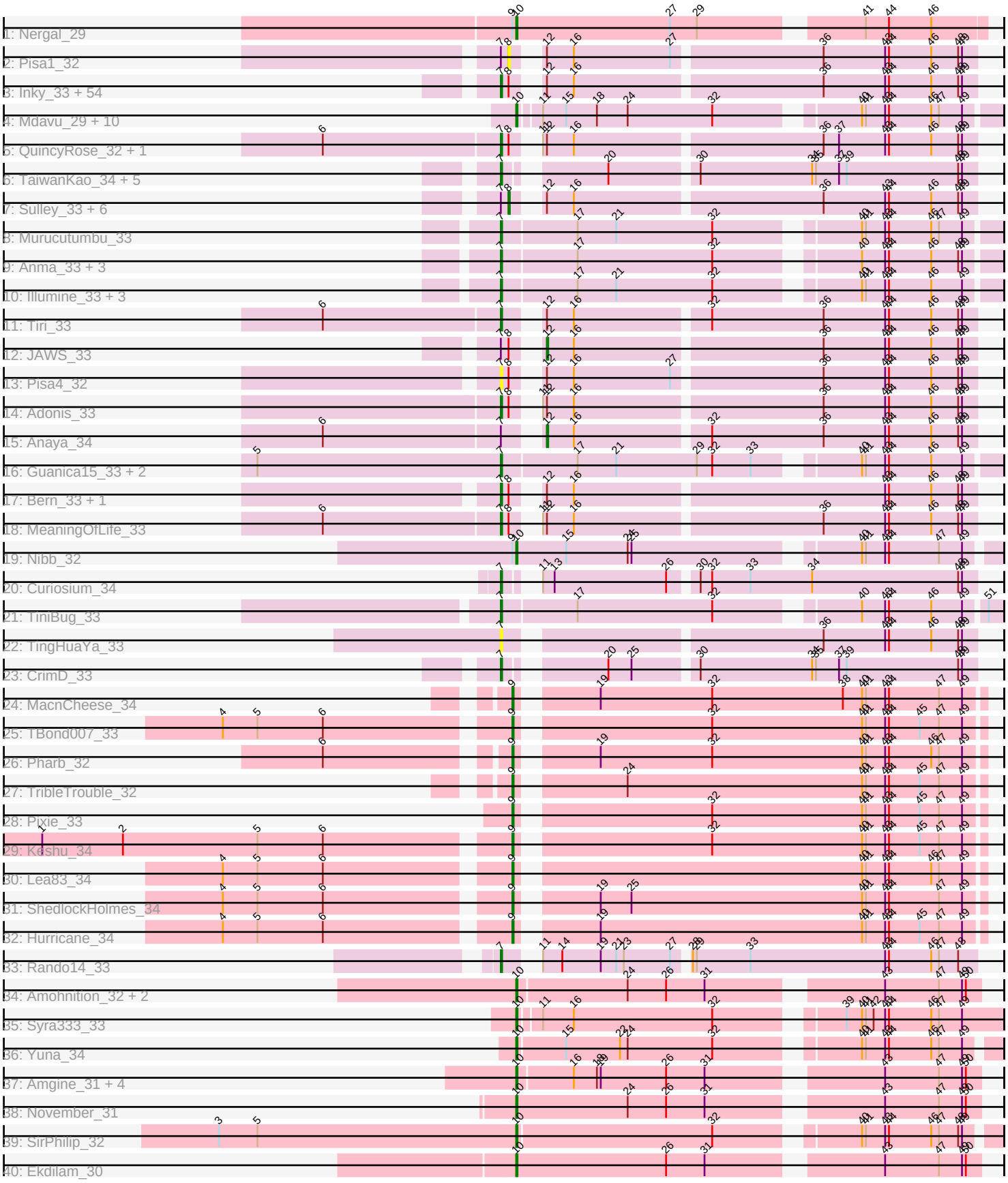
Pham 347378


1: Nergal_29
2: Pisa1_32
3: Inky_33 + 54
4: Mdavu_29 + 10
5: QuincyRose_32 + 1
6: TaiwanKao_34 + 5
7: Sulley_33 + 6
8: Murucutumbu_33
9: Anma_33 + 3
10: Illumine_33 + 3
11: Tiri_33
12: JAWS_33
13: Pisa4_32
14: Adonis_33
15: Anaya_34
16: Guanica15_33 + 2
17: Bern_33 + 1
18: MeaningOfLife_33
19: Nibb_32
20: Curiosium_34
21: TiniBug_33
22: TingHuaYa_33
23: CrimD_33
24: MacnCheese_34
25: TBond007_33
26: Pharb_32
27: TribleTrouble_32
28: Pixie_33
29: Kashu_34
30: Lea83_34
31: ShedlockHolmes_34
32: Hurricane_34
33: Rando14_33
34: Amohnition_32 + 2
35: Syra333_33
36: Yuna_34
37: Amgine_31 + 4
38: November_31
39: SirPhilip_32
40: Ekdilam_30

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 347378 Report

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

Pham number 347378 has 131 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Nergal_29
• Track 2 : Pisa1_32
• Track 3 : Inky_33, Spock_33, Ramen_33, ShiaSurprise_33, Deby_33, Padfoot_33, Piatt_33, BaghaKamala_33, Zavala_33, Jayhawk_33, Rapunzel97_33, Slimphazie_33, Joy99_33, Belladonna_33, Asayake_33, Capricorn_33, BGlluviae_33, CheetoDust_33, CREW_33, CallaLilly_33, MacKat_33, HedwigODU_33, Tachez_33, Topper_33, Dalmuri_33, Mynx_33, Twitch_33, Jeckyll_33, Zabiza_33, Beezoo_33, ActinUp_33, DartGoblin_33, Clipper_33, Veliki_33, Stinson_34, Rosmarinus_33, Emerson_33, Pokerus_32, Hyperbowlee_33, CaseJules_33, TruffulaTree_33, Padpat_33, Blizzard_33, Lunahalos_33, Peel_33, Lokum_33, Llorens_33, Durfee_33, Apocalypse_33, Boiiii_33, YoureAdopted_32, Bella96_33, Jarvi_33, Homura_33, Geraldini_33
