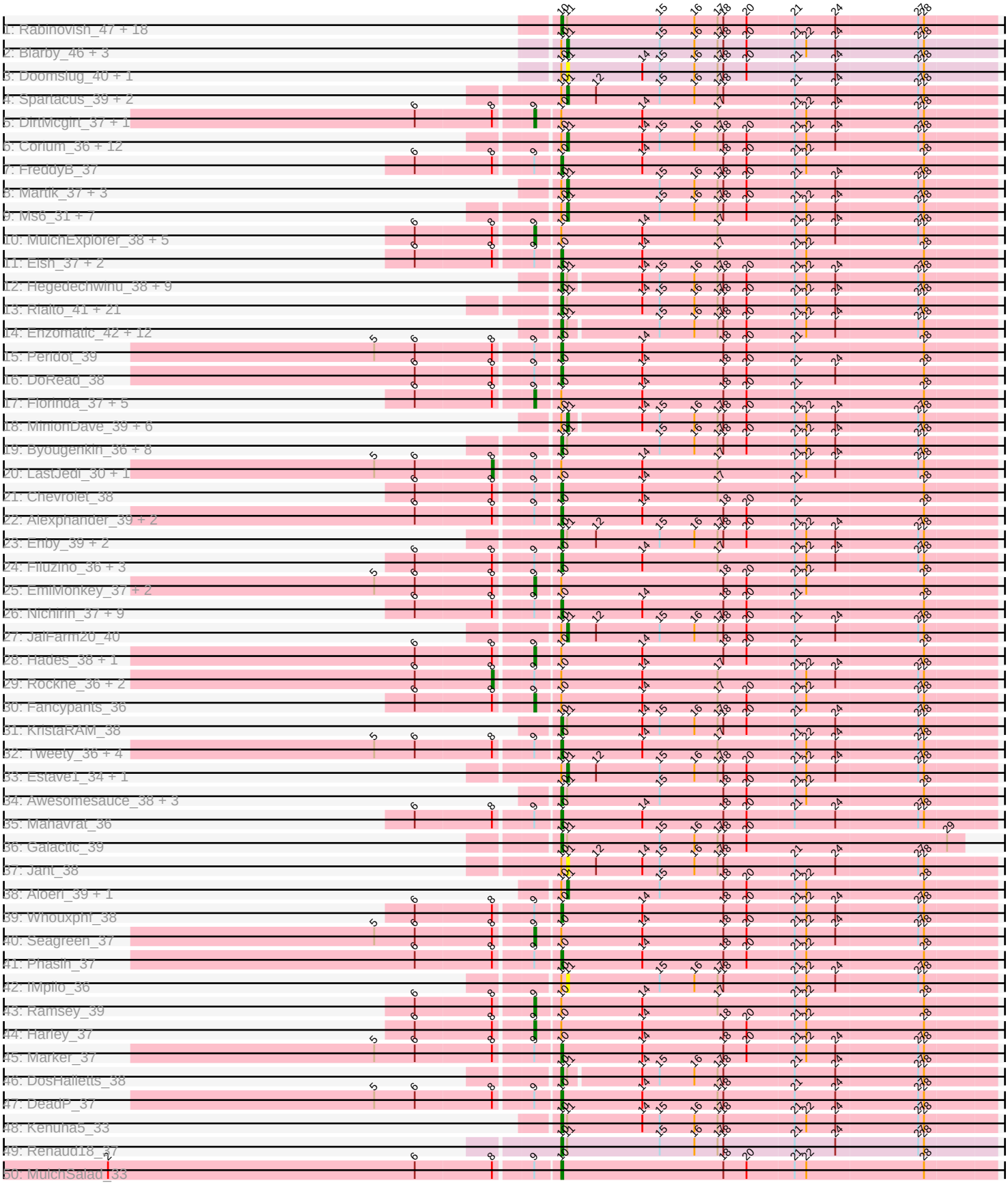
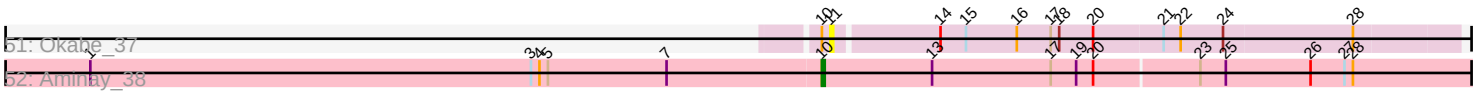
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1: Rabinovish_47 + 18
2: Blarby_46 + 3
3: Doomslug_40 + 1
4: Spartacus_39 + 2
5: DirtMcgirt_37 + 1
6: Conum_36 + 12
7: FreddyB_37
8: Martik_37 + 3
9: MS6_31 + 7
10: MulchExplorer_38 + 5
11: Elsh_37 + 2
12: Hegedechwinu_38 + 9
13: Rialto_41 + 21
14: Enzomatic_42 + 12
15: Peridot_39
16: DoRead_38
17: Florinda_37 + 5
18: MinionDave_39 + 6
19: Byougenkin_36 + 8
20: LastJedi_30 + 1
21: Chevrolet_38
22: Alexphander_39 + 2
23: Emby_39 + 2
24: Filuzino_36 + 3
25: EmiMonkey_37 + 2
26: Nichirin_37 + 9
27: JaiFarm20_40
28: Hades_38 + 1
29: Rockne_36 + 2
30: Fancypants_36
31: KristaRAM_38
32: Tweety_36 + 4
33: Estave1_34 + 1
34: Awesomesauce_38 + 3
35: Mahavrat_36
36: Galactic_39
37: Jant_38
38: Aloeri_39 + 1
39: Whouxphi_38
40: Seagreen_37
41: Phasin_37
42: Mpilo_36
43: Ramsey_39
44: Harley_37
45: Marker_37
46: DosHalletts_38
47: DeadP_37
48: Kenuna5_33
49: Renaud18_37
50: MulchSalad_33

Pham 345399



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 345399 Report

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

Pham number 345399 has 198 members, 21 are drafts.

Phages represented in each track:
• Track 1 : Rabinovish_47, Pippy_30, SwagPigglett_37, NormanBulbieJr_37, Koella_30, Cabrinians_36, Jennelsea_31, Nivrat_36, SilverChicken_44, ShowerHandel_37, Zizzle_36, Priscilla_36, Crumble_30, LilMoolah_36, Burwell21_36, ShiLan_36, Jarcob_36, BobaPhett_36, Beanstalk_39
• Track 2 : Blarby_46, Wachhund_36, Phalconet_37, Philus_36
• Track 3 : Doomslug_40, Ardmore_35
• Track 4 : Spartacus_39, WillSterrel_39, IrishSherpFalk_39
• Track 5 : DirtMcgirt_37, Drago_38
• Track 6 : Corium_36, Bobi_38, Yassified_47, Stubby_44, Astraea_50, Shaqnato_44, Bezza_44, KingJulian_37, Brookers_35, Morizzled23_51, PatoPoderoso_36, Shauna1_34, Tootsieroll_38
• Track 7 : FreddyB_37
• Track 8 : Martik_37, Doomphist_37, Poenanya_37, Lizziana_36
• Track 9 : Ms6_31, PhesterPhotato_37, Fruitloop_35, StAnnes_36, Brushbloom_38, LunaBlu_40, Strokeseat_38, Melissauren88_36
• Track 10 : MulchExplorer_38, Grimmer_38, Spikelee_38, BodEinwohner17_36, Yorick_36, Pollywog_36
• Track 11 : Eish_37, Sassafras_37, Radiance_37
• Track 12 : Hegedechwinu_38, SuperGrey_38, MilleniumForce_38, Sandalphon_37, CaptainTrips_37, Donkeykong_37, Moonbeam_37, Chuckly_37, PopTart_36, SassyB_36
• Track 13 : Rialto_41, IbOuu_38, Akhila_30, Alice_43, Lukilu_43, Pupusa_55, Bipolar_34, Koguma_45, Emma_39, EasyJones_50, MilanaBonita_30, Grungle_41, Phanphagia_33, Juice456_39, Phox_47, Coco12_36, JulietS_44, Halldule_44, Ronan_43, Blackdragon_45, LRRHood_46, Pinkcreek_40
• Track 14 : Enzomatic_42, Gorge_36, Polo2Bam_41, SeaLumen_41, Piper2020_39, Ogopogo_36, DRBy19_36, James_36, Mattes_36, Mova_37, Fastidio_39, Saal_36, DillTech15_36
• Track 15 : Peridot_39
• Track 16 : DoRead_38
• Track 17 : Florinda_37, Sparkdehlily_36, Clank_34, Beakin_37, Topiatin_39, TDanisky_36
• Track 18 : MinionDave_39, Mwanjiwa_38, Whatsapiecost_38, Batiatus_36, Violac_38, NewHope4_41, Flathead_36
• Track 19 : Byougenkin_36, Hlubikazi_38, Medindi_38, Mandlovu_37, Kingsley_36, DLane_36, Gandalph_38, XFactor_36, Soul22_42
• Track 20 : LastJedi_30, Maravista_36

• Track 21 : Chevrolet_38
• Track 22 : Alexphander_39, Tchotchke_36, DaWorst_38
• Track 23 : Enby_39, Lorde_39, EleanorGeorge_38
• Track 24 : Filuzino_36, Madiba_35, Latretium_37, Blexus_36
• Track 25 : EmiMonkey_37, Hamulus_37, Mantra_36
• Track 26 : Nichirin_37, Llama_37, Seabastian_37, Ochi17_35, OfUltron_37, Juniper1_36, Rita_38, Jinglebell_36, Oksu_37, AlpineSix_37
• Track 27 : JalFarm20_40
• Track 28 : Hades_38, Doug_37
• Track 29 : Rockne_36, Phatniss_37, UncleRicky_39
• Track 30 : Fancypants_36
• Track 31 : KristaRAM_38
• Track 32 : Tweety_36, Bubbles123_38, RedBird_36, Aubs_37, MadMen_34
• Track 33 : Estave1_34, SG4_38
• Track 34 : Awesomesauce_38, TootsiePop_38, Misha28_38, DocMcStuffins_39
• Track 35 : Mahavrat_36
• Track 36 : Galactic_39
• Track 37 : Jant_38
• Track 38 : Aloeri_39, ChickenDinner_39
• Track 39 : Whouxphf_38
• Track 40 : Seagreen_37
• Track 41 : Phasih_37
• Track 42 : IMpilo_36
• Track 43 : Ramsey_39
• Track 44 : Harley_37
• Track 45 : Marker_37
• Track 46 : DosHalletts_38
• Track 47 : DeadP_37
• Track 48 : Kenuha5_33
• Track 49 : Renaud18_37
• Track 50 : MulchSalad_33
• Track 51 : Okabe_37
• Track 52 : Aminay_38

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

The start number called the most often in the published annotations is 10, it was called in 113 of the 177 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_30, Alexphander_39, Alice_43, AlpineSix_37, Aminay_38, Aubs_37, Awesomesauce_38, Beanstalk_39, Bipolar_34, Blackdragon_45, Blexus_36, BobaPhett_36, Bubbles123_38, Burwell21_36, Byougenkin_36, Cabrinians_36, CaptainTrips_37, Chevrolet_38, Chuckly_37, Coco12_36, Crumble_30, DLane_36, DRBy19_36, DaWorst_38, DeadP_37, DillTech15_36, DoRead_38, DocMcStuffins_39, Donkeykong_37, DosHalletts_38, EasyJones_50, Eish_37, EleanorGeorge_38, Emma_39, Enby_39, Enzomatic_42, Fastidio_39, Filuzino_36, FreddyB_37, Galactic_39, Gandalph_38, Gorge_36, Grungle_41, Halldule_44, Hegedechwinu_38, Hlubikazi_38, IbOuu_38, James_36, Jarcob_36, Jennelsea_31, Jinglebell_36, Juice456_39, JulietS_44, Juniper1_36, Kenuha5_33, Kingsley_36,

