, 29628), (85, 29637), (109, 29784),

Gene: ApoKipo_5 Start: 3227, Stop: 3832, Start Num: 39
Candidate Starts for ApoKipo_5:
(Start: 25 @3182 has 2 MA's), (Start: 32 @3209 has 2 MA's), (Start: 39 @3227 has 5 MA's), (Start: 51 @3257 has 6 MA's), (55, 3308), (64, 3362), (81, 3473), (100, 3602), (115, 3680), (147, 3809), (149, 3812),

Gene: Appa_46 Start: 29135, Stop: 29668, Start Num: 43
Candidate Starts for Appa_46:
(Start: 43 @29135 has 17 MA's), (Start: 51 @29159 has 6 MA's), (59, 29237), (63, 29261), (64, 29264), (66, 29300), (70, 29324), (77, 29363), (84, 29393), (85, 29402), (109, 29549),

Gene: Arbiter_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Arbiter_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Ares_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Ares_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Athena_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Athena_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Audrey_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Audrey_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (63, 175), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: AuntGwenStacy_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for AuntGwenStacy_1:
(Start: 29 @202 has 6 MA's), (41, 235), (45, 247), (60, 352), (62, 364), (63, 367), (66, 406), (67, 409), (70, 430), (72, 445), (81, 481), (93, 559), (107, 652), (123, 760), (124, 763), (125, 766), (136, 814), (145, 850),

Gene: Axumite_1 Start: 1, Stop: 606, Start Num: 31
Candidate Starts for Axumite_1:
(Start: 31 @1 has 11 MA's), (55, 85), (59, 112), (63, 136), (66, 175), (92, 349), (111, 472), (127, 553), (139, 592), (140, 595), (142, 601),

Gene: Baloo_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Baloo_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Bananafish_1 Start: 37, Stop: 792, Start Num: 20
Candidate Starts for Bananafish_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Ben11_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Ben11_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Bernardo_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Bernardo_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: BiggityBass_1 Start: 1, Stop: 600, Start Num: 31
Candidate Starts for BiggityBass_1:
(Start: 31 @1 has 11 MA's), (50, 28), (55, 79), (61, 118), (66, 169), (85, 295), (118, 508), (139, 586),

Gene: Bipper_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for Bipper_1:

(13, 25), (Start: 29 @202 has 6 MA's), (45, 247), (52, 271), (60, 352), (62, 364), (63, 367), (66, 406), (70, 430), (78, 472), (81, 481), (93, 559), (96, 571), (124, 763), (125, 766), (136, 814), (144, 844),

Gene: Blett_46 Start: 29321, Stop: 29854, Start Num: 43
Candidate Starts for Blett_46:
(Start: 43 @29321 has 17 MA's), (Start: 51 @29345 has 6 MA's), (59, 29423), (63, 29447), (64, 29450), (66, 29486), (70, 29510), (77, 29549), (84, 29579), (85, 29588), (109, 29735),

Gene: Blocker23_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Blocker23_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Bolt007_62 Start: 40946, Stop: 41710, Start Num: 35
Candidate Starts for Bolt007_62:
(1, 40265), (4, 40349), (5, 40358), (6, 40394), (7, 40403), (Start: 35 @40946 has 7 MA's), (79, 41186), (103, 41339), (105, 41345), (146, 41537), (148, 41540), (150, 41543), (153, 41561), (156, 41630),

Gene: Boyle_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Boyle_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Briakila_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Briakila_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Brownie5_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Brownie5_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Bumble_59 Start: 39508, Stop: 40269, Start Num: 35
Candidate Starts for Bumble_59:
(Start: 35 @39508 has 7 MA's), (79, 39748), (98, 39865), (105, 39907), (146, 40111), (153, 40135), (154, 40141), (156, 40204),