• Track 4 : Mdavu_29, Teejan_29, Trice_29, Enkosi_29, Nikao_29, LilPharaoh_29, Biglebops_29, Amelie_29, SgtBeansprout_29, Torres_29, Nutello_29
• Track 5 : QuincyRose_32, Ganymede_34
• Track 6 : TaiwanKao_34, LindNT_33, TreyKay_33, Ageofdapage_33, Megsy_33, Prithvi_33
• Track 7 : Sulley_33, BEEST_33, Angelica_33, Atiba_33, AlishaPH_33, BarrelRoll_33, Adephagia_33
• Track 8 : Murucutumbu_33
• Track 9 : Anma_33, Urkel_33, SamuelLPlaqson_33, DrHayes_33
• Track 10 : Illumine_33, LaterM_33, Dole_33, Devera_33
• Track 11 : Tiri_33
• Track 12 : JAWS_33
• Track 13 : Pisa4_32
• Track 14 : Adonis_33
• Track 15 : Anaya_34
• Track 16 : Guanica15_33, Yunkel11_33, Efra2_33
• Track 17 : Bern_33, Kheparia_35
• Track 18 : MeaningOfLife_33
• Track 19 : Nibb_32
• Track 20 : Curiosium_34
• Track 21 : TiniBug_33
• Track 22 : TingHuaYa_33
• Track 23 : CrimD_33
• Track 24 : MacnCheese_34
• Track 25 : TBond007_33

• Track 26 : Pharb_32
• Track 27 : TribleTrouble_32
• Track 28 : Pixie_33
• Track 29 : Keshu_34
• Track 30 : Lea83_34
• Track 31 : ShedlockHolmes_34
• Track 32 : Hurricane_34
• Track 33 : Rando14_33
• Track 34 : Amohnition_32, DarthP_32, Hammy_32
• Track 35 : Syra333_33
• Track 36 : Yuna_34
• Track 37 : Amgine_31, Ellie_30, Applecrisp_31, Lavahound_31, Fefferhead_32
• Track 38 : November_31
• Track 39 : SirPhilip_32
• Track 40 : Ekdilam_30