Koella_30, Koguma_45, KristaRAM_38, LRRHood_46, Latretium_37, LilMoolah_36, Llama_37, Lorde_39, Lukilu_43, MadMen_34, Madiba_35, Mahavrat_36, Mandlovu_37, Marker_37, Mattes_36, Medindi_38, MilanaBonita_30, MilleniumForce_38, Misha28_38, Moonbeam_37, Mova_37, MulchSalad_33, Nichirin_37, Nivrat_36, NormanBulbieJr_37, Ochi17_35, OfUltron_37, Ogopogo_36, Oksu_37, Peridot_39, Phanphagia_33, Phasih_37, Phox_47, Pinkcreek_40, Piper2020_39, Pippy_30, Polo2Bam_41, PopTart_36, Priscilla_36, Pupusa_55, Rabinovish_47, Radiance_37, RedBird_36, Renaud18_37, Rialto_41, Rita_38, Ronan_43, Saal_36, Sandalphon_37, Sassafras_37, SassyB_36, SeaLumen_41, Seabastian_37, ShiLan_36, ShowerHandel_37, SilverChicken_44, Soul22_42, SuperGrey_38, SwagPigglett_37, Tchotchke_36, TootsiePop_38, Tweety_36, Whouxphf_38, XFactor_36, Zizzle_36,

Genes that have the "Most Annotated" start but do not call it:
• Aloeri_39, Ardmore_35, Astraea_50, Batiatus_36, Beakin_37, Bezza_44, Blarby_46, Bobi_38, BodEinwohner17_36, Brookers_35, Brushbloom_38, ChickenDinner_39, Clank_34, Corium_36, DirtMcgirt_37, Doomphist_37, Doomslug_40, Doug_37, Drago_38, EmiMonkey_37, Estave1_34, Fancypants_36, Flathead_36, Florinda_37, Fruitloop_35, Grimmer_38, Hades_38, Hamulus_37, Harley_37, IMpilo_36, IrishSherpFalk_39, JalFarm20_40, Jant_38, KingJulian_37, LastJedi_30, Lizziana_36, LunaBlu_40, Mantra_36, Maravista_36, Martik_37, Melissauren88_36, MinionDave_39, Morizzled23_51, Ms6_31, MulchExplorer_38, Mwanjiwa_38, NewHope4_41, Okabe_37, PatoPoderoso_36, Phalconet_37, Phatniss_37, PhesterPhotato_37, Philus_36, Poenanya_37, Pollywog_36, Ramsey_39, Rockne_36, SG4_38, Seagreen_37, Shaqnato_44, Shauna1_34, Sparkdehlily_36, Spartacus_39, Spikelee_38, StAnnes_36, Strokeseat_38, Stubby_44, TDanisky_36, Tootsieroll_38, Topiatin_39, UncleRicky_39, Violac_38, Wachhund_36, Whatsapiecost_38, WillSterrel_39, Yassified_47, Yorick_36,

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

Summary by start number:

Start 8:
• Found in 63 of 198 (31.8%) of genes in pham
• Manual Annotations of this start: 5 of 177
• Called 7.9% of time when present
• Phage (with cluster) where this start called: LastJedi_30 (F1), Maravista_36 (F1), Phatniss_37 (F1), Rockne_36 (F1), UncleRicky_39 (F1),

Start 9:
• Found in 63 of 198 (31.8%) of genes in pham
• Manual Annotations of this start: 20 of 177
• Called 36.5% of time when present
• Phage (with cluster) where this start called: Beakin_37 (F1), BodEinwohner17_36 (F1), Clank_34 (F), DirtMcgirt_37 (F1), Doug_37 (F1), Drago_38 (F1), EmiMonkey_37 (F1), Fancypants_36 (F1), Florinda_37 (F1), Grimmer_38 (F1), Hades_38 (F1), Hamulus_37 (F1), Harley_37 (F1), Mantra_36 (F1), MulchExplorer_38 (F1), Pollywog_36 (F1), Ramsey_39 (F1), Seagreen_37 (F1), Sparkdehlily_36 (F1), Spikelee_38 (F1), TDanisky_36 (F1), Topiatin_39 (F1), Yorick_36 (F1),

Start 10:

• Found in 198 of 198 (100.0%) of genes in pham
• Manual Annotations of this start: 113 of 177
• Called 61.1% of time when present
• Phage (with cluster) where this start called: Akhila_30 (F1), Alexphander_39 (F1), Alice_43 (C1), AlpineSix_37 (F1), Aminay_38 (K7), Aubs_37 (F1), Awesomesauce_38 (F1), Beanstalk_39 (F1), Bipolar_34 (F1), Blackdragon_45 (C1), Blexus_36 (F1), BobaPhett_36 (F1), Bubbles123_38 (F1), Burwell21_36 (F1), Byougenkin_36 (F1), Cabrinians_36 (F1), CaptainTrips_37 (F1), Chevrolet_38 (F1), Chuckly_37 (F1), Coco12_36 (F1), Crumble_30 (F1), DLane_36 (F1), DRBy19_36 (F1), DaWorst_38 (F1), DeadP_37 (F1), DillTech15_36 (F1), DoRead_38 (F1), DocMcStuffins_39 (F1), Donkeykong_37 (F1), DosHalletts_38 (F1), EasyJones_50 (C1), Eish_37 (F1), EleanorGeorge_38 (F1), Emma_39 (F1), Enby_39 (F1), Enzomatic_42 (F1), Fastidio_39 (F1), Filuzino_36 (F1), FreddyB_37 (F1), Galactic_39 (F1), Gandalph_38 (F1), Gorge_36 (F1), Grungle_41 (C1), Halldule_44 (C1), Hegedechwinu_38 (F1), Hlubikazi_38 (F1), IbOuu_38 (F1), James_36 (F1), Jarcob_36 (F1), Jennelsea_31 (F1), Jinglebell_36 (F1), Juice456_39 (F1), JulietS_44 (C1), Juniper1_36 (F1), Kenuha5_33 (F1), Kingsley_36 (F1), Koella_30 (F1), Koguma_45 (C1), KristaRAM_38 (F1), LRRHood_46 (C1), Latretium_37 (F1), LilMoolah_36 (F1), Llama_37 (F1), Lorde_39 (F1), Lukilu_43 (C1), MadMen_34 (F1), Madiba_35 (F1), Mahavrat_36 (F1), Mandlovu_37 (F1), Marker_37 (F1), Mattes_36 (F1), Medindi_38 (F1), MilanaBonita_30 (F1), MilleniumForce_38 (F1), Misha28_38 (F1), Moonbeam_37 (F1), Mova_37 (F1), MulchSalad_33 (F7), Nichirin_37 (F1), Nivrat_36 (F1), NormanBulbieJr_37 (F1), Ochi17_35 (F1), OfUltron_37 (F1), Ogopogo_36 (F1), Oksu_37 (F1), Peridot_39 (F1), Phanphagia_33 (F1), Phasih_37 (F1), Phox_47 (C1), Pinkcreek_40 (C1), Piper2020_39 (F1), Pippy_30 (F1), Polo2Bam_41 (F1), PopTart_36 (F1), Priscilla_36 (F1), Pupusa_55 (C1), Rabinovish_47 (C1), Radiance_37 (F1), RedBird_36 (F1), Renaud18_37 (F4), Rialto_41 (F1), Rita_38 (F1), Ronan_43 (C1), Saal_36 (F1), Sandalphon_37 (F1), Sassafras_37 (F1), SassyB_36 (F1), SeaLumen_41 (F1), Seabastian_37 (F1), ShiLan_36 (F1), ShowerHandel_37 (F1), SilverChicken_44 (F2), Soul22_42 (F2), SuperGrey_38 (F1), SwagPigglett_37 (F1), Tchotchke_36 (F1), TootsiePop_38 (F1), Tweety_36 (F1), Whouxphf_38 (F1), XFactor_36 (F1), Zizzle_36 (F1),

Start 11:
• Found in 134 of 198 (67.7%) of genes in pham
• Manual Annotations of this start: 39 of 177
• Called 36.6% of time when present
• Phage (with cluster) where this start called: Aloeri_39 (F1), Ardmore_35 (F1), Astraea_50 (C1), Batiatus_36 (F1), Bezza_44 (C1), Blarby_46 (F), Bobi_38 (F1), Brookers_35 (F1), Brushbloom_38 (F1), ChickenDinner_39 (F1), Corium_36 (F1), Doomphist_37 (F1), Doomslug_40 (F), Estave1_34 (F1), Flathead_36 (F1), Fruitloop_35 (F1), IMpilo_36 (F1), IrishSherpFalk_39 (F1), JalFarm20_40 (F1), Jant_38 (F1), KingJulian_37 (F1), Lizziana_36 (F1), LunaBlu_40 (F1), Martik_37 (F1), Melissauren88_36 (F1), MinionDave_39 (F1), Morizzled23_51 (C1), Ms6_31 (F1), Mwanjiwa_38 (F1), NewHope4_41 (F1), Okabe_37 (F8), PatoPoderoso_36 (F1), Phalconet_37 (F1), PhesterPhotato_37 (F1), Philus_36 (F1), Poenanya_37 (F1), SG4_38 (F1), Shaqnato_44 (C1), Shauna1_34 (F1), Spartacus_39 (F1), StAnnes_36 (F1), Strokeseat_38 (F1), Stubby_44 (C1), Tootsieroll_38 (F1), Violac_38 (F1), Wachhund_36 (F1), Whatsapiecost_38 (F1), WillSterrel_39 (F1), Yassified_47 (C1),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F2, F4, F, F8, F7, K7, C1,

Info for manual annotations of cluster C1:
•Start number 10 was manually annotated 11 times for cluster C1.
•Start number 11 was manually annotated 6 times for cluster C1.

Info for manual annotations of cluster F1:
•Start number 8 was manually annotated 5 times for cluster F1.
•Start number 9 was manually annotated 20 times for cluster F1.
•Start number 10 was manually annotated 98 times for cluster F1.
•Start number 11 was manually annotated 33 times for cluster F1.

Info for manual annotations of cluster F2:
•Start number 10 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:
•Start number 10 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster F7:
•Start number 10 was manually annotated 1 time for cluster F7.

Info for manual annotations of cluster K7:
•Start number 10 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: Akhila_30 Start: 26361, Stop: 26582, Start Num: 10
Candidate Starts for Akhila_30:
(Start: 10 @26361 has 113 MA's), (Start: 11 @26364 has 39 MA's), (14, 26403), (15, 26412), (16, 26430), (17, 26442), (18, 26445), (20, 26457), (21, 26481), (22, 26487), (24, 26502), (27, 26544), (28, 26547),

Gene: Alexphander_39 Start: 31054, Stop: 31275, Start Num: 10
Candidate Starts for Alexphander_39:
(6, 30985), (Start: 8 @31024 has 5 MA's), (Start: 9 @31042 has 20 MA's), (Start: 10 @31054 has 113 MA's), (14, 31096), (18, 31138), (20, 31150), (21, 31174), (28, 31240),

Gene: Alice_43 Start: 14907, Stop: 14686, Start Num: 10
Candidate Starts for Alice_43:
(Start: 10 @14907 has 113 MA's), (Start: 11 @14904 has 39 MA's), (14, 14865), (15, 14856), (16, 14838), (17, 14826), (18, 14823), (20, 14811), (21, 14787), (22, 14781), (24, 14766), (27, 14724), (28, 14721),

Gene: Aloeri_39 Start: 30908, Stop: 31126, Start Num: 11
Candidate Starts for Aloeri_39:
(Start: 10 @30905 has 113 MA's), (Start: 11 @30908 has 39 MA's), (15, 30956), (18, 30989), (20, 31001), (21, 31025), (22, 31031), (28, 31091),

Gene: AlpineSix_37 Start: 30499, Stop: 30720, Start Num: 10
Candidate Starts for AlpineSix_37:

(6, 30430), (Start: 8 @30469 has 5 MA's), (Start: 9 @30487 has 20 MA's), (Start: 10 @30499 has 113 MA's), (14, 30541), (18, 30583), (20, 30595), (21, 30619), (28, 30685),

Gene: Aminay_38 Start: 31323, Stop: 31559, Start Num: 10
Candidate Starts for Aminay_38:
(1, 31065), (3, 31221), (4, 31224), (5, 31227), (7, 31269), (Start: 10 @31323 has 113 MA's), (13, 31362), (17, 31404), (19, 31413), (20, 31419), (23, 31455), (25, 31464), (26, 31494), (27, 31506), (28, 31509),

Gene: Ardmore_35 Start: 30281, Stop: 30496, Start Num: 11
Candidate Starts for Ardmore_35:
(Start: 10 @30278 has 113 MA's), (Start: 11 @30281 has 39 MA's), (14, 30317), (15, 30326), (16, 30344), (17, 30356), (18, 30359), (20, 30371), (21, 30395), (24, 30416), (27, 30458), (28, 30461),