Gene: Bush_47 Start: 29269, Stop: 29802, Start Num: 43
Candidate Starts for Bush_47:
(Start: 43 @29269 has 17 MA's), (Start: 51 @29293 has 6 MA's), (59, 29371), (63, 29395), (64, 29398), (66, 29434), (70, 29458), (77, 29497), (84, 29527), (85, 29536), (109, 29683),

Gene: CRB2_1 Start: 1, Stop: 633, Start Num: 34
Candidate Starts for CRB2_1:
(Start: 34 @1 has 3 MA's), (66, 187), (85, 313), (86, 316), (102, 433), (133, 601),

Gene: CalWood4100_65 Start: 40886, Stop: 41671, Start Num: 35
Candidate Starts for CalWood4100_65:

(Start: 35 @40886 has 7 MA's), (69, 41078), (79, 41126), (93, 41210), (103, 41279), (105, 41285), (146, 41498), (148, 41501), (150, 41504), (153, 41522), (156, 41591),

Gene: Calamitous_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Calamitous_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Carrillo_48 Start: 29243, Stop: 29776, Start Num: 43
Candidate Starts for Carrillo_48:
(18, 29099), (Start: 43 @29243 has 17 MA's), (Start: 51 @29267 has 6 MA's), (59, 29345), (63, 29369), (64, 29372), (66, 29408), (70, 29432), (77, 29471), (84, 29501), (85, 29510), (109, 29657),

Gene: Casbah_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Casbah_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Causa_2 Start: 428, Stop: 1015, Start Num: 49
Candidate Starts for Causa_2:
(24, 359), (44, 416), (45, 419), (Start: 49 @428 has 3 MA's), (Start: 51 @437 has 6 MA's), (64, 542), (66, 578), (73, 626), (76, 662), (83, 689), (90, 740), (106, 836), (133, 989),

Gene: ChaChing_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for ChaChing_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Chalmers_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Chalmers_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Chandler_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Chandler_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: CharlottesWeb_1 Start: 1, Stop: 612, Start Num: 31
Candidate Starts for CharlottesWeb_1:
(Start: 31 @1 has 11 MA's), (50, 40), (55, 91), (63, 142), (66, 181), (75, 262), (81, 280), (85, 307), (111, 478), (120, 526), (127, 559), (139, 598), (140, 601), (142, 607),

Gene: Chentzyk_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Chentzyk_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Circuit_59 Start: 40042, Stop: 40803, Start Num: 35
Candidate Starts for Circuit_59:
(Start: 35 @40042 has 7 MA's), (105, 40438), (146, 40645), (148, 40648), (153, 40669), (154, 40675), (156, 40738), (157, 40750),

Gene: Coco2012_1 Start: 40, Stop: 612, Start Num: 50
Candidate Starts for Coco2012_1:
(Start: 31 @1 has 11 MA's), (50, 40), (55, 91), (63, 142), (66, 181), (75, 262), (81, 280), (85, 307), (111, 478), (120, 526), (127, 559), (139, 598), (140, 601), (142, 607),

Gene: Coffee_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Coffee_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Coldpizza_1 Start: 1, Stop: 699, Start Num: 31
Candidate Starts for Coldpizza_1:
(Start: 31 @1 has 11 MA's), (55, 100), (58, 121), (81, 289), (96, 379), (99, 421), (118, 538), (126, 571), (131, 592), (143, 628), (155, 691),

Gene: Compostia_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Compostia_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: CookieDog_46 Start: 29243, Stop: 29776, Start Num: 43
Candidate Starts for CookieDog_46:
(18, 29099), (Start: 43 @29243 has 17 MA's), (Start: 51 @29267 has 6 MA's), (59, 29345), (63, 29369), (64, 29372), (66, 29408), (70, 29432), (77, 29471), (84, 29501), (85, 29510), (109, 29657),