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

The start number called the most often in the published annotations is 7, it was called in 81 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ActinUp_33, Adonis_33, Ageofdapage_33, Anma_33, Apocalypse_33, Asayake_33, BGlluviae_33, BaghaKamala_33, Beezoo_33, Bella96_33, Belladonna_33, Bern_33, Blizzard_33, Boiiii_33, CREW_33, CallaLilly_33, Capricorn_33, CaseJules_33, CheetoDust_33, Clipper_33, CrimD_33, Curiosium_34, Dalmuri_33, DartGoblin_33, Deby_33, Devera_33, Dole_33, DrHayes_33, Durfee_33, Efra2_33, Emerson_33, Ganymede_34, Geraldini_33, Guanica15_33, HedwigODU_33, Homura_33, Hyperbowlee_33, Illumine_33, Inky_33, Jarvi_33, Jayhawk_33, Jeckyll_33, Joy99_33, Kheparia_35, LaterM_33, LindNT_33, Llorens_33, Lokum_33, Lunahalos_33, MacKat_33, MeaningOfLife_33, Megsy_33, Murucutumbu_33, Mynx_33, Padfoot_33, Padpat_33, Peel_33, Piatt_33, Pisa4_32, Pokerus_32, Prithvi_33, QuincyRose_32, Ramen_33, Rando14_33, Rapunzel97_33, Rosmarinus_33, SamuelLPlaqson_33, ShiaSurprise_33, Slimphazie_33, Spock_33, Stinson_34, Tachez_33, TaiwanKao_34, TingHuaYa_33, TiniBug_33, Tiri_33, Topper_33, TreyKay_33, TruffulaTree_33, Twitch_33, Urkel_33, Veliki_33, YoureAdopted_32, Yunkel11_33, Zabiza_33, Zavala_33,

Genes that have the "Most Annotated" start but do not call it:
• Adephagia_33, AlishaPH_33, Anaya_34, Angelica_33, Atiba_33, BEEST_33, BarrelRoll_33, JAWS_33, Pisa1_32, Sulley_33,

Genes that do not have the "Most Annotated" start:
• Amelie_29, Amgine_31, Amohnition_32, Applecrisp_31, Biglebops_29, DarthP_32, Ekdilam_30, Ellie_30, Enkosi_29, Fefferhead_32, Hammy_32, Hurricane_34, Keshu_34, Lavahound_31, Lea83_34, LilPharaoh_29, MacnCheese_34, Mdavu_29, Nergal_29, Nibb_32, Nikao_29, November_31, Nutello_29, Pharb_32, Pixie_33, SgtBeansprout_29, ShedlockHolmes_34, SirPhilip_32, Syra333_33, TBond007_33, Teejan_29, Torres_29, TribleTrouble_32, Trice_29, Yuna_34,

Summary by start number:

Start 7:
• Found in 96 of 131 (73.3%) of genes in pham
• Manual Annotations of this start: 81 of 123
• Called 89.6% of time when present
• Phage (with cluster) where this start called: ActinUp_33 (K1), Adonis_33 (K1), Ageofdapage_33 (K1), Anma_33 (K1), Apocalypse_33 (K1), Asayake_33 (K1), BGlluviae_33 (K1), BaghaKamala_33 (K1), Beezoo_33 (K1), Bella96_33 (K1), Belladonna_33 (K1), Bern_33 (K1), Blizzard_33 (K1), Boiiii_33 (K1), CREW_33 (K1), CallaLilly_33 (K1), Capricorn_33 (K1), CaseJules_33 (K1), CheetoDust_33 (K1), Clipper_33 (K1), CrimD_33 (K1), Curiosium_34 (K1), Dalmuri_33 (K1), DartGoblin_33 (K1), Deby_33 (K1), Devera_33 (K1), Dole_33 (K1), DrHayes_33 (K1), Durfee_33 (K1), Efra2_33 (K1), Emerson_33 (K1), Ganymede_34 (K1), Geraldini_33 (K1), Guanica15_33 (K1), HedwigODU_33 (K1), Homura_33 (K1), Hyperbowlee_33 (K1), Illumine_33 (K1), Inky_33 (K1), Jarvi_33 (K1), Jayhawk_33 (K1), Jeckyll_33 (K1), Joy99_33 (K1), Kheparia_35 (K1), LaterM_33 (K1), LindNT_33 (K1), Llorens_33 (K1), Lokum_33 (K1), Lunahalos_33 (K1), MacKat_33 (K1), MeaningOfLife_33 (K1), Megsy_33 (K1), Murucutumbu_33 (K1), Mynx_33 (K1), Padfoot_33 (K1), Padpat_33 (K1), Peel_33 (K1), Piatt_33 (K1), Pisa4_32 (K1), Pokerus_32 (K1), Prithvi_33 (K1), QuincyRose_32 (K1), Ramen_33 (K1), Rando14_33 (K5), Rapunzel97_33 (K1), Rosmarinus_33 (K1), SamuelLPlaqson_33 (K1), ShiaSurprise_33 (K1), Slimphazie_33 (K1), Spock_33 (K1), Stinson_34 (K1), Tachez_33 (K1), TaiwanKao_34 (K1), TingHuaYa_33 (K1), TiniBug_33 (K1), Tiri_33 (K1), Topper_33 (K1), TreyKay_33 (K1), TruffulaTree_33 (K1), Twitch_33 (K1), Urkel_33 (K1), Veliki_33 (K1), YoureAdopted_32 (K1), Yunkel11_33 (K1), Zabiza_33 (K1), Zavala_33 (K1),

Start 8:
• Found in 71 of 131 (54.2%) of genes in pham
• Manual Annotations of this start: 7 of 123
• Called 11.3% of time when present
• Phage (with cluster) where this start called: Adephagia_33 (K1), AlishaPH_33 (K1), Angelica_33 (K1), Atiba_33 (K1), BEEST_33 (K1), BarrelRoll_33 (K1), Pisa1_32 (K1), Sulley_33 (K1),

Start 9:
• Found in 11 of 131 (8.4%) of genes in pham
• Manual Annotations of this start: 9 of 123
• Called 81.8% of time when present
• Phage (with cluster) where this start called: Hurricane_34 (K3), Keshu_34 (K3), Lea83_34 (K3), MacnCheese_34 (K3), Pharb_32 (K3), Pixie_33 (K3), ShedlockHolmes_34 (K3), TBond007_33 (K3), TribleTrouble_32 (K3),

Start 10:
• Found in 26 of 131 (19.8%) of genes in pham
• Manual Annotations of this start: 24 of 123
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelie_29 (K1), Amgine_31 (K6), Amohnition_32 (K6), Applecrisp_31 (K6), Biglebops_29 (K1), DarthP_32 (K6), Ekdilam_30 (K6), Ellie_30 (K6), Enkosi_29 (K1), Fefferhead_32 (K6), Hammy_32 (K6), Lavahound_31 (K6), LilPharaoh_29 (K1), Mdavu_29 (K1), Nergal_29 (AG), Nibb_32 (K1), Nikao_29 (K1), November_31 (K6), Nutello_29 (K1),

SgtBeansprout_29 (K1), SirPhilip_32 (K6), Syra333_33 (K6), Teejan_29 (K1), Torres_29 (K1), Trice_29 (K1), Yuna_34 (K6),

Start 12:
• Found in 73 of 131 (55.7%) of genes in pham
• Manual Annotations of this start: 2 of 123
• Called 2.7% of time when present
• Phage (with cluster) where this start called: Anaya_34 (K1), JAWS_33 (K1),

Summary by clusters:

There are 5 clusters represented in this pham: K3, K5, K1, K6, AG,

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

Info for manual annotations of cluster K1:
•Start number 7 was manually annotated 80 times for cluster K1.
•Start number 8 was manually annotated 7 times for cluster K1.
•Start number 10 was manually annotated 10 times for cluster K1.
•Start number 12 was manually annotated 2 times for cluster K1.