Gene: Astraea_50 Start: 16300, Stop: 16082, Start Num: 11
Candidate Starts for Astraea_50:
(Start: 10 @16303 has 113 MA's), (Start: 11 @16300 has 39 MA's), (14, 16261), (15, 16252), (16, 16234), (17, 16222), (18, 16219), (20, 16207), (21, 16183), (22, 16177), (24, 16162), (27, 16120), (28, 16117),

Gene: Aubs_37 Start: 30615, Stop: 30836, Start Num: 10
Candidate Starts for Aubs_37:
(5, 30525), (6, 30546), (Start: 8 @30585 has 5 MA's), (Start: 9 @30603 has 20 MA's), (Start: 10 @30615 has 113 MA's), (14, 30657), (17, 30696), (21, 30735), (22, 30741), (24, 30756), (27, 30798), (28, 30801),

Gene: Awesomesauce_38 Start: 30167, Stop: 30388, Start Num: 10
Candidate Starts for Awesomesauce_38:
(Start: 10 @30167 has 113 MA's), (Start: 11 @30170 has 39 MA's), (15, 30218), (18, 30251), (20, 30263), (21, 30287), (22, 30293), (28, 30353),

Gene: Batiatus_36 Start: 30274, Stop: 30489, Start Num: 11
Candidate Starts for Batiatus_36:
(Start: 10 @30271 has 113 MA's), (Start: 11 @30274 has 39 MA's), (14, 30310), (15, 30319), (16, 30337), (17, 30349), (18, 30352), (20, 30364), (21, 30388), (22, 30394), (24, 30409), (27, 30451), (28, 30454),

Gene: Beakin_37 Start: 30174, Stop: 30407, Start Num: 9
Candidate Starts for Beakin_37:
(6, 30117), (Start: 8 @30156 has 5 MA's), (Start: 9 @30174 has 20 MA's), (Start: 10 @30186 has 113 MA's), (14, 30228), (18, 30270), (20, 30282), (21, 30306), (28, 30372),

Gene: Beanstalk_39 Start: 30476, Stop: 30697, Start Num: 10
Candidate Starts for Beanstalk_39:
(Start: 10 @30476 has 113 MA's), (Start: 11 @30479 has 39 MA's), (15, 30527), (16, 30545), (17, 30557), (18, 30560), (20, 30572), (21, 30596), (24, 30617), (27, 30659), (28, 30662),

Gene: Bezza_44 Start: 15415, Stop: 15197, Start Num: 11
Candidate Starts for Bezza_44:
(Start: 10 @15418 has 113 MA's), (Start: 11 @15415 has 39 MA's), (14, 15376), (15, 15367), (16, 15349), (17, 15337), (18, 15334), (20, 15322), (21, 15298), (22, 15292), (24, 15277), (27, 15235), (28, 15232),

Gene: Bipolar_34 Start: 29357, Stop: 29578, Start Num: 10
Candidate Starts for Bipolar_34:
(Start: 10 @29357 has 113 MA's), (Start: 11 @29360 has 39 MA's), (14, 29399), (15, 29408), (16, 29426), (17, 29438), (18, 29441), (20, 29453), (21, 29477), (22, 29483), (24, 29498), (27, 29540), (28, 29543),

Gene: Blackdragon_45 Start: 15234, Stop: 15013, Start Num: 10
Candidate Starts for Blackdragon_45:
(Start: 10 @15234 has 113 MA's), (Start: 11 @15231 has 39 MA's), (14, 15192), (15, 15183), (16, 15165), (17, 15153), (18, 15150), (20, 15138), (21, 15114), (22, 15108), (24, 15093), (27, 15051), (28, 15048),

Gene: Blarby_46 Start: 30753, Stop: 30971, Start Num: 11
Candidate Starts for Blarby_46:
(Start: 10 @30750 has 113 MA's), (Start: 11 @30753 has 39 MA's), (15, 30801), (16, 30819), (17, 30831), (18, 30834), (20, 30846), (21, 30870), (22, 30876), (24, 30891), (27, 30933), (28, 30936),

Gene: Blexus_36 Start: 30607, Stop: 30828, Start Num: 10
Candidate Starts for Blexus_36:
(6, 30538), (Start: 8 @30577 has 5 MA's), (Start: 9 @30595 has 20 MA's), (Start: 10 @30607 has 113 MA's), (14, 30649), (17, 30688), (21, 30727), (22, 30733), (24, 30748), (27, 30790), (28, 30793),

Gene: BobaPhett_36 Start: 30477, Stop: 30698, Start Num: 10
Candidate Starts for BobaPhett_36:
(Start: 10 @30477 has 113 MA's), (Start: 11 @30480 has 39 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (24, 30618), (27, 30660), (28, 30663),

Gene: Bobi_38 Start: 30987, Stop: 31202, Start Num: 11
Candidate Starts for Bobi_38:
(Start: 10 @30984 has 113 MA's), (Start: 11 @30987 has 39 MA's), (14, 31023), (15, 31032), (16, 31050), (17, 31062), (18, 31065), (20, 31077), (21, 31101), (22, 31107), (24, 31122), (27, 31164), (28, 31167),

Gene: BodEinwohner17_36 Start: 30665, Stop: 30898, Start Num: 9
Candidate Starts for BodEinwohner17_36:
(6, 30608), (Start: 8 @30647 has 5 MA's), (Start: 9 @30665 has 20 MA's), (Start: 10 @30677 has 113 MA's), (14, 30719), (17, 30758), (21, 30797), (22, 30803), (24, 30818), (27, 30860), (28, 30863),

Gene: Brookers_35 Start: 29223, Stop: 29441, Start Num: 11
Candidate Starts for Brookers_35:
(Start: 10 @29220 has 113 MA's), (Start: 11 @29223 has 39 MA's), (14, 29262), (15, 29271), (16, 29289), (17, 29301), (18, 29304), (20, 29316), (21, 29340), (22, 29346), (24, 29361), (27, 29403), (28, 29406),

Gene: Brushbloom_38 Start: 30298, Stop: 30516, Start Num: 11
Candidate Starts for Brushbloom_38:
(Start: 10 @30295 has 113 MA's), (Start: 11 @30298 has 39 MA's), (15, 30346), (16, 30364), (17, 30376), (18, 30379), (20, 30391), (21, 30415), (22, 30421), (24, 30436), (27, 30478), (28, 30481),

Gene: Bubbles123_38 Start: 31264, Stop: 31485, Start Num: 10
Candidate Starts for Bubbles123_38:
(5, 31174), (6, 31195), (Start: 8 @31234 has 5 MA's), (Start: 9 @31252 has 20 MA's), (Start: 10 @31264 has 113 MA's), (14, 31306), (17, 31345), (21, 31384), (22, 31390), (24, 31405), (27, 31447),

(28, 31450),

Gene: Burwell21_36 Start: 30460, Stop: 30681, Start Num: 10
Candidate Starts for Burwell21_36:
(Start: 10 @30460 has 113 MA's), (Start: 11 @30463 has 39 MA's), (15, 30511), (16, 30529), (17, 30541), (18, 30544), (20, 30556), (21, 30580), (24, 30601), (27, 30643), (28, 30646),

Gene: Byougenkin_36 Start: 30359, Stop: 30580, Start Num: 10
Candidate Starts for Byougenkin_36:
(Start: 10 @30359 has 113 MA's), (Start: 11 @30362 has 39 MA's), (15, 30410), (16, 30428), (17, 30440), (18, 30443), (20, 30455), (21, 30479), (22, 30485), (24, 30500), (27, 30542), (28, 30545),

Gene: Cabrinians_36 Start: 30538, Stop: 30759, Start Num: 10
Candidate Starts for Cabrinians_36:
(Start: 10 @30538 has 113 MA's), (Start: 11 @30541 has 39 MA's), (15, 30589), (16, 30607), (17, 30619), (18, 30622), (20, 30634), (21, 30658), (24, 30679), (27, 30721), (28, 30724),

Gene: CaptainTrips_37 Start: 30684, Stop: 30902, Start Num: 10
Candidate Starts for CaptainTrips_37:
(Start: 10 @30684 has 113 MA's), (Start: 11 @30687 has 39 MA's), (14, 30723), (15, 30732), (16, 30750), (17, 30762), (18, 30765), (20, 30777), (21, 30801), (22, 30807), (24, 30822), (27, 30864), (28, 30867),

Gene: Chevrolet_38 Start: 30835, Stop: 31056, Start Num: 10
Candidate Starts for Chevrolet_38:
(6, 30766), (Start: 8 @30805 has 5 MA's), (Start: 9 @30823 has 20 MA's), (Start: 10 @30835 has 113 MA's), (14, 30877), (17, 30916), (21, 30955), (28, 31021),

Gene: ChickenDinner_39 Start: 30908, Stop: 31126, Start Num: 11
Candidate Starts for ChickenDinner_39:
(Start: 10 @30905 has 113 MA's), (Start: 11 @30908 has 39 MA's), (15, 30956), (18, 30989), (20, 31001), (21, 31025), (22, 31031), (28, 31091),

Gene: Chuckly_37 Start: 30459, Stop: 30680, Start Num: 10
Candidate Starts for Chuckly_37:
(Start: 10 @30459 has 113 MA's), (Start: 11 @30462 has 39 MA's), (14, 30501), (15, 30510), (16, 30528), (17, 30540), (18, 30543), (20, 30555), (21, 30579), (22, 30585), (24, 30600), (27, 30642), (28, 30645),

Gene: Clank_34 Start: 29705, Stop: 29938, Start Num: 9
Candidate Starts for Clank_34:
(6, 29648), (Start: 8 @29687 has 5 MA's), (Start: 9 @29705 has 20 MA's), (Start: 10 @29717 has 113 MA's), (14, 29759), (18, 29801), (20, 29813), (21, 29837), (28, 29903),

Gene: Coco12_36 Start: 30344, Stop: 30565, Start Num: 10
Candidate Starts for Coco12_36:
(Start: 10 @30344 has 113 MA's), (Start: 11 @30347 has 39 MA's), (14, 30386), (15, 30395), (16, 30413), (17, 30425), (18, 30428), (20, 30440), (21, 30464), (22, 30470), (24, 30485), (27, 30527), (28, 30530),

Gene: Corium_36 Start: 30487, Stop: 30705, Start Num: 11
Candidate Starts for Corium_36:

(Start: 10 @30484 has 113 MA's), (Start: 11 @30487 has 39 MA's), (14, 30526), (15, 30535), (16, 30553), (17, 30565), (18, 30568), (20, 30580), (21, 30604), (22, 30610), (24, 30625), (27, 30667), (28, 30670),

Gene: Crumble_30 Start: 26474, Stop: 26695, Start Num: 10
Candidate Starts for Crumble_30:
(Start: 10 @26474 has 113 MA's), (Start: 11 @26477 has 39 MA's), (15, 26525), (16, 26543), (17, 26555), (18, 26558), (20, 26570), (21, 26594), (24, 26615), (27, 26657), (28, 26660),

Gene: DLane_36 Start: 30248, Stop: 30469, Start Num: 10
Candidate Starts for DLane_36:
(Start: 10 @30248 has 113 MA's), (Start: 11 @30251 has 39 MA's), (15, 30299), (16, 30317), (17, 30329), (18, 30332), (20, 30344), (21, 30368), (22, 30374), (24, 30389), (27, 30431), (28, 30434),

Gene: DRBy19_36 Start: 30386, Stop: 30607, Start Num: 10
Candidate Starts for DRBy19_36:
(Start: 10 @30386 has 113 MA's), (Start: 11 @30389 has 39 MA's), (15, 30437), (16, 30455), (17, 30467), (18, 30470), (20, 30482), (21, 30506), (22, 30512), (24, 30527), (27, 30569), (28, 30572),

Gene: DaWorst_38 Start: 30828, Stop: 31049, Start Num: 10
Candidate Starts for DaWorst_38:
(6, 30759), (Start: 8 @30798 has 5 MA's), (Start: 9 @30816 has 20 MA's), (Start: 10 @30828 has 113 MA's), (14, 30870), (18, 30912), (20, 30924), (21, 30948), (28, 31014),

Gene: DeadP_37 Start: 30447, Stop: 30668, Start Num: 10
Candidate Starts for DeadP_37:
(5, 30357), (6, 30378), (Start: 8 @30417 has 5 MA's), (Start: 9 @30435 has 20 MA's), (Start: 10 @30447 has 113 MA's), (14, 30489), (17, 30528), (18, 30531), (21, 30567), (24, 30588), (27, 30630), (28, 30633),