Gene: Corofin_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Corofin_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Cracklewink_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for Cracklewink_1:
(13, 25), (Start: 29 @202 has 6 MA's), (45, 247), (52, 271), (58, 337), (60, 352), (62, 364), (63, 367), (66, 406), (70, 430), (78, 472), (81, 481), (93, 559), (96, 571), (124, 763), (125, 766), (136, 814), (144, 844),

Gene: Daisy_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Daisy_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Deenasa_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Deenasa_1:

(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Devonte_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Devonte_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Dropshot_46 Start: 28970, Stop: 29503, Start Num: 43
Candidate Starts for Dropshot_46:
(Start: 43 @28970 has 17 MA's), (Start: 51 @28994 has 6 MA's), (59, 29072), (63, 29096), (64, 29099), (66, 29135), (70, 29159), (77, 29198), (84, 29228), (85, 29237), (109, 29384),

Gene: Eaglehorse_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Eaglehorse_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: EastWest_74 Start: 43726, Stop: 44280, Start Num: 36
Candidate Starts for EastWest_74:
(Start: 36 @43726 has 1 MA's), (63, 43861), (64, 43864), (77, 43951), (82, 43972), (85, 43990), (132, 44260), (135, 44266),

Gene: Edmundo_4 Start: 3516, Stop: 4121, Start Num: 39
Candidate Starts for Edmundo_4:
(Start: 32 @3498 has 2 MA's), (33, 3501), (Start: 39 @3516 has 5 MA's), (Start: 51 @3546 has 6 MA's), (55, 3597), (65, 3657), (76, 3747), (79, 3756), (113, 3951), (116, 3972), (151, 4104),

Gene: Faiyaz_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for Faiyaz_1:
(Start: 29 @202 has 6 MA's), (41, 235), (45, 247), (60, 352), (62, 364), (63, 367), (66, 406), (67, 409), (70, 430), (72, 445), (81, 481), (93, 559), (107, 652), (123, 760), (124, 763), (125, 766), (136, 814), (145, 850),

Gene: Faze9_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Faze9_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Finch_210 Start: 122277, Stop: 122888, Start Num: 42
Candidate Starts for Finch_210:
(Start: 42 @122277 has 2 MA's), (Start: 47 @122289 has 1 MA's), (48, 122292), (53, 122322), (54, 122343), (62, 122400), (66, 122442), (70, 122466), (80, 122535), (81, 122541), (85, 122568), (116, 122775), (118, 122787), (121, 122796),

Gene: FrenchFry_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for FrenchFry_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85,

463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Fresco_1 Start: 1, Stop: 606, Start Num: 31
Candidate Starts for Fresco_1:
(Start: 31 @1 has 11 MA's), (55, 85), (59, 112), (63, 136), (66, 175), (92, 349), (111, 472), (127, 553), (139, 592), (140, 595), (142, 601),

Gene: Gadjet_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Gadjet_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Gervas_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Gervas_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Glass_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Glass_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: GlenHope_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for GlenHope_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Glubnar_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Glubnar_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Godines_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Godines_1:
(Start: 15 @1 has 32 MA's), (17, 28), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (104, 595), (116, 679),

Gene: Guzman_46 Start: 29226, Stop: 29759, Start Num: 43
Candidate Starts for Guzman_46:
(18, 29082), (Start: 43 @29226 has 17 MA's), (Start: 51 @29250 has 6 MA's), (59, 29328), (63, 29352), (64, 29355), (66, 29391), (70, 29415), (77, 29454), (84, 29484), (85, 29493), (109, 29640),

Gene: Halfpint_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Halfpint_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: HarveySr_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for HarveySr_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Heathcliff_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Heathcliff_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Hedgerow_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Hedgerow_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Hilltopfarm_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for Hilltopfarm_1:
(Start: 29 @202 has 6 MA's), (41, 235), (45, 247), (60, 352), (63, 367), (66, 406), (67, 409), (70, 430), (72, 445), (81, 481), (93, 559), (96, 571), (107, 652), (123, 760), (124, 763), (125, 766), (136, 814), (145, 850),