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

Info for manual annotations of cluster K5:
•Start number 7 was manually annotated 1 time for cluster K5.

Info for manual annotations of cluster K6:
•Start number 10 was manually annotated 13 times for cluster K6.

Gene Information:

Gene: ActinUp_33 Start: 27783, Stop: 28127, Start Num: 7
Candidate Starts for ActinUp_33:
(Start: 7 @27783 has 81 MA's), (Start: 8 @27789 has 7 MA's), (Start: 12 @27801 has 2 MA's), (16, 27822), (36, 28008), (43, 28056), (44, 28059), (46, 28092), (48, 28113), (49, 28116),

Gene: Adephagia_33 Start: 27786, Stop: 28124, Start Num: 8
Candidate Starts for Adephagia_33:
(Start: 7 @27780 has 81 MA's), (Start: 8 @27786 has 7 MA's), (Start: 12 @27798 has 2 MA's), (16, 27819), (36, 28005), (43, 28053), (44, 28056), (46, 28089), (48, 28110), (49, 28113),

Gene: Adonis_33 Start: 27795, Stop: 28139, Start Num: 7
Candidate Starts for Adonis_33:
(Start: 7 @27795 has 81 MA's), (Start: 8 @27801 has 7 MA's), (11, 27810), (Start: 12 @27813 has 2 MA's), (16, 27834), (36, 28020), (43, 28068), (44, 28071), (46, 28104), (48, 28125), (49, 28128),

Gene: Ageofdapage_33 Start: 27723, Stop: 28064, Start Num: 7
Candidate Starts for Ageofdapage_33:

(Start: 7 @27723 has 81 MA's), (20, 27786), (30, 27849), (34, 27936), (35, 27939), (37, 27957), (39, 27963), (48, 28050), (49, 28053),

Gene: AlishaPH_33 Start: 27779, Stop: 28117, Start Num: 8
Candidate Starts for AlishaPH_33:
(Start: 7 @27773 has 81 MA's), (Start: 8 @27779 has 7 MA's), (Start: 12 @27791 has 2 MA's), (16, 27812), (36, 27998), (43, 28046), (44, 28049), (46, 28082), (48, 28103), (49, 28106),

Gene: Amelie_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Amelie_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: Amgine_31 Start: 27748, Stop: 28086, Start Num: 10
Candidate Starts for Amgine_31:
(Start: 10 @27748 has 24 MA's), (16, 27790), (18, 27808), (19, 27811), (26, 27862), (31, 27892), (43, 28012), (47, 28054), (49, 28072), (50, 28075),

Gene: Amohnition_32 Start: 28182, Stop: 28520, Start Num: 10
Candidate Starts for Amohnition_32:
(Start: 10 @28182 has 24 MA's), (24, 28266), (26, 28296), (31, 28326), (43, 28446), (47, 28488), (49, 28506), (50, 28509),

Gene: Anaya_34 Start: 27826, Stop: 28152, Start Num: 12
Candidate Starts for Anaya_34:
(6, 27673), (Start: 7 @27808 has 81 MA's), (Start: 12 @27826 has 2 MA's), (16, 27847), (32, 27946), (36, 28033), (43, 28081), (44, 28084), (46, 28117), (48, 28138), (49, 28141),

Gene: Angelica_33 Start: 27736, Stop: 28074, Start Num: 8
Candidate Starts for Angelica_33:
(Start: 7 @27730 has 81 MA's), (Start: 8 @27736 has 7 MA's), (Start: 12 @27748 has 2 MA's), (16, 27769), (36, 27955), (43, 28003), (44, 28006), (46, 28039), (48, 28060), (49, 28063),