Gene: DillTech15_36 Start: 30376, Stop: 30594, Start Num: 10
Candidate Starts for DillTech15_36:
(Start: 10 @30376 has 113 MA's), (Start: 11 @30379 has 39 MA's), (15, 30424), (16, 30442), (17, 30454), (18, 30457), (20, 30469), (21, 30493), (22, 30499), (24, 30514), (27, 30556), (28, 30559),

Gene: DirtMcgirt_37 Start: 30102, Stop: 30335, Start Num: 9
Candidate Starts for DirtMcgirt_37:
(6, 30045), (Start: 8 @30084 has 5 MA's), (Start: 9 @30102 has 20 MA's), (Start: 10 @30114 has 113 MA's), (14, 30156), (17, 30195), (21, 30234), (22, 30240), (24, 30255), (27, 30297), (28, 30300),

Gene: DoRead_38 Start: 30522, Stop: 30743, Start Num: 10
Candidate Starts for DoRead_38:
(6, 30453), (Start: 8 @30492 has 5 MA's), (Start: 9 @30510 has 20 MA's), (Start: 10 @30522 has 113 MA's), (14, 30564), (18, 30606), (20, 30618), (21, 30642), (24, 30663), (28, 30708),

Gene: DocMcStuffins_39 Start: 30905, Stop: 31126, Start Num: 10
Candidate Starts for DocMcStuffins_39:
(Start: 10 @30905 has 113 MA's), (Start: 11 @30908 has 39 MA's), (15, 30956), (18, 30989), (20, 31001), (21, 31025), (22, 31031), (28, 31091),

Gene: Donkeykong_37 Start: 30472, Stop: 30693, Start Num: 10
Candidate Starts for Donkeykong_37:

(Start: 10 @30472 has 113 MA's), (Start: 11 @30475 has 39 MA's), (14, 30514), (15, 30523), (16, 30541), (17, 30553), (18, 30556), (20, 30568), (21, 30592), (22, 30598), (24, 30613), (27, 30655), (28, 30658),

Gene: Doomphist_37 Start: 30411, Stop: 30629, Start Num: 11
Candidate Starts for Doomphist_37:
(Start: 10 @30408 has 113 MA's), (Start: 11 @30411 has 39 MA's), (15, 30459), (16, 30477), (17, 30489), (18, 30492), (20, 30504), (21, 30528), (24, 30549), (27, 30591), (28, 30594),

Gene: Doomslug_40 Start: 30122, Stop: 30340, Start Num: 11
Candidate Starts for Doomslug_40:
(Start: 10 @30119 has 113 MA's), (Start: 11 @30122 has 39 MA's), (14, 30161), (15, 30170), (16, 30188), (17, 30200), (18, 30203), (20, 30215), (21, 30239), (24, 30260), (27, 30302), (28, 30305),

Gene: DosHalletts_38 Start: 30672, Stop: 30890, Start Num: 10
Candidate Starts for DosHalletts_38:
(Start: 10 @30672 has 113 MA's), (Start: 11 @30675 has 39 MA's), (14, 30711), (15, 30720), (16, 30738), (17, 30750), (18, 30753), (21, 30789), (24, 30810), (27, 30852), (28, 30855),

Gene: Doug_37 Start: 30840, Stop: 31073, Start Num: 9
Candidate Starts for Doug_37:
(6, 30783), (Start: 8 @30822 has 5 MA's), (Start: 9 @30840 has 20 MA's), (Start: 10 @30852 has 113 MA's), (14, 30894), (18, 30936), (20, 30948), (21, 30972), (28, 31038),

Gene: Drago_38 Start: 30095, Stop: 30328, Start Num: 9
Candidate Starts for Drago_38:
(6, 30038), (Start: 8 @30077 has 5 MA's), (Start: 9 @30095 has 20 MA's), (Start: 10 @30107 has 113 MA's), (14, 30149), (17, 30188), (21, 30227), (22, 30233), (24, 30248), (27, 30290), (28, 30293),

Gene: EasyJones_50 Start: 15986, Stop: 15765, Start Num: 10
Candidate Starts for EasyJones_50:
(Start: 10 @15986 has 113 MA's), (Start: 11 @15983 has 39 MA's), (14, 15944), (15, 15935), (16, 15917), (17, 15905), (18, 15902), (20, 15890), (21, 15866), (22, 15860), (24, 15845), (27, 15803), (28, 15800),

Gene: Eish_37 Start: 30996, Stop: 31217, Start Num: 10
Candidate Starts for Eish_37:
(6, 30927), (Start: 8 @30966 has 5 MA's), (Start: 9 @30984 has 20 MA's), (Start: 10 @30996 has 113 MA's), (14, 31038), (17, 31077), (21, 31116), (22, 31122), (28, 31182),

Gene: EleanorGeorge_38 Start: 31025, Stop: 31246, Start Num: 10
Candidate Starts for EleanorGeorge_38:
(Start: 10 @31025 has 113 MA's), (Start: 11 @31028 has 39 MA's), (12, 31043), (15, 31076), (16, 31094), (17, 31106), (18, 31109), (20, 31121), (21, 31145), (22, 31151), (24, 31166), (27, 31208), (28, 31211),

Gene: EmiMonkey_37 Start: 31891, Stop: 32124, Start Num: 9
Candidate Starts for EmiMonkey_37:
(5, 31813), (6, 31834), (Start: 8 @31873 has 5 MA's), (Start: 9 @31891 has 20 MA's), (Start: 10 @31903 has 113 MA's), (18, 31987), (20, 31999), (21, 32023), (22, 32029), (28, 32089),

Gene: Emma_39 Start: 30889, Stop: 31110, Start Num: 10
Candidate Starts for Emma_39:

(Start: 10 @30889 has 113 MA's), (Start: 11 @30892 has 39 MA's), (14, 30931), (15, 30940), (16, 30958), (17, 30970), (18, 30973), (20, 30985), (21, 31009), (22, 31015), (24, 31030), (27, 31072), (28, 31075),

Gene: Enby_39 Start: 30554, Stop: 30775, Start Num: 10
Candidate Starts for Enby_39:
(Start: 10 @30554 has 113 MA's), (Start: 11 @30557 has 39 MA's), (12, 30572), (15, 30605), (16, 30623), (17, 30635), (18, 30638), (20, 30650), (21, 30674), (22, 30680), (24, 30695), (27, 30737), (28, 30740),

Gene: Enzomatic_42 Start: 30467, Stop: 30685, Start Num: 10
Candidate Starts for Enzomatic_42:
(Start: 10 @30467 has 113 MA's), (Start: 11 @30470 has 39 MA's), (15, 30515), (16, 30533), (17, 30545), (18, 30548), (20, 30560), (21, 30584), (22, 30590), (24, 30605), (27, 30647), (28, 30650),

Gene: Estave1_34 Start: 29814, Stop: 30032, Start Num: 11
Candidate Starts for Estave1_34:
(Start: 10 @29811 has 113 MA's), (Start: 11 @29814 has 39 MA's), (12, 29829), (15, 29862), (16, 29880), (17, 29892), (18, 29895), (20, 29907), (21, 29931), (22, 29937), (24, 29952), (27, 29994), (28, 29997),

Gene: Fancypants_36 Start: 30285, Stop: 30518, Start Num: 9
Candidate Starts for Fancypants_36:
(6, 30228), (Start: 8 @30267 has 5 MA's), (Start: 9 @30285 has 20 MA's), (Start: 10 @30297 has 113 MA's), (14, 30339), (17, 30378), (20, 30393), (21, 30417), (22, 30423), (27, 30480), (28, 30483),

Gene: Fastidio_39 Start: 30605, Stop: 30823, Start Num: 10
Candidate Starts for Fastidio_39:
(Start: 10 @30605 has 113 MA's), (Start: 11 @30608 has 39 MA's), (15, 30653), (16, 30671), (17, 30683), (18, 30686), (20, 30698), (21, 30722), (22, 30728), (24, 30743), (27, 30785), (28, 30788),

Gene: Filuzino_36 Start: 30240, Stop: 30461, Start Num: 10
Candidate Starts for Filuzino_36:
(6, 30171), (Start: 8 @30210 has 5 MA's), (Start: 9 @30228 has 20 MA's), (Start: 10 @30240 has 113 MA's), (14, 30282), (17, 30321), (21, 30360), (22, 30366), (24, 30381), (27, 30423), (28, 30426),

Gene: Flathead_36 Start: 30889, Stop: 31104, Start Num: 11
Candidate Starts for Flathead_36:
(Start: 10 @30886 has 113 MA's), (Start: 11 @30889 has 39 MA's), (14, 30925), (15, 30934), (16, 30952), (17, 30964), (18, 30967), (20, 30979), (21, 31003), (22, 31009), (24, 31024), (27, 31066), (28, 31069),

Gene: Florinda_37 Start: 30277, Stop: 30510, Start Num: 9
Candidate Starts for Florinda_37:
(6, 30220), (Start: 8 @30259 has 5 MA's), (Start: 9 @30277 has 20 MA's), (Start: 10 @30289 has 113 MA's), (14, 30331), (18, 30373), (20, 30385), (21, 30409), (28, 30475),

Gene: FreddyB_37 Start: 30554, Stop: 30775, Start Num: 10
Candidate Starts for FreddyB_37:
(6, 30485), (Start: 8 @30524 has 5 MA's), (Start: 9 @30542 has 20 MA's), (Start: 10 @30554 has 113 MA's), (14, 30596), (18, 30638), (20, 30650), (21, 30674), (22, 30680), (28, 30740),

Gene: Fruitloop_35 Start: 30437, Stop: 30652, Start Num: 11

Candidate Starts for Fruitloop_35:
(Start: 10 @30434 has 113 MA's), (Start: 11 @30437 has 39 MA's), (15, 30482), (16, 30500), (17, 30512), (18, 30515), (20, 30527), (21, 30551), (22, 30557), (24, 30572), (27, 30614), (28, 30617),

Gene: Galactic_39 Start: 31126, Stop: 31332, Start Num: 10
Candidate Starts for Galactic_39:
(Start: 10 @31126 has 113 MA's), (Start: 11 @31129 has 39 MA's), (15, 31177), (16, 31195), (17, 31207), (18, 31210), (20, 31222), (29, 31324),

Gene: Gandalph_38 Start: 30624, Stop: 30845, Start Num: 10
Candidate Starts for Gandalph_38:
(Start: 10 @30624 has 113 MA's), (Start: 11 @30627 has 39 MA's), (15, 30675), (16, 30693), (17, 30705), (18, 30708), (20, 30720), (21, 30744), (22, 30750), (24, 30765), (27, 30807), (28, 30810),

Gene: Gorge_36 Start: 30520, Stop: 30741, Start Num: 10
Candidate Starts for Gorge_36:
(Start: 10 @30520 has 113 MA's), (Start: 11 @30523 has 39 MA's), (15, 30571), (16, 30589), (17, 30601), (18, 30604), (20, 30616), (21, 30640), (22, 30646), (24, 30661), (27, 30703), (28, 30706),

Gene: Grimmer_38 Start: 30999, Stop: 31232, Start Num: 9
Candidate Starts for Grimmer_38:
(6, 30942), (Start: 8 @30981 has 5 MA's), (Start: 9 @30999 has 20 MA's), (Start: 10 @31011 has 113 MA's), (14, 31053), (17, 31092), (21, 31131), (22, 31137), (24, 31152), (27, 31194), (28, 31197),

Gene: Grungle_41 Start: 13722, Stop: 13501, Start Num: 10
Candidate Starts for Grungle_41:
(Start: 10 @13722 has 113 MA's), (Start: 11 @13719 has 39 MA's), (14, 13680), (15, 13671), (16, 13653), (17, 13641), (18, 13638), (20, 13626), (21, 13602), (22, 13596), (24, 13581), (27, 13539), (28, 13536),

Gene: Hades_38 Start: 30608, Stop: 30841, Start Num: 9
Candidate Starts for Hades_38:
(6, 30551), (Start: 8 @30590 has 5 MA's), (Start: 9 @30608 has 20 MA's), (Start: 10 @30620 has 113 MA's), (14, 30662), (18, 30704), (20, 30716), (21, 30740), (28, 30806),

Gene: Halldule_44 Start: 14174, Stop: 13953, Start Num: 10
Candidate Starts for Halldule_44:
(Start: 10 @14174 has 113 MA's), (Start: 11 @14171 has 39 MA's), (14, 14132), (15, 14123), (16, 14105), (17, 14093), (18, 14090), (20, 14078), (21, 14054), (22, 14048), (24, 14033), (27, 13991), (28, 13988),