Gene: Holeinone_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Holeinone_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: ItsyBitsy1_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for ItsyBitsy1_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Jace_85 Start: 47046, Stop: 47594, Start Num: 49
Candidate Starts for Jace_85:
(Start: 49 @47046 has 3 MA's), (66, 47202), (69, 47223), (85, 47304), (86, 47307), (96, 47367), (129, 47559), (134, 47577), (137, 47586), (138, 47589),

Gene: Jackstina_1 Start: 22, Stop: 693, Start Num: 31
Candidate Starts for Jackstina_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Jakelyne_48 Start: 29336, Stop: 29869, Start Num: 43
Candidate Starts for Jakelyne_48:
(11, 29102), (18, 29192), (Start: 43 @29336 has 17 MA's), (Start: 51 @29360 has 6 MA's), (59, 29438), (63, 29462), (64, 29465), (66, 29501), (70, 29525), (77, 29564), (84, 29594), (85, 29603), (109, 29750),

Gene: JellyBelly_1 Start: 40, Stop: 612, Start Num: 50

Candidate Starts for JellyBelly_1:
(Start: 31 @1 has 11 MA's), (50, 40), (55, 91), (63, 142), (66, 181), (75, 262), (81, 280), (85, 307), (111, 478), (120, 526), (127, 559), (139, 598), (140, 601), (142, 607),

Gene: Kaleb_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Kaleb_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Kamiyu_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Kamiyu_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Kheth_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Kheth_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Klevey_64 Start: 40643, Stop: 41416, Start Num: 35
Candidate Starts for Klevey_64:
(3, 39998), (4, 40046), (5, 40055), (6, 40091), (Start: 35 @40643 has 7 MA's), (69, 40835), (79, 40883), (105, 41042), (146, 41243), (148, 41246), (150, 41249), (153, 41267), (156, 41336),

Gene: Kolhan_1 Start: 37, Stop: 792, Start Num: 20
Candidate Starts for Kolhan_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Kovu_5 Start: 3470, Stop: 4075, Start Num: 39
Candidate Starts for Kovu_5:
(Start: 25 @3425 has 2 MA's), (Start: 32 @3452 has 2 MA's), (Start: 39 @3470 has 5 MA's), (Start: 51 @3500 has 6 MA's), (55, 3551), (63, 3602), (77, 3704), (81, 3716), (100, 3845), (115, 3923), (147, 4052), (149, 4055),

Gene: Kronus_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Kronus_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Laroye_5 Start: 3276, Stop: 3899, Start Num: 32
Candidate Starts for Laroye_5:
(Start: 32 @3276 has 2 MA's), (33, 3279), (Start: 39 @3294 has 5 MA's), (Start: 51 @3324 has 6 MA's), (55, 3375), (63, 3426), (65, 3435), (76, 3525), (79, 3534), (81, 3540), (85, 3567), (113, 3729), (116, 3750), (151, 3882),

Gene: Lars_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Lars_1:

(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Laurie_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Laurie_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Lephleur_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Lephleur_1:
(Start: 15 @1 has 32 MA's), (17, 28), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: LestyG_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for LestyG_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: LiSara_5 Start: 3325, Stop: 3930, Start Num: 39
Candidate Starts for LiSara_5:
(27, 3286), (Start: 32 @3307 has 2 MA's), (33, 3310), (Start: 39 @3325 has 5 MA's), (Start: 51 @3355 has 6 MA's), (55, 3406), (63, 3457), (65, 3466), (76, 3556), (79, 3565), (81, 3571), (85, 3598), (113, 3760), (116, 3781), (151, 3913),

Gene: Ligma_1 Start: 1, Stop: 606, Start Num: 31
Candidate Starts for Ligma_1:
(Start: 31 @1 has 11 MA's), (55, 85), (59, 112), (63, 136), (66, 175), (92, 349), (111, 472), (127, 553), (139, 592), (140, 595), (142, 601),