Gene: Anma_33 Start: 27706, Stop: 28068, Start Num: 7
Candidate Starts for Anma_33:
(Start: 7 @27706 has 81 MA's), (17, 27763), (32, 27868), (40, 27964), (43, 27982), (44, 27985), (46, 28018), (48, 28039), (49, 28042),

Gene: Apocalypse_33 Start: 27751, Stop: 28095, Start Num: 7
Candidate Starts for Apocalypse_33:
(Start: 7 @27751 has 81 MA's), (Start: 8 @27757 has 7 MA's), (Start: 12 @27769 has 2 MA's), (16, 27790), (36, 27976), (43, 28024), (44, 28027), (46, 28060), (48, 28081), (49, 28084),

Gene: Applecrisp_31 Start: 28170, Stop: 28508, Start Num: 10
Candidate Starts for Applecrisp_31:
(Start: 10 @28170 has 24 MA's), (16, 28212), (18, 28230), (19, 28233), (26, 28284), (31, 28314), (43, 28434), (47, 28476), (49, 28494), (50, 28497),

Gene: Asayake_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Asayake_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Atiba_33 Start: 27749, Stop: 28087, Start Num: 8
Candidate Starts for Atiba_33:
(Start: 7 @27743 has 81 MA's), (Start: 8 @27749 has 7 MA's), (Start: 12 @27761 has 2 MA's), (16, 27782), (36, 27968), (43, 28016), (44, 28019), (46, 28052), (48, 28073), (49, 28076),

Gene: BEEST_33 Start: 27820, Stop: 28158, Start Num: 8
Candidate Starts for BEEST_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: BGlluviae_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for BGlluviae_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: BaghaKamala_33 Start: 27743, Stop: 28087, Start Num: 7
Candidate Starts for BaghaKamala_33:
(Start: 7 @27743 has 81 MA's), (Start: 8 @27749 has 7 MA's), (Start: 12 @27761 has 2 MA's), (16, 27782), (36, 27968), (43, 28016), (44, 28019), (46, 28052), (48, 28073), (49, 28076),

Gene: BarrelRoll_33 Start: 27772, Stop: 28110, Start Num: 8
Candidate Starts for BarrelRoll_33:
(Start: 7 @27766 has 81 MA's), (Start: 8 @27772 has 7 MA's), (Start: 12 @27784 has 2 MA's), (16, 27805), (36, 27991), (43, 28039), (44, 28042), (46, 28075), (48, 28096), (49, 28099),

Gene: Beezoo_33 Start: 27791, Stop: 28135, Start Num: 7
Candidate Starts for Beezoo_33:
(Start: 7 @27791 has 81 MA's), (Start: 8 @27797 has 7 MA's), (Start: 12 @27809 has 2 MA's), (16, 27830), (36, 28016), (43, 28064), (44, 28067), (46, 28100), (48, 28121), (49, 28124),

Gene: Bella96_33 Start: 27684, Stop: 28028, Start Num: 7
Candidate Starts for Bella96_33:
(Start: 7 @27684 has 81 MA's), (Start: 8 @27690 has 7 MA's), (Start: 12 @27702 has 2 MA's), (16, 27723), (36, 27909), (43, 27957), (44, 27960), (46, 27993), (48, 28014), (49, 28017),

Gene: Belladonna_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Belladonna_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Bern_33 Start: 27723, Stop: 28067, Start Num: 7
Candidate Starts for Bern_33:
(Start: 7 @27723 has 81 MA's), (Start: 8 @27729 has 7 MA's), (Start: 12 @27741 has 2 MA's), (16, 27762), (43, 27996), (44, 27999), (46, 28032), (48, 28053), (49, 28056),

Gene: Biglebops_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Biglebops_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: Blizzard_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Blizzard_33:

(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Boiiii_33 Start: 27816, Stop: 28160, Start Num: 7
Candidate Starts for Boiiii_33:
(Start: 7 @27816 has 81 MA's), (Start: 8 @27822 has 7 MA's), (Start: 12 @27834 has 2 MA's), (16, 27855), (36, 28041), (43, 28089), (44, 28092), (46, 28125), (48, 28146), (49, 28149),