Gene: Hamulus_37 Start: 31270, Stop: 31503, Start Num: 9
Candidate Starts for Hamulus_37:
(5, 31192), (6, 31213), (Start: 8 @31252 has 5 MA's), (Start: 9 @31270 has 20 MA's), (Start: 10 @31282 has 113 MA's), (18, 31366), (20, 31378), (21, 31402), (22, 31408), (28, 31468),

Gene: Harley_37 Start: 30214, Stop: 30447, Start Num: 9
Candidate Starts for Harley_37:
(6, 30157), (Start: 8 @30196 has 5 MA's), (Start: 9 @30214 has 20 MA's), (Start: 10 @30226 has 113 MA's), (14, 30268), (18, 30310), (20, 30322), (21, 30346), (22, 30352), (28, 30412),

Gene: Hegedechwinu_38 Start: 30315, Stop: 30533, Start Num: 10
Candidate Starts for Hegedechwinu_38:

(Start: 10 @30315 has 113 MA's), (Start: 11 @30318 has 39 MA's), (14, 30354), (15, 30363), (16, 30381), (17, 30393), (18, 30396), (20, 30408), (21, 30432), (22, 30438), (24, 30453), (27, 30495), (28, 30498),

Gene: Hlubikazi_38 Start: 31112, Stop: 31330, Start Num: 10
Candidate Starts for Hlubikazi_38:
(Start: 10 @31112 has 113 MA's), (Start: 11 @31115 has 39 MA's), (15, 31160), (16, 31178), (17, 31190), (18, 31193), (20, 31205), (21, 31229), (22, 31235), (24, 31250), (27, 31292), (28, 31295),

Gene: IMpilo_36 Start: 30096, Stop: 30314, Start Num: 11
Candidate Starts for IMpilo_36:
(Start: 10 @30093 has 113 MA's), (Start: 11 @30096 has 39 MA's), (15, 30144), (16, 30162), (17, 30174), (18, 30177), (21, 30213), (22, 30219), (24, 30234), (27, 30276), (28, 30279),

Gene: IbOuu_38 Start: 30865, Stop: 31086, Start Num: 10
Candidate Starts for IbOuu_38:
(Start: 10 @30865 has 113 MA's), (Start: 11 @30868 has 39 MA's), (14, 30907), (15, 30916), (16, 30934), (17, 30946), (18, 30949), (20, 30961), (21, 30985), (22, 30991), (24, 31006), (27, 31048), (28, 31051),

Gene: IrishSherpFalk_39 Start: 31884, Stop: 32102, Start Num: 11
Candidate Starts for IrishSherpFalk_39:
(Start: 10 @31881 has 113 MA's), (Start: 11 @31884 has 39 MA's), (12, 31899), (15, 31932), (16, 31950), (17, 31962), (18, 31965), (21, 32001), (24, 32022), (27, 32064), (28, 32067),

Gene: JalFarm20_40 Start: 31369, Stop: 31587, Start Num: 11
Candidate Starts for JalFarm20_40:
(Start: 10 @31366 has 113 MA's), (Start: 11 @31369 has 39 MA's), (12, 31384), (15, 31417), (16, 31435), (17, 31447), (18, 31450), (20, 31462), (21, 31486), (24, 31507), (27, 31549), (28, 31552),

Gene: James_36 Start: 30477, Stop: 30698, Start Num: 10
Candidate Starts for James_36:
(Start: 10 @30477 has 113 MA's), (Start: 11 @30480 has 39 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (22, 30603), (24, 30618), (27, 30660), (28, 30663),

Gene: Jant_38 Start: 30466, Stop: 30684, Start Num: 11
Candidate Starts for Jant_38:
(Start: 10 @30463 has 113 MA's), (Start: 11 @30466 has 39 MA's), (12, 30481), (14, 30505), (15, 30514), (16, 30532), (17, 30544), (18, 30547), (21, 30583), (24, 30604), (27, 30646), (28, 30649),

Gene: Jarcob_36 Start: 30512, Stop: 30733, Start Num: 10
Candidate Starts for Jarcob_36:
(Start: 10 @30512 has 113 MA's), (Start: 11 @30515 has 39 MA's), (15, 30563), (16, 30581), (17, 30593), (18, 30596), (20, 30608), (21, 30632), (24, 30653), (27, 30695), (28, 30698),

Gene: Jennelsea_31 Start: 26424, Stop: 26645, Start Num: 10
Candidate Starts for Jennelsea_31:
(Start: 10 @26424 has 113 MA's), (Start: 11 @26427 has 39 MA's), (15, 26475), (16, 26493), (17, 26505), (18, 26508), (20, 26520), (21, 26544), (24, 26565), (27, 26607), (28, 26610),

Gene: Jinglebell_36 Start: 30498, Stop: 30719, Start Num: 10
Candidate Starts for Jinglebell_36:

(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 20 MA's), (Start: 10 @30498 has 113 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Juice456_39 Start: 31586, Stop: 31807, Start Num: 10
Candidate Starts for Juice456_39:
(Start: 10 @31586 has 113 MA's), (Start: 11 @31589 has 39 MA's), (14, 31628), (15, 31637), (16, 31655), (17, 31667), (18, 31670), (20, 31682), (21, 31706), (22, 31712), (24, 31727), (27, 31769), (28, 31772),

Gene: JulietS_44 Start: 14025, Stop: 13804, Start Num: 10
Candidate Starts for JulietS_44:
(Start: 10 @14025 has 113 MA's), (Start: 11 @14022 has 39 MA's), (14, 13983), (15, 13974), (16, 13956), (17, 13944), (18, 13941), (20, 13929), (21, 13905), (22, 13899), (24, 13884), (27, 13842), (28, 13839),

Gene: Juniper1_36 Start: 30256, Stop: 30477, Start Num: 10
Candidate Starts for Juniper1_36:
(6, 30187), (Start: 8 @30226 has 5 MA's), (Start: 9 @30244 has 20 MA's), (Start: 10 @30256 has 113 MA's), (14, 30298), (18, 30340), (20, 30352), (21, 30376), (28, 30442),

Gene: Kenuha5_33 Start: 29400, Stop: 29621, Start Num: 10
Candidate Starts for Kenuha5_33:
(Start: 10 @29400 has 113 MA's), (Start: 11 @29403 has 39 MA's), (14, 29442), (15, 29451), (16, 29469), (17, 29481), (18, 29484), (21, 29520), (22, 29526), (24, 29541), (27, 29583), (28, 29586),

Gene: KingJulian_37 Start: 30487, Stop: 30705, Start Num: 11
Candidate Starts for KingJulian_37:
(Start: 10 @30484 has 113 MA's), (Start: 11 @30487 has 39 MA's), (14, 30526), (15, 30535), (16, 30553), (17, 30565), (18, 30568), (20, 30580), (21, 30604), (22, 30610), (24, 30625), (27, 30667), (28, 30670),

Gene: Kingsley_36 Start: 30109, Stop: 30327, Start Num: 10
Candidate Starts for Kingsley_36:
(Start: 10 @30109 has 113 MA's), (Start: 11 @30112 has 39 MA's), (15, 30157), (16, 30175), (17, 30187), (18, 30190), (20, 30202), (21, 30226), (22, 30232), (24, 30247), (27, 30289), (28, 30292),

Gene: Koella_30 Start: 26436, Stop: 26657, Start Num: 10
Candidate Starts for Koella_30:
(Start: 10 @26436 has 113 MA's), (Start: 11 @26439 has 39 MA's), (15, 26487), (16, 26505), (17, 26517), (18, 26520), (20, 26532), (21, 26556), (24, 26577), (27, 26619), (28, 26622),

Gene: Koguma_45 Start: 14368, Stop: 14147, Start Num: 10
Candidate Starts for Koguma_45:
(Start: 10 @14368 has 113 MA's), (Start: 11 @14365 has 39 MA's), (14, 14326), (15, 14317), (16, 14299), (17, 14287), (18, 14284), (20, 14272), (21, 14248), (22, 14242), (24, 14227), (27, 14185), (28, 14182),

Gene: KristaRAM_38 Start: 31109, Stop: 31330, Start Num: 10
Candidate Starts for KristaRAM_38:
(Start: 10 @31109 has 113 MA's), (Start: 11 @31112 has 39 MA's), (14, 31151), (15, 31160), (16, 31178), (17, 31190), (18, 31193), (20, 31205), (21, 31229), (24, 31250), (27, 31292), (28, 31295),

Gene: LRRHood_46 Start: 16291, Stop: 16070, Start Num: 10

Candidate Starts for LRRHood_46:
(Start: 10 @16291 has 113 MA's), (Start: 11 @16288 has 39 MA's), (14, 16249), (15, 16240), (16, 16222), (17, 16210), (18, 16207), (20, 16195), (21, 16171), (22, 16165), (24, 16150), (27, 16108), (28, 16105),

Gene: LastJedi_30 Start: 26440, Stop: 26691, Start Num: 8
Candidate Starts for LastJedi_30:
(5, 26380), (6, 26401), (Start: 8 @26440 has 5 MA's), (Start: 9 @26458 has 20 MA's), (Start: 10 @26470 has 113 MA's), (14, 26512), (17, 26551), (21, 26590), (22, 26596), (24, 26611), (27, 26653), (28, 26656),

Gene: Latretium_37 Start: 31069, Stop: 31290, Start Num: 10
Candidate Starts for Latretium_37:
(6, 31000), (Start: 8 @31039 has 5 MA's), (Start: 9 @31057 has 20 MA's), (Start: 10 @31069 has 113 MA's), (14, 31111), (17, 31150), (21, 31189), (22, 31195), (24, 31210), (27, 31252), (28, 31255),

Gene: LilMoolah_36 Start: 30560, Stop: 30781, Start Num: 10
Candidate Starts for LilMoolah_36:
(Start: 10 @30560 has 113 MA's), (Start: 11 @30563 has 39 MA's), (15, 30611), (16, 30629), (17, 30641), (18, 30644), (20, 30656), (21, 30680), (24, 30701), (27, 30743), (28, 30746),

Gene: Lizziana_36 Start: 30438, Stop: 30656, Start Num: 11
Candidate Starts for Lizziana_36:
(Start: 10 @30435 has 113 MA's), (Start: 11 @30438 has 39 MA's), (15, 30486), (16, 30504), (17, 30516), (18, 30519), (20, 30531), (21, 30555), (24, 30576), (27, 30618), (28, 30621),

Gene: Llama_37 Start: 30497, Stop: 30718, Start Num: 10
Candidate Starts for Llama_37:
(6, 30428), (Start: 8 @30467 has 5 MA's), (Start: 9 @30485 has 20 MA's), (Start: 10 @30497 has 113 MA's), (14, 30539), (18, 30581), (20, 30593), (21, 30617), (28, 30683),

Gene: Lorde_39 Start: 30529, Stop: 30750, Start Num: 10
Candidate Starts for Lorde_39:
(Start: 10 @30529 has 113 MA's), (Start: 11 @30532 has 39 MA's), (12, 30547), (15, 30580), (16, 30598), (17, 30610), (18, 30613), (20, 30625), (21, 30649), (22, 30655), (24, 30670), (27, 30712), (28, 30715),

Gene: Lukilu_43 Start: 15493, Stop: 15272, Start Num: 10
Candidate Starts for Lukilu_43:
(Start: 10 @15493 has 113 MA's), (Start: 11 @15490 has 39 MA's), (14, 15451), (15, 15442), (16, 15424), (17, 15412), (18, 15409), (20, 15397), (21, 15373), (22, 15367), (24, 15352), (27, 15310), (28, 15307),

Gene: LunaBlu_40 Start: 31303, Stop: 31521, Start Num: 11
Candidate Starts for LunaBlu_40:
(Start: 10 @31300 has 113 MA's), (Start: 11 @31303 has 39 MA's), (15, 31351), (16, 31369), (17, 31381), (18, 31384), (20, 31396), (21, 31420), (22, 31426), (24, 31441), (27, 31483), (28, 31486),

Gene: MadMen_34 Start: 29725, Stop: 29946, Start Num: 10
Candidate Starts for MadMen_34:
(5, 29635), (6, 29656), (Start: 8 @29695 has 5 MA's), (Start: 9 @29713 has 20 MA's), (Start: 10 @29725 has 113 MA's), (14, 29767), (17, 29806), (21, 29845), (22, 29851), (24, 29866), (27, 29908), (28, 29911),