Gene: LilSmirk_1 Start: 133, Stop: 792, Start Num: 28
Candidate Starts for LilSmirk_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (88, 490), (101, 583), (102, 589), (116, 679),

Gene: Lilmac1015_65 Start: 40886, Stop: 41671, Start Num: 35
Candidate Starts for Lilmac1015_65:
(Start: 35 @40886 has 7 MA's), (69, 41078), (79, 41126), (93, 41210), (103, 41279), (105, 41285), (146, 41498), (148, 41501), (150, 41504), (153, 41522), (156, 41591),

Gene: LizLemon_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for LizLemon_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Losacky_48 Start: 29501, Stop: 30034, Start Num: 43
Candidate Starts for Losacky_48:

(8, 29048), (14, 29321), (19, 29360), (Start: 43 @29501 has 17 MA's), (Start: 51 @29525 has 6 MA's), (59, 29603), (63, 29627), (64, 29630), (66, 29666), (70, 29690), (77, 29729), (84, 29759), (85, 29768),

Gene: Mariel_47 Start: 29708, Stop: 30241, Start Num: 43
Candidate Starts for Mariel_47:
(11, 29474), (12, 29486), (18, 29564), (Start: 43 @29708 has 17 MA's), (Start: 51 @29732 has 6 MA's), (59, 29810), (63, 29834), (64, 29837), (66, 29873), (70, 29897), (77, 29936), (84, 29966), (85, 29975), (109, 30122),

Gene: Mariokart_1 Start: 1, Stop: 612, Start Num: 31
Candidate Starts for Mariokart_1:
(Start: 31 @1 has 11 MA's), (50, 40), (55, 91), (63, 142), (66, 181), (75, 262), (81, 280), (85, 307), (120, 526), (127, 559), (140, 601),

Gene: Marley1013_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Marley1013_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Marlia_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Marlia_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: MasterPo_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for MasterPo_1:
(Start: 15 @1 has 32 MA's), (17, 28), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: MenE_48 Start: 29392, Stop: 29925, Start Num: 43
Candidate Starts for MenE_48:
(11, 29158), (12, 29170), (18, 29248), (Start: 43 @29392 has 17 MA's), (Start: 51 @29416 has 6 MA's), (59, 29494), (63, 29518), (64, 29521), (66, 29557), (70, 29581), (77, 29620), (84, 29650), (85, 29659),

Gene: MmasiCarm_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for MmasiCarm_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Mortcellus_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Mortcellus_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Morty007_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Morty007_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114,

541),

Gene: Mulaychimus_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Mulaychimus_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: NCRodriguez_48 Start: 29462, Stop: 29995, Start Num: 43
Candidate Starts for NCRodriguez_48:
(Start: 43 @29462 has 17 MA's), (Start: 51 @29486 has 6 MA's), (59, 29564), (63, 29588), (64, 29591), (66, 29627), (70, 29651), (77, 29690), (84, 29720), (85, 29729), (109, 29876),

Gene: NHagos_1 Start: 1, Stop: 633, Start Num: 30
Candidate Starts for NHagos_1:
(Start: 30 @1 has 1 MA's), (Start: 31 @10 has 11 MA's), (55, 103), (56, 109), (63, 154), (66, 193), (70, 217), (81, 292), (99, 424), (107, 463), (120, 547), (127, 580), (139, 619), (140, 622), (142, 628),

Gene: Nandito_63 Start: 41050, Stop: 41814, Start Num: 35
Candidate Starts for Nandito_63:
(3, 40405), (4, 40453), (6, 40498), (7, 40507), (10, 40807), (Start: 35 @41050 has 7 MA's), (146, 41641), (150, 41647), (153, 41665), (154, 41671),