Gene: CREW_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for CREW_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: CallaLilly_33 Start: 27737, Stop: 28081, Start Num: 7
Candidate Starts for CallaLilly_33:
(Start: 7 @27737 has 81 MA's), (Start: 8 @27743 has 7 MA's), (Start: 12 @27755 has 2 MA's), (16, 27776), (36, 27962), (43, 28010), (44, 28013), (46, 28046), (48, 28067), (49, 28070),

Gene: Capricorn_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Capricorn_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: CaseJules_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for CaseJules_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: CheetoDust_33 Start: 27791, Stop: 28135, Start Num: 7
Candidate Starts for CheetoDust_33:
(Start: 7 @27791 has 81 MA's), (Start: 8 @27797 has 7 MA's), (Start: 12 @27809 has 2 MA's), (16, 27830), (36, 28016), (43, 28064), (44, 28067), (46, 28100), (48, 28121), (49, 28124),

Gene: Clipper_33 Start: 27791, Stop: 28135, Start Num: 7
Candidate Starts for Clipper_33:
(Start: 7 @27791 has 81 MA's), (Start: 8 @27797 has 7 MA's), (Start: 12 @27809 has 2 MA's), (16, 27830), (36, 28016), (43, 28064), (44, 28067), (46, 28100), (48, 28121), (49, 28124),

Gene: CrimD_33 Start: 27751, Stop: 28092, Start Num: 7
Candidate Starts for CrimD_33:
(Start: 7 @27751 has 81 MA's), (20, 27814), (25, 27832), (30, 27877), (34, 27964), (35, 27967), (37, 27985), (39, 27991), (48, 28078), (49, 28081),

Gene: Curiosium_34 Start: 27577, Stop: 27918, Start Num: 7
Candidate Starts for Curiosium_34:
(Start: 7 @27577 has 81 MA's), (11, 27589), (13, 27598), (26, 27685), (30, 27703), (32, 27712), (33, 27742), (34, 27790), (48, 27904), (49, 27907),

Gene: Dalmuri_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Dalmuri_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: DartGoblin_33 Start: 27678, Stop: 28022, Start Num: 7
Candidate Starts for DartGoblin_33:
(Start: 7 @27678 has 81 MA's), (Start: 8 @27684 has 7 MA's), (Start: 12 @27696 has 2 MA's), (16, 27717), (36, 27903), (43, 27951), (44, 27954), (46, 27987), (48, 28008), (49, 28011),

Gene: DarthP_32 Start: 28104, Stop: 28442, Start Num: 10
Candidate Starts for DarthP_32:
(Start: 10 @28104 has 24 MA's), (24, 28188), (26, 28218), (31, 28248), (43, 28368), (47, 28410), (49, 28428), (50, 28431),

Gene: Deby_33 Start: 27748, Stop: 28092, Start Num: 7
Candidate Starts for Deby_33:
(Start: 7 @27748 has 81 MA's), (Start: 8 @27754 has 7 MA's), (Start: 12 @27766 has 2 MA's), (16, 27787), (36, 27973), (43, 28021), (44, 28024), (46, 28057), (48, 28078), (49, 28081),

Gene: Devera_33 Start: 27791, Stop: 28153, Start Num: 7
Candidate Starts for Devera_33:
(Start: 7 @27791 has 81 MA's), (17, 27848), (21, 27878), (32, 27953), (40, 28049), (41, 28052), (43, 28067), (44, 28070), (46, 28103), (49, 28127),

Gene: Dole_33 Start: 27793, Stop: 28155, Start Num: 7
Candidate Starts for Dole_33:
(Start: 7 @27793 has 81 MA's), (17, 27850), (21, 27880), (32, 27955), (40, 28051), (41, 28054), (43, 28069), (44, 28072), (46, 28105), (49, 28129),

Gene: DrHayes_33 Start: 27706, Stop: 28068, Start Num: 7
Candidate Starts for DrHayes_33:
(Start: 7 @27706 has 81 MA's), (17, 27763), (32, 27868), (40, 27964), (43, 27982), (44, 27985), (46, 28018), (48, 28039), (49, 28042),