Gene: Madiba_35 Start: 29198, Stop: 29419, Start Num: 10
Candidate Starts for Madiba_35:
(6, 29129), (Start: 8 @29168 has 5 MA's), (Start: 9 @29186 has 20 MA's), (Start: 10 @29198 has 113 MA's), (14, 29240), (17, 29279), (21, 29318), (22, 29324), (24, 29339), (27, 29381), (28, 29384),

Gene: Mahavrat_36 Start: 30329, Stop: 30550, Start Num: 10
Candidate Starts for Mahavrat_36:
(6, 30260), (Start: 8 @30299 has 5 MA's), (Start: 9 @30317 has 20 MA's), (Start: 10 @30329 has 113 MA's), (14, 30371), (18, 30413), (20, 30425), (21, 30449), (24, 30470), (27, 30512), (28, 30515),

Gene: Mandlovu_37 Start: 31054, Stop: 31272, Start Num: 10
Candidate Starts for Mandlovu_37:
(Start: 10 @31054 has 113 MA's), (Start: 11 @31057 has 39 MA's), (15, 31102), (16, 31120), (17, 31132), (18, 31135), (20, 31147), (21, 31171), (22, 31177), (24, 31192), (27, 31234), (28, 31237),

Gene: Mantra_36 Start: 30377, Stop: 30610, Start Num: 9
Candidate Starts for Mantra_36:
(5, 30299), (6, 30320), (Start: 8 @30359 has 5 MA's), (Start: 9 @30377 has 20 MA's), (Start: 10 @30389 has 113 MA's), (18, 30473), (20, 30485), (21, 30509), (22, 30515), (28, 30575),

Gene: Maravista_36 Start: 30190, Stop: 30441, Start Num: 8
Candidate Starts for Maravista_36:
(5, 30130), (6, 30151), (Start: 8 @30190 has 5 MA's), (Start: 9 @30208 has 20 MA's), (Start: 10 @30220 has 113 MA's), (14, 30262), (17, 30301), (21, 30340), (22, 30346), (24, 30361), (27, 30403), (28, 30406),

Gene: Marker_37 Start: 30156, Stop: 30377, Start Num: 10
Candidate Starts for Marker_37:
(5, 30066), (6, 30087), (Start: 8 @30126 has 5 MA's), (Start: 9 @30144 has 20 MA's), (Start: 10 @30156 has 113 MA's), (14, 30198), (18, 30240), (20, 30252), (21, 30276), (22, 30282), (24, 30297), (27, 30339), (28, 30342),

Gene: Martik_37 Start: 30465, Stop: 30683, Start Num: 11
Candidate Starts for Martik_37:
(Start: 10 @30462 has 113 MA's), (Start: 11 @30465 has 39 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (24, 30603), (27, 30645), (28, 30648),

Gene: Mattes_36 Start: 30477, Stop: 30698, Start Num: 10
Candidate Starts for Mattes_36:
(Start: 10 @30477 has 113 MA's), (Start: 11 @30480 has 39 MA's), (15, 30528), (16, 30546), (17, 30558), (18, 30561), (20, 30573), (21, 30597), (22, 30603), (24, 30618), (27, 30660), (28, 30663),

Gene: Medindi_38 Start: 30865, Stop: 31086, Start Num: 10
Candidate Starts for Medindi_38:
(Start: 10 @30865 has 113 MA's), (Start: 11 @30868 has 39 MA's), (15, 30916), (16, 30934), (17, 30946), (18, 30949), (20, 30961), (21, 30985), (22, 30991), (24, 31006), (27, 31048), (28, 31051),

Gene: Melissauren88_36 Start: 30433, Stop: 30648, Start Num: 11
Candidate Starts for Melissauren88_36:
(Start: 10 @30430 has 113 MA's), (Start: 11 @30433 has 39 MA's), (15, 30478), (16, 30496), (17, 30508), (18, 30511), (20, 30523), (21, 30547), (22, 30553), (24, 30568), (27, 30610), (28, 30613),

Gene: MilanaBonita_30 Start: 26361, Stop: 26582, Start Num: 10
Candidate Starts for MilanaBonita_30:
(Start: 10 @26361 has 113 MA's), (Start: 11 @26364 has 39 MA's), (14, 26403), (15, 26412), (16, 26430), (17, 26442), (18, 26445), (20, 26457), (21, 26481), (22, 26487), (24, 26502), (27, 26544), (28, 26547),

Gene: MilleniumForce_38 Start: 31222, Stop: 31440, Start Num: 10
Candidate Starts for MilleniumForce_38:
(Start: 10 @31222 has 113 MA's), (Start: 11 @31225 has 39 MA's), (14, 31261), (15, 31270), (16, 31288), (17, 31300), (18, 31303), (20, 31315), (21, 31339), (22, 31345), (24, 31360), (27, 31402), (28, 31405),

Gene: MinionDave_39 Start: 31462, Stop: 31677, Start Num: 11
Candidate Starts for MinionDave_39:
(Start: 10 @31459 has 113 MA's), (Start: 11 @31462 has 39 MA's), (14, 31498), (15, 31507), (16, 31525), (17, 31537), (18, 31540), (20, 31552), (21, 31576), (22, 31582), (24, 31597), (27, 31639), (28, 31642),

Gene: Misha28_38 Start: 30172, Stop: 30393, Start Num: 10
Candidate Starts for Misha28_38:
(Start: 10 @30172 has 113 MA's), (Start: 11 @30175 has 39 MA's), (15, 30223), (18, 30256), (20, 30268), (21, 30292), (22, 30298), (28, 30358),

Gene: Moonbeam_37 Start: 30976, Stop: 31194, Start Num: 10
Candidate Starts for Moonbeam_37:
(Start: 10 @30976 has 113 MA's), (Start: 11 @30979 has 39 MA's), (14, 31015), (15, 31024), (16, 31042), (17, 31054), (18, 31057), (20, 31069), (21, 31093), (22, 31099), (24, 31114), (27, 31156), (28, 31159),

Gene: Morizzled23_51 Start: 15991, Stop: 15773, Start Num: 11
Candidate Starts for Morizzled23_51:
(Start: 10 @15994 has 113 MA's), (Start: 11 @15991 has 39 MA's), (14, 15952), (15, 15943), (16, 15925), (17, 15913), (18, 15910), (20, 15898), (21, 15874), (22, 15868), (24, 15853), (27, 15811), (28, 15808),

Gene: Mova_37 Start: 30111, Stop: 30332, Start Num: 10
Candidate Starts for Mova_37:
(Start: 10 @30111 has 113 MA's), (Start: 11 @30114 has 39 MA's), (15, 30162), (16, 30180), (17, 30192), (18, 30195), (20, 30207), (21, 30231), (22, 30237), (24, 30252), (27, 30294), (28, 30297),

Gene: Ms6_31 Start: 25896, Stop: 26114, Start Num: 11
Candidate Starts for Ms6_31:
(Start: 10 @25893 has 113 MA's), (Start: 11 @25896 has 39 MA's), (15, 25944), (16, 25962), (17, 25974), (18, 25977), (20, 25989), (21, 26013), (22, 26019), (24, 26034), (27, 26076), (28, 26079),

Gene: MulchExplorer_38 Start: 31401, Stop: 31634, Start Num: 9
Candidate Starts for MulchExplorer_38:
(6, 31344), (Start: 8 @31383 has 5 MA's), (Start: 9 @31401 has 20 MA's), (Start: 10 @31413 has 113 MA's), (14, 31455), (17, 31494), (21, 31533), (22, 31539), (24, 31554), (27, 31596), (28, 31599),

Gene: MulchSalad_33 Start: 27177, Stop: 27398, Start Num: 10
Candidate Starts for MulchSalad_33:

(2, 26949), (6, 27108), (Start: 8 @27147 has 5 MA's), (Start: 9 @27165 has 20 MA's), (Start: 10 @27177 has 113 MA's), (18, 27261), (20, 27273), (21, 27297), (22, 27303), (28, 27363),

Gene: Mwanjiwa_38 Start: 30423, Stop: 30641, Start Num: 11
Candidate Starts for Mwanjiwa_38:
(Start: 10 @30420 has 113 MA's), (Start: 11 @30423 has 39 MA's), (14, 30462), (15, 30471), (16, 30489), (17, 30501), (18, 30504), (20, 30516), (21, 30540), (22, 30546), (24, 30561), (27, 30603), (28, 30606),

Gene: NewHope4_41 Start: 31105, Stop: 31320, Start Num: 11
Candidate Starts for NewHope4_41:
(Start: 10 @31102 has 113 MA's), (Start: 11 @31105 has 39 MA's), (14, 31141), (15, 31150), (16, 31168), (17, 31180), (18, 31183), (20, 31195), (21, 31219), (22, 31225), (24, 31240), (27, 31282), (28, 31285),

Gene: Nichirin_37 Start: 30526, Stop: 30747, Start Num: 10
Candidate Starts for Nichirin_37:
(6, 30457), (Start: 8 @30496 has 5 MA's), (Start: 9 @30514 has 20 MA's), (Start: 10 @30526 has 113 MA's), (14, 30568), (18, 30610), (20, 30622), (21, 30646), (28, 30712),

Gene: Nivrat_36 Start: 30434, Stop: 30655, Start Num: 10
Candidate Starts for Nivrat_36:
(Start: 10 @30434 has 113 MA's), (Start: 11 @30437 has 39 MA's), (15, 30485), (16, 30503), (17, 30515), (18, 30518), (20, 30530), (21, 30554), (24, 30575), (27, 30617), (28, 30620),

Gene: NormanBulbieJr_37 Start: 30449, Stop: 30670, Start Num: 10
Candidate Starts for NormanBulbieJr_37:
(Start: 10 @30449 has 113 MA's), (Start: 11 @30452 has 39 MA's), (15, 30500), (16, 30518), (17, 30530), (18, 30533), (20, 30545), (21, 30569), (24, 30590), (27, 30632), (28, 30635),

Gene: Ochi17_35 Start: 29949, Stop: 30170, Start Num: 10
Candidate Starts for Ochi17_35:
(6, 29880), (Start: 8 @29919 has 5 MA's), (Start: 9 @29937 has 20 MA's), (Start: 10 @29949 has 113 MA's), (14, 29991), (18, 30033), (20, 30045), (21, 30069), (28, 30135),

Gene: OfUltron_37 Start: 30498, Stop: 30719, Start Num: 10
Candidate Starts for OfUltron_37:
(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 20 MA's), (Start: 10 @30498 has 113 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Ogopogo_36 Start: 29642, Stop: 29863, Start Num: 10
Candidate Starts for Ogopogo_36:
(Start: 10 @29642 has 113 MA's), (Start: 11 @29645 has 39 MA's), (15, 29693), (16, 29711), (17, 29723), (18, 29726), (20, 29738), (21, 29762), (22, 29768), (24, 29783), (27, 29825), (28, 29828),

Gene: Okabe_37 Start: 27338, Stop: 27553, Start Num: 11
Candidate Starts for Okabe_37:
(Start: 10 @27335 has 113 MA's), (Start: 11 @27338 has 39 MA's), (14, 27374), (15, 27383), (16, 27401), (17, 27413), (18, 27416), (20, 27428), (21, 27452), (22, 27458), (24, 27473), (28, 27518),

Gene: Oksu_37 Start: 30342, Stop: 30563, Start Num: 10
Candidate Starts for Oksu_37:

(6, 30273), (Start: 8 @30312 has 5 MA's), (Start: 9 @30330 has 20 MA's), (Start: 10 @30342 has 113 MA's), (14, 30384), (18, 30426), (20, 30438), (21, 30462), (28, 30528),

Gene: PatoPoderoso_36 Start: 30487, Stop: 30705, Start Num: 11
Candidate Starts for PatoPoderoso_36:
(Start: 10 @30484 has 113 MA's), (Start: 11 @30487 has 39 MA's), (14, 30526), (15, 30535), (16, 30553), (17, 30565), (18, 30568), (20, 30580), (21, 30604), (22, 30610), (24, 30625), (27, 30667), (28, 30670),

Gene: Peridot_39 Start: 31790, Stop: 32011, Start Num: 10
Candidate Starts for Peridot_39:
(5, 31700), (6, 31721), (Start: 8 @31760 has 5 MA's), (Start: 9 @31778 has 20 MA's), (Start: 10 @31790 has 113 MA's), (14, 31832), (18, 31874), (20, 31886), (21, 31910), (28, 31976),