Gene: Neos5_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Neos5_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Nozo_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Nozo_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Obutu_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Obutu_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Olivio_1 Start: 64, Stop: 699, Start Num: 49
Candidate Starts for Olivio_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Opia_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Opia_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: OrangeOswald_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for OrangeOswald_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: PenguinLover67_1 Start: 1, Stop: 633, Start Num: 34
Candidate Starts for PenguinLover67_1:
(Start: 34 @1 has 3 MA's), (66, 187), (83, 298), (85, 313), (86, 316), (102, 433), (133, 601),

Gene: Phaedrus_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Phaedrus_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Phantasmagoria_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Phantasmagoria_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (102, 589), (104, 595), (116, 679),

Gene: Phayeta_1 Start: 1, Stop: 699, Start Num: 26
Candidate Starts for Phayeta_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541), (152, 694),

Gene: Philly_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Philly_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: PhillyJawn_47 Start: 29132, Stop: 29665, Start Num: 43
Candidate Starts for PhillyJawn_47:
(Start: 43 @29132 has 17 MA's), (Start: 51 @29156 has 6 MA's), (59, 29234), (63, 29258), (64, 29261), (66, 29297), (70, 29321), (77, 29360), (84, 29390), (85, 29399), (109, 29546),

Gene: Phingu_49 Start: 29357, Stop: 29890, Start Num: 43
Candidate Starts for Phingu_49:
(Start: 43 @29357 has 17 MA's), (Start: 51 @29381 has 6 MA's), (59, 29459), (63, 29483), (64, 29486), (66, 29522), (70, 29546), (77, 29585), (84, 29615), (85, 29624), (109, 29771),

Gene: Phlyer_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Phlyer_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Phonegingi_46 Start: 29171, Stop: 29704, Start Num: 43
Candidate Starts for Phonegingi_46:

(Start: 43 @29171 has 17 MA's), (Start: 51 @29195 has 6 MA's), (59, 29273), (63, 29297), (64, 29300), (66, 29336), (70, 29360), (77, 29399), (84, 29429), (85, 29438), (109, 29585), (130, 29693),

Gene: Pickles13_45 Start: 29439, Stop: 29972, Start Num: 43
Candidate Starts for Pickles13_45:
(11, 29202), (16, 29286), (Start: 43 @29439 has 17 MA's), (Start: 51 @29463 has 6 MA's), (59, 29541), (63, 29565), (64, 29568), (66, 29604), (70, 29628), (77, 29667), (84, 29697), (109, 29853),

Gene: Pipefish_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Pipefish_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Prairie_62 Start: 40182, Stop: 40967, Start Num: 35
Candidate Starts for Prairie_62:
(3, 39537), (4, 39585), (5, 39594), (Start: 35 @40182 has 7 MA's), (69, 40374), (79, 40422), (103, 40575), (105, 40581), (146, 40794), (148, 40797), (150, 40800), (153, 40818), (156, 40887),

Gene: PrinceCharming_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for PrinceCharming_1:
(Start: 15 @1 has 32 MA's), (17, 28), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (96, 526), (102, 589), (104, 595), (116, 679),

Gene: Quesadilla_1 Start: 1, Stop: 633, Start Num: 34
Candidate Starts for Quesadilla_1:
(Start: 34 @1 has 3 MA's), (55, 97), (66, 187), (74, 265), (85, 313), (102, 433),

Gene: Qyrzula_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Qyrzula_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: RagingRooster_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for RagingRooster_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Rhinoforte_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Rhinoforte_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Rita1961_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Rita1961_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: RomaT_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for RomaT_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Rosebush_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Rosebush_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Sabella_1 Start: 76, Stop: 792, Start Num: 21
Candidate Starts for Sabella_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Saguaro_1 Start: 1, Stop: 735, Start Num: 22
Candidate Starts for Saguaro_1:
(Start: 22 @1 has 1 MA's), (23, 28), (Start: 34 @79 has 3 MA's), (57, 187), (66, 265), (76, 349), (79, 358), (81, 364), (83, 376), (85, 391), (86, 394), (94, 445), (104, 517), (122, 625), (141, 700),

Gene: Salgado_5 Start: 3284, Stop: 3907, Start Num: 32
Candidate Starts for Salgado_5:
(Start: 32 @3284 has 2 MA's), (33, 3287), (Start: 39 @3302 has 5 MA's), (Start: 51 @3332 has 6 MA's), (55, 3383), (63, 3434), (65, 3443), (76, 3533), (79, 3542), (81, 3548), (85, 3575), (113, 3737), (116, 3758), (151, 3890),

Gene: ScoobySnack_43 Start: 28932, Stop: 29465, Start Num: 43
Candidate Starts for ScoobySnack_43:
(Start: 43 @28932 has 17 MA's), (Start: 51 @28956 has 6 MA's), (59, 29034), (63, 29058), (64, 29061), (66, 29097), (70, 29121), (77, 29160), (84, 29190), (85, 29199), (89, 29232), (109, 29346),

Gene: Shatter_1 Start: 1, Stop: 606, Start Num: 31
Candidate Starts for Shatter_1:
(Start: 31 @1 has 11 MA's), (55, 85), (59, 112), (63, 136), (66, 175), (92, 349), (111, 472), (127, 553), (139, 592), (140, 595), (142, 601),

Gene: Shenandoah_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Shenandoah_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Shrooms_5 Start: 3310, Stop: 3960, Start Num: 25
Candidate Starts for Shrooms_5:
(9, 3046), (Start: 25 @3310 has 2 MA's), (Start: 39 @3355 has 5 MA's), (Start: 51 @3385 has 6 MA's), (55, 3436), (62, 3484), (63, 3487), (79, 3595), (81, 3601), (119, 3826), (133, 3889),

Gene: Sisko_1 Start: 1, Stop: 600, Start Num: 31
Candidate Starts for Sisko_1:
(Start: 31 @1 has 11 MA's), (50, 28), (55, 79), (61, 118), (85, 295), (139, 586), (140, 589),

Gene: SlippinJimmy_1 Start: 22, Stop: 693, Start Num: 31
Candidate Starts for SlippinJimmy_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Sour_1 Start: 1, Stop: 615, Start Num: 42
Candidate Starts for Sour_1:
(Start: 42 @1 has 2 MA's), (63, 130), (66, 169), (70, 193), (81, 268), (85, 295), (102, 415), (133, 583),

Gene: StAugustine_2 Start: 428, Stop: 1015, Start Num: 49
Candidate Starts for StAugustine_2:
(24, 359), (44, 416), (45, 419), (Start: 49 @428 has 3 MA's), (Start: 51 @437 has 6 MA's), (64, 542), (66, 578), (73, 626), (76, 662), (83, 689), (90, 740), (106, 836), (133, 989),

Gene: SwainyDoc_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for SwainyDoc_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: SynergyX_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for SynergyX_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: TA17A_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for TA17A_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679), (117, 688),

Gene: Tinciduntsolum_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Tinciduntsolum_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: TinyTerror_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for TinyTerror_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Tres_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for Tres_1:
(Start: 15 @1 has 32 MA's), (Start: 20 @37 has 2 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: TurkishDelight_122 Start: 89500, Stop: 90093, Start Num: 38

Candidate Starts for TurkishDelight_122:
(Start: 38 @89500 has 1 MA's), (46, 89518), (55, 89584), (69, 89689),

Gene: Tydolla_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Tydolla_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Typha_1 Start: 202, Stop: 861, Start Num: 29
Candidate Starts for Typha_1:
(Start: 29 @202 has 6 MA's), (41, 235), (45, 247), (60, 352), (62, 364), (63, 367), (66, 406), (67, 409), (70, 430), (72, 445), (81, 481), (93, 559), (107, 652), (123, 760), (124, 763), (125, 766), (136, 814), (145, 850),

Gene: Vic9_00001 Start: 133, Stop: 792, Start Num: 28
Candidate Starts for Vic9_00001:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (116, 679),