Gene: Phalconet_37 Start: 30400, Stop: 30615, Start Num: 11
Candidate Starts for Phalconet_37:
(Start: 10 @30397 has 113 MA's), (Start: 11 @30400 has 39 MA's), (15, 30445), (16, 30463), (17, 30475), (18, 30478), (20, 30490), (21, 30514), (22, 30520), (24, 30535), (27, 30577), (28, 30580),

Gene: Phanphagia_33 Start: 29419, Stop: 29640, Start Num: 10
Candidate Starts for Phanphagia_33:
(Start: 10 @29419 has 113 MA's), (Start: 11 @29422 has 39 MA's), (14, 29461), (15, 29470), (16, 29488), (17, 29500), (18, 29503), (20, 29515), (21, 29539), (22, 29545), (24, 29560), (27, 29602), (28, 29605),

Gene: Phasih_37 Start: 30847, Stop: 31068, Start Num: 10
Candidate Starts for Phasih_37:
(6, 30778), (Start: 8 @30817 has 5 MA's), (Start: 9 @30835 has 20 MA's), (Start: 10 @30847 has 113 MA's), (14, 30889), (18, 30931), (20, 30943), (21, 30967), (22, 30973), (28, 31033),

Gene: Phatniss_37 Start: 30758, Stop: 31009, Start Num: 8
Candidate Starts for Phatniss_37:
(6, 30719), (Start: 8 @30758 has 5 MA's), (Start: 9 @30776 has 20 MA's), (Start: 10 @30788 has 113 MA's), (14, 30830), (17, 30869), (21, 30908), (22, 30914), (24, 30929), (27, 30971), (28, 30974),

Gene: PhesterPhotato_37 Start: 30320, Stop: 30538, Start Num: 11
Candidate Starts for PhesterPhotato_37:
(Start: 10 @30317 has 113 MA's), (Start: 11 @30320 has 39 MA's), (15, 30368), (16, 30386), (17, 30398), (18, 30401), (20, 30413), (21, 30437), (22, 30443), (24, 30458), (27, 30500), (28, 30503),

Gene: Philus_36 Start: 30365, Stop: 30583, Start Num: 11
Candidate Starts for Philus_36:
(Start: 10 @30362 has 113 MA's), (Start: 11 @30365 has 39 MA's), (15, 30413), (16, 30431), (17, 30443), (18, 30446), (20, 30458), (21, 30482), (22, 30488), (24, 30503), (27, 30545), (28, 30548),

Gene: Phox_47 Start: 16755, Stop: 16534, Start Num: 10
Candidate Starts for Phox_47:
(Start: 10 @16755 has 113 MA's), (Start: 11 @16752 has 39 MA's), (14, 16713), (15, 16704), (16, 16686), (17, 16674), (18, 16671), (20, 16659), (21, 16635), (22, 16629), (24, 16614), (27, 16572), (28, 16569),

Gene: Pinkcreek_40 Start: 14224, Stop: 14003, Start Num: 10
Candidate Starts for Pinkcreek_40:

(Start: 10 @14224 has 113 MA's), (Start: 11 @14221 has 39 MA's), (14, 14182), (15, 14173), (16, 14155), (17, 14143), (18, 14140), (20, 14128), (21, 14104), (22, 14098), (24, 14083), (27, 14041), (28, 14038),

Gene: Piper2020_39 Start: 30888, Stop: 31109, Start Num: 10
Candidate Starts for Piper2020_39:
(Start: 10 @30888 has 113 MA's), (Start: 11 @30891 has 39 MA's), (15, 30939), (16, 30957), (17, 30969), (18, 30972), (20, 30984), (21, 31008), (22, 31014), (24, 31029), (27, 31071), (28, 31074),

Gene: Pippy_30 Start: 26425, Stop: 26646, Start Num: 10
Candidate Starts for Pippy_30:
(Start: 10 @26425 has 113 MA's), (Start: 11 @26428 has 39 MA's), (15, 26476), (16, 26494), (17, 26506), (18, 26509), (20, 26521), (21, 26545), (24, 26566), (27, 26608), (28, 26611),

Gene: Poenanya_37 Start: 30411, Stop: 30629, Start Num: 11
Candidate Starts for Poenanya_37:
(Start: 10 @30408 has 113 MA's), (Start: 11 @30411 has 39 MA's), (15, 30459), (16, 30477), (17, 30489), (18, 30492), (20, 30504), (21, 30528), (24, 30549), (27, 30591), (28, 30594),

Gene: Pollywog_36 Start: 30608, Stop: 30841, Start Num: 9
Candidate Starts for Pollywog_36:
(6, 30551), (Start: 8 @30590 has 5 MA's), (Start: 9 @30608 has 20 MA's), (Start: 10 @30620 has 113 MA's), (14, 30662), (17, 30701), (21, 30740), (22, 30746), (24, 30761), (27, 30803), (28, 30806),

Gene: Polo2Bam_41 Start: 30467, Stop: 30685, Start Num: 10
Candidate Starts for Polo2Bam_41:
(Start: 10 @30467 has 113 MA's), (Start: 11 @30470 has 39 MA's), (15, 30515), (16, 30533), (17, 30545), (18, 30548), (20, 30560), (21, 30584), (22, 30590), (24, 30605), (27, 30647), (28, 30650),

Gene: PopTart_36 Start: 30601, Stop: 30819, Start Num: 10
Candidate Starts for PopTart_36:
(Start: 10 @30601 has 113 MA's), (Start: 11 @30604 has 39 MA's), (14, 30640), (15, 30649), (16, 30667), (17, 30679), (18, 30682), (20, 30694), (21, 30718), (22, 30724), (24, 30739), (27, 30781), (28, 30784),

Gene: Priscilla_36 Start: 30547, Stop: 30768, Start Num: 10
Candidate Starts for Priscilla_36:
(Start: 10 @30547 has 113 MA's), (Start: 11 @30550 has 39 MA's), (15, 30598), (16, 30616), (17, 30628), (18, 30631), (20, 30643), (21, 30667), (24, 30688), (27, 30730), (28, 30733),

Gene: Pupusa_55 Start: 18126, Stop: 17905, Start Num: 10
Candidate Starts for Pupusa_55:
(Start: 10 @18126 has 113 MA's), (Start: 11 @18123 has 39 MA's), (14, 18084), (15, 18075), (16, 18057), (17, 18045), (18, 18042), (20, 18030), (21, 18006), (22, 18000), (24, 17985), (27, 17943), (28, 17940),

Gene: Rabinovish_47 Start: 16933, Stop: 16712, Start Num: 10
Candidate Starts for Rabinovish_47:
(Start: 10 @16933 has 113 MA's), (Start: 11 @16930 has 39 MA's), (15, 16882), (16, 16864), (17, 16852), (18, 16849), (20, 16837), (21, 16813), (24, 16792), (27, 16750), (28, 16747),

Gene: Radiance_37 Start: 30462, Stop: 30683, Start Num: 10
Candidate Starts for Radiance_37:

(6, 30393), (Start: 8 @30432 has 5 MA's), (Start: 9 @30450 has 20 MA's), (Start: 10 @30462 has 113 MA's), (14, 30504), (17, 30543), (21, 30582), (22, 30588), (28, 30648),

Gene: Ramsey_39 Start: 31110, Stop: 31343, Start Num: 9
Candidate Starts for Ramsey_39:
(6, 31053), (Start: 8 @31092 has 5 MA's), (Start: 9 @31110 has 20 MA's), (Start: 10 @31122 has 113 MA's), (14, 31164), (17, 31203), (21, 31242), (22, 31248), (28, 31308),

Gene: RedBird_36 Start: 30268, Stop: 30489, Start Num: 10
Candidate Starts for RedBird_36:
(5, 30178), (6, 30199), (Start: 8 @30238 has 5 MA's), (Start: 9 @30256 has 20 MA's), (Start: 10 @30268 has 113 MA's), (14, 30310), (17, 30349), (21, 30388), (22, 30394), (24, 30409), (27, 30451), (28, 30454),

Gene: Renaud18_37 Start: 30490, Stop: 30711, Start Num: 10
Candidate Starts for Renaud18_37:
(Start: 10 @30490 has 113 MA's), (Start: 11 @30493 has 39 MA's), (15, 30541), (16, 30559), (17, 30571), (18, 30574), (21, 30610), (24, 30631), (27, 30673), (28, 30676),

Gene: Rialto_41 Start: 32618, Stop: 32839, Start Num: 10
Candidate Starts for Rialto_41:
(Start: 10 @32618 has 113 MA's), (Start: 11 @32621 has 39 MA's), (14, 32660), (15, 32669), (16, 32687), (17, 32699), (18, 32702), (20, 32714), (21, 32738), (22, 32744), (24, 32759), (27, 32801), (28, 32804),

Gene: Rita_38 Start: 30536, Stop: 30757, Start Num: 10
Candidate Starts for Rita_38:
(6, 30467), (Start: 8 @30506 has 5 MA's), (Start: 9 @30524 has 20 MA's), (Start: 10 @30536 has 113 MA's), (14, 30578), (18, 30620), (20, 30632), (21, 30656), (28, 30722),

Gene: Rockne_36 Start: 30241, Stop: 30492, Start Num: 8
Candidate Starts for Rockne_36:
(6, 30202), (Start: 8 @30241 has 5 MA's), (Start: 9 @30259 has 20 MA's), (Start: 10 @30271 has 113 MA's), (14, 30313), (17, 30352), (21, 30391), (22, 30397), (24, 30412), (27, 30454), (28, 30457),

Gene: Ronan_43 Start: 13565, Stop: 13344, Start Num: 10
Candidate Starts for Ronan_43:
(Start: 10 @13565 has 113 MA's), (Start: 11 @13562 has 39 MA's), (14, 13523), (15, 13514), (16, 13496), (17, 13484), (18, 13481), (20, 13469), (21, 13445), (22, 13439), (24, 13424), (27, 13382), (28, 13379),

Gene: SG4_38 Start: 31042, Stop: 31260, Start Num: 11
Candidate Starts for SG4_38:
(Start: 10 @31039 has 113 MA's), (Start: 11 @31042 has 39 MA's), (12, 31057), (15, 31090), (16, 31108), (17, 31120), (18, 31123), (20, 31135), (21, 31159), (22, 31165), (24, 31180), (27, 31222), (28, 31225),

Gene: Saal_36 Start: 30340, Stop: 30561, Start Num: 10
Candidate Starts for Saal_36:
(Start: 10 @30340 has 113 MA's), (Start: 11 @30343 has 39 MA's), (15, 30391), (16, 30409), (17, 30421), (18, 30424), (20, 30436), (21, 30460), (22, 30466), (24, 30481), (27, 30523), (28, 30526),

Gene: Sandalphon_37 Start: 31069, Stop: 31290, Start Num: 10

Candidate Starts for Sandalphon_37:
(Start: 10 @31069 has 113 MA's), (Start: 11 @31072 has 39 MA's), (14, 31111), (15, 31120), (16, 31138), (17, 31150), (18, 31153), (20, 31165), (21, 31189), (22, 31195), (24, 31210), (27, 31252), (28, 31255),

Gene: Sassafras_37 Start: 30971, Stop: 31192, Start Num: 10
Candidate Starts for Sassafras_37:
(6, 30902), (Start: 8 @30941 has 5 MA's), (Start: 9 @30959 has 20 MA's), (Start: 10 @30971 has 113 MA's), (14, 31013), (17, 31052), (21, 31091), (22, 31097), (28, 31157),

Gene: SassyB_36 Start: 30601, Stop: 30819, Start Num: 10
Candidate Starts for SassyB_36:
(Start: 10 @30601 has 113 MA's), (Start: 11 @30604 has 39 MA's), (14, 30640), (15, 30649), (16, 30667), (17, 30679), (18, 30682), (20, 30694), (21, 30718), (22, 30724), (24, 30739), (27, 30781), (28, 30784),

Gene: SeaLumen_41 Start: 30467, Stop: 30685, Start Num: 10
Candidate Starts for SeaLumen_41:
(Start: 10 @30467 has 113 MA's), (Start: 11 @30470 has 39 MA's), (15, 30515), (16, 30533), (17, 30545), (18, 30548), (20, 30560), (21, 30584), (22, 30590), (24, 30605), (27, 30647), (28, 30650),