Gene: Violeta_48 Start: 29234, Stop: 29767, Start Num: 43
Candidate Starts for Violeta_48:
(18, 29090), (Start: 43 @29234 has 17 MA's), (Start: 51 @29258 has 6 MA's), (59, 29336), (63, 29360), (64, 29363), (66, 29399), (70, 29423), (77, 29462), (84, 29492), (85, 29501), (109, 29648),

Gene: Waltz_5 Start: 3398, Stop: 4048, Start Num: 25
Candidate Starts for Waltz_5:
(Start: 25 @3398 has 2 MA's), (Start: 39 @3443 has 5 MA's), (Start: 51 @3473 has 6 MA's), (55, 3524), (62, 3572), (79, 3683), (81, 3689), (133, 3977),

Gene: Warren_46 Start: 29178, Stop: 29711, Start Num: 43
Candidate Starts for Warren_46:
(Start: 43 @29178 has 17 MA's), (Start: 51 @29202 has 6 MA's), (59, 29280), (63, 29304), (64, 29307), (67, 29346), (70, 29367), (77, 29406), (84, 29436), (85, 29445), (109, 29592),

Gene: West99_1 Start: 1, Stop: 792, Start Num: 15
Candidate Starts for West99_1:
(Start: 15 @1 has 32 MA's), (Start: 21 @76 has 2 MA's), (Start: 28 @133 has 1 MA's), (40, 172), (44, 181), (Start: 51 @202 has 6 MA's), (66, 343), (67, 346), (70, 367), (71, 373), (76, 421), (81, 436), (85, 463), (87, 469), (101, 583), (102, 589), (103, 592), (104, 595), (116, 679),

Gene: Wheelbite_5 Start: 3393, Stop: 3998, Start Num: 39
Candidate Starts for Wheelbite_5:
(Start: 32 @3375 has 2 MA's), (33, 3378), (Start: 39 @3393 has 5 MA's), (Start: 51 @3423 has 6 MA's), (55, 3474), (65, 3534), (79, 3633), (113, 3828), (116, 3849), (151, 3981),

Gene: Winchester007_48 Start: 29270, Stop: 29803, Start Num: 43
Candidate Starts for Winchester007_48:
(Start: 43 @29270 has 17 MA's), (Start: 51 @29294 has 6 MA's), (59, 29372), (63, 29396), (64, 29399), (66, 29435), (70, 29459), (77, 29498), (84, 29528), (85, 29537), (109, 29684),

Gene: Wrackline_72 Start: 37846, Stop: 38481, Start Num: 47

Candidate Starts for Wrackline_72:
(37, 37825), (Start: 47 @37846 has 1 MA's), (52, 37867), (55, 37912), (64, 37966), (66, 38002), (68, 38020), (79, 38071), (85, 38104), (91, 38149), (92, 38152), (95, 38164), (97, 38191), (99, 38221), (101, 38230), (105, 38245), (108, 38263), (112, 38308), (115, 38329), (116, 38332), (119, 38347), (128, 38389),

Gene: Yago84_1 Start: 1, Stop: 600, Start Num: 31
Candidate Starts for Yago84_1:
(Start: 31 @1 has 11 MA's), (50, 28), (55, 79), (61, 118), (85, 295), (110, 463), (139, 586), (140, 589),

Gene: Yahalom_1 Start: 73, Stop: 693, Start Num: 51
Candidate Starts for Yahalom_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),

Gene: Yinz_1 Start: 1, Stop: 693, Start Num: 26
Candidate Starts for Yinz_1:
(Start: 26 @1 has 46 MA's), (Start: 31 @22 has 11 MA's), (Start: 49 @64 has 3 MA's), (Start: 51 @73 has 6 MA's), (59, 151), (63, 175), (66, 214), (72, 253), (79, 307), (81, 313), (85, 340), (106, 478), (114, 541),