Gene: Seabastian_37 Start: 30498, Stop: 30719, Start Num: 10
Candidate Starts for Seabastian_37:
(6, 30429), (Start: 8 @30468 has 5 MA's), (Start: 9 @30486 has 20 MA's), (Start: 10 @30498 has 113 MA's), (14, 30540), (18, 30582), (20, 30594), (21, 30618), (28, 30684),

Gene: Seagreen_37 Start: 30398, Stop: 30631, Start Num: 9
Candidate Starts for Seagreen_37:
(5, 30320), (6, 30341), (Start: 8 @30380 has 5 MA's), (Start: 9 @30398 has 20 MA's), (Start: 10 @30410 has 113 MA's), (14, 30452), (18, 30494), (20, 30506), (21, 30530), (22, 30536), (24, 30551), (27, 30593), (28, 30596),

Gene: Shaqnato_44 Start: 14710, Stop: 14492, Start Num: 11
Candidate Starts for Shaqnato_44:
(Start: 10 @14713 has 113 MA's), (Start: 11 @14710 has 39 MA's), (14, 14671), (15, 14662), (16, 14644), (17, 14632), (18, 14629), (20, 14617), (21, 14593), (22, 14587), (24, 14572), (27, 14530), (28, 14527),

Gene: Shauna1_34 Start: 29425, Stop: 29643, Start Num: 11
Candidate Starts for Shauna1_34:
(Start: 10 @29422 has 113 MA's), (Start: 11 @29425 has 39 MA's), (14, 29464), (15, 29473), (16, 29491), (17, 29503), (18, 29506), (20, 29518), (21, 29542), (22, 29548), (24, 29563), (27, 29605), (28, 29608),

Gene: ShiLan_36 Start: 30503, Stop: 30724, Start Num: 10
Candidate Starts for ShiLan_36:
(Start: 10 @30503 has 113 MA's), (Start: 11 @30506 has 39 MA's), (15, 30554), (16, 30572), (17, 30584), (18, 30587), (20, 30599), (21, 30623), (24, 30644), (27, 30686), (28, 30689),

Gene: ShowerHandel_37 Start: 30462, Stop: 30683, Start Num: 10
Candidate Starts for ShowerHandel_37:
(Start: 10 @30462 has 113 MA's), (Start: 11 @30465 has 39 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (24, 30603), (27, 30645), (28, 30648),

Gene: SilverChicken_44 Start: 30187, Stop: 30408, Start Num: 10
Candidate Starts for SilverChicken_44:
(Start: 10 @30187 has 113 MA's), (Start: 11 @30190 has 39 MA's), (15, 30238), (16, 30256), (17, 30268), (18, 30271), (20, 30283), (21, 30307), (24, 30328), (27, 30370), (28, 30373),

Gene: Soul22_42 Start: 30665, Stop: 30883, Start Num: 10
Candidate Starts for Soul22_42:
(Start: 10 @30665 has 113 MA's), (Start: 11 @30668 has 39 MA's), (15, 30713), (16, 30731), (17, 30743), (18, 30746), (20, 30758), (21, 30782), (22, 30788), (24, 30803), (27, 30845), (28, 30848),

Gene: Sparkdehlily_36 Start: 30375, Stop: 30608, Start Num: 9
Candidate Starts for Sparkdehlily_36:
(6, 30318), (Start: 8 @30357 has 5 MA's), (Start: 9 @30375 has 20 MA's), (Start: 10 @30387 has 113 MA's), (14, 30429), (18, 30471), (20, 30483), (21, 30507), (28, 30573),

Gene: Spartacus_39 Start: 30803, Stop: 31021, Start Num: 11
Candidate Starts for Spartacus_39:
(Start: 10 @30800 has 113 MA's), (Start: 11 @30803 has 39 MA's), (12, 30818), (15, 30851), (16, 30869), (17, 30881), (18, 30884), (21, 30920), (24, 30941), (27, 30983), (28, 30986),

Gene: Spikelee_38 Start: 30523, Stop: 30756, Start Num: 9
Candidate Starts for Spikelee_38:
(6, 30466), (Start: 8 @30505 has 5 MA's), (Start: 9 @30523 has 20 MA's), (Start: 10 @30535 has 113 MA's), (14, 30577), (17, 30616), (21, 30655), (22, 30661), (24, 30676), (27, 30718), (28, 30721),

Gene: StAnnes_36 Start: 30868, Stop: 31086, Start Num: 11
Candidate Starts for StAnnes_36:
(Start: 10 @30865 has 113 MA's), (Start: 11 @30868 has 39 MA's), (15, 30916), (16, 30934), (17, 30946), (18, 30949), (20, 30961), (21, 30985), (22, 30991), (24, 31006), (27, 31048), (28, 31051),

Gene: Strokeseat_38 Start: 31114, Stop: 31329, Start Num: 11
Candidate Starts for Strokeseat_38:
(Start: 10 @31111 has 113 MA's), (Start: 11 @31114 has 39 MA's), (15, 31159), (16, 31177), (17, 31189), (18, 31192), (20, 31204), (21, 31228), (22, 31234), (24, 31249), (27, 31291), (28, 31294),

Gene: Stubby_44 Start: 15552, Stop: 15334, Start Num: 11
Candidate Starts for Stubby_44:
(Start: 10 @15555 has 113 MA's), (Start: 11 @15552 has 39 MA's), (14, 15513), (15, 15504), (16, 15486), (17, 15474), (18, 15471), (20, 15459), (21, 15435), (22, 15429), (24, 15414), (27, 15372), (28, 15369),

Gene: SuperGrey_38 Start: 31257, Stop: 31478, Start Num: 10
Candidate Starts for SuperGrey_38:
(Start: 10 @31257 has 113 MA's), (Start: 11 @31260 has 39 MA's), (14, 31299), (15, 31308), (16, 31326), (17, 31338), (18, 31341), (20, 31353), (21, 31377), (22, 31383), (24, 31398), (27, 31440), (28, 31443),

Gene: SwagPigglett_37 Start: 30273, Stop: 30494, Start Num: 10
Candidate Starts for SwagPigglett_37:
(Start: 10 @30273 has 113 MA's), (Start: 11 @30276 has 39 MA's), (15, 30324), (16, 30342), (17, 30354), (18, 30357), (20, 30369), (21, 30393), (24, 30414), (27, 30456), (28, 30459),

Gene: TDanisky_36 Start: 30375, Stop: 30608, Start Num: 9
Candidate Starts for TDanisky_36:
(6, 30318), (Start: 8 @30357 has 5 MA's), (Start: 9 @30375 has 20 MA's), (Start: 10 @30387 has 113 MA's), (14, 30429), (18, 30471), (20, 30483), (21, 30507), (28, 30573),

Gene: Tchotchke_36 Start: 29891, Stop: 30112, Start Num: 10
Candidate Starts for Tchotchke_36:
(6, 29822), (Start: 8 @29861 has 5 MA's), (Start: 9 @29879 has 20 MA's), (Start: 10 @29891 has 113 MA's), (14, 29933), (18, 29975), (20, 29987), (21, 30011), (28, 30077),

Gene: TootsiePop_38 Start: 30172, Stop: 30393, Start Num: 10
Candidate Starts for TootsiePop_38:
(Start: 10 @30172 has 113 MA's), (Start: 11 @30175 has 39 MA's), (15, 30223), (18, 30256), (20, 30268), (21, 30292), (22, 30298), (28, 30358),

Gene: Tootsieroll_38 Start: 30341, Stop: 30559, Start Num: 11
Candidate Starts for Tootsieroll_38:
(Start: 10 @30338 has 113 MA's), (Start: 11 @30341 has 39 MA's), (14, 30380), (15, 30389), (16, 30407), (17, 30419), (18, 30422), (20, 30434), (21, 30458), (22, 30464), (24, 30479), (27, 30521), (28, 30524),

Gene: Topiatin_39 Start: 30962, Stop: 31195, Start Num: 9
Candidate Starts for Topiatin_39:
(6, 30905), (Start: 8 @30944 has 5 MA's), (Start: 9 @30962 has 20 MA's), (Start: 10 @30974 has 113 MA's), (14, 31016), (18, 31058), (20, 31070), (21, 31094), (28, 31160),

Gene: Tweety_36 Start: 30508, Stop: 30729, Start Num: 10
Candidate Starts for Tweety_36:
(5, 30418), (6, 30439), (Start: 8 @30478 has 5 MA's), (Start: 9 @30496 has 20 MA's), (Start: 10 @30508 has 113 MA's), (14, 30550), (17, 30589), (21, 30628), (22, 30634), (24, 30649), (27, 30691), (28, 30694),

Gene: UncleRicky_39 Start: 31574, Stop: 31825, Start Num: 8
Candidate Starts for UncleRicky_39:
(6, 31535), (Start: 8 @31574 has 5 MA's), (Start: 9 @31592 has 20 MA's), (Start: 10 @31604 has 113 MA's), (14, 31646), (17, 31685), (21, 31724), (22, 31730), (24, 31745), (27, 31787), (28, 31790),

Gene: Violac_38 Start: 30993, Stop: 31211, Start Num: 11
Candidate Starts for Violac_38:
(Start: 10 @30990 has 113 MA's), (Start: 11 @30993 has 39 MA's), (14, 31032), (15, 31041), (16, 31059), (17, 31071), (18, 31074), (20, 31086), (21, 31110), (22, 31116), (24, 31131), (27, 31173), (28, 31176),

Gene: Wachhund_36 Start: 30465, Stop: 30683, Start Num: 11
Candidate Starts for Wachhund_36:
(Start: 10 @30462 has 113 MA's), (Start: 11 @30465 has 39 MA's), (15, 30513), (16, 30531), (17, 30543), (18, 30546), (20, 30558), (21, 30582), (22, 30588), (24, 30603), (27, 30645), (28, 30648),

Gene: Whatsapiecost_38 Start: 30724, Stop: 30939, Start Num: 11
Candidate Starts for Whatsapiecost_38:
(Start: 10 @30721 has 113 MA's), (Start: 11 @30724 has 39 MA's), (14, 30760), (15, 30769), (16, 30787), (17, 30799), (18, 30802), (20, 30814), (21, 30838), (22, 30844), (24, 30859), (27, 30901), (28, 30904),

Gene: Whouxphf_38 Start: 30779, Stop: 31000, Start Num: 10
Candidate Starts for Whouxphf_38:
(6, 30710), (Start: 8 @30749 has 5 MA's), (Start: 9 @30767 has 20 MA's), (Start: 10 @30779 has 113 MA's), (14, 30821), (18, 30863), (20, 30875), (21, 30899), (22, 30905), (24, 30920), (27, 30962), (28, 30965),

Gene: WillSterrel_39 Start: 31917, Stop: 32135, Start Num: 11
Candidate Starts for WillSterrel_39:
(Start: 10 @31914 has 113 MA's), (Start: 11 @31917 has 39 MA's), (12, 31932), (15, 31965), (16, 31983), (17, 31995), (18, 31998), (21, 32034), (24, 32055), (27, 32097), (28, 32100),

Gene: XFactor_36 Start: 30466, Stop: 30687, Start Num: 10
Candidate Starts for XFactor_36:
(Start: 10 @30466 has 113 MA's), (Start: 11 @30469 has 39 MA's), (15, 30517), (16, 30535), (17, 30547), (18, 30550), (20, 30562), (21, 30586), (22, 30592), (24, 30607), (27, 30649), (28, 30652),

Gene: Yassified_47 Start: 15547, Stop: 15329, Start Num: 11
Candidate Starts for Yassified_47:
(Start: 10 @15550 has 113 MA's), (Start: 11 @15547 has 39 MA's), (14, 15508), (15, 15499), (16, 15481), (17, 15469), (18, 15466), (20, 15454), (21, 15430), (22, 15424), (24, 15409), (27, 15367), (28, 15364),

Gene: Yorick_36 Start: 30450, Stop: 30683, Start Num: 9
Candidate Starts for Yorick_36:
(6, 30393), (Start: 8 @30432 has 5 MA's), (Start: 9 @30450 has 20 MA's), (Start: 10 @30462 has 113 MA's), (14, 30504), (17, 30543), (21, 30582), (22, 30588), (24, 30603), (27, 30645), (28, 30648),

Gene: Zizzle_36 Start: 30404, Stop: 30625, Start Num: 10
Candidate Starts for Zizzle_36:
(Start: 10 @30404 has 113 MA's), (Start: 11 @30407 has 39 MA's), (15, 30455), (16, 30473), (17, 30485), (18, 30488), (20, 30500), (21, 30524), (24, 30545), (27, 30587), (28, 30590),