Gene: Durfee_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Durfee_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Efra2_33 Start: 27031, Stop: 27393, Start Num: 7
Candidate Starts for Efra2_33:
(5, 26842), (Start: 7 @27031 has 81 MA's), (17, 27088), (21, 27118), (29, 27181), (32, 27193), (33, 27223), (40, 27289), (41, 27292), (43, 27307), (44, 27310), (46, 27343), (49, 27367),

Gene: Ekdilam_30 Start: 27859, Stop: 28200, Start Num: 10
Candidate Starts for Ekdilam_30:
(Start: 10 @27859 has 24 MA's), (26, 27976), (31, 28006), (43, 28126), (47, 28168), (49, 28186), (50, 28189),

Gene: Ellie_30 Start: 27861, Stop: 28199, Start Num: 10
Candidate Starts for Ellie_30:
(Start: 10 @27861 has 24 MA's), (16, 27903), (18, 27921), (19, 27924), (26, 27975), (31, 28005), (43, 28125), (47, 28167), (49, 28185), (50, 28188),

Gene: Emerson_33 Start: 27774, Stop: 28118, Start Num: 7
Candidate Starts for Emerson_33:

(Start: 7 @27774 has 81 MA's), (Start: 8 @27780 has 7 MA's), (Start: 12 @27792 has 2 MA's), (16, 27813), (36, 27999), (43, 28047), (44, 28050), (46, 28083), (48, 28104), (49, 28107),

Gene: Enkosi_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Enkosi_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: Fefferhead_32 Start: 28061, Stop: 28399, Start Num: 10
Candidate Starts for Fefferhead_32:
(Start: 10 @28061 has 24 MA's), (16, 28103), (18, 28121), (19, 28124), (26, 28175), (31, 28205), (43, 28325), (47, 28367), (49, 28385), (50, 28388),

Gene: Ganymede_34 Start: 27803, Stop: 28147, Start Num: 7
Candidate Starts for Ganymede_34:
(6, 27668), (Start: 7 @27803 has 81 MA's), (Start: 8 @27809 has 7 MA's), (11, 27818), (Start: 12 @27821 has 2 MA's), (16, 27842), (36, 28028), (37, 28040), (43, 28076), (44, 28079), (46, 28112), (48, 28133), (49, 28136),

Gene: Geraldini_33 Start: 27791, Stop: 28135, Start Num: 7
Candidate Starts for Geraldini_33:
(Start: 7 @27791 has 81 MA's), (Start: 8 @27797 has 7 MA's), (Start: 12 @27809 has 2 MA's), (16, 27830), (36, 28016), (43, 28064), (44, 28067), (46, 28100), (48, 28121), (49, 28124),

Gene: Guanica15_33 Start: 27048, Stop: 27410, Start Num: 7
Candidate Starts for Guanica15_33:
(5, 26859), (Start: 7 @27048 has 81 MA's), (17, 27105), (21, 27135), (29, 27198), (32, 27210), (33, 27240), (40, 27306), (41, 27309), (43, 27324), (44, 27327), (46, 27360), (49, 27384),

Gene: Hammy_32 Start: 28095, Stop: 28433, Start Num: 10
Candidate Starts for Hammy_32:
(Start: 10 @28095 has 24 MA's), (24, 28179), (26, 28209), (31, 28239), (43, 28359), (47, 28401), (49, 28419), (50, 28422),

Gene: HedwigODU_33 Start: 27783, Stop: 28127, Start Num: 7
Candidate Starts for HedwigODU_33:
(Start: 7 @27783 has 81 MA's), (Start: 8 @27789 has 7 MA's), (Start: 12 @27801 has 2 MA's), (16, 27822), (36, 28008), (43, 28056), (44, 28059), (46, 28092), (48, 28113), (49, 28116),

Gene: Homura_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Homura_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Hurricane_34 Start: 28638, Stop: 28985, Start Num: 9
Candidate Starts for Hurricane_34:
(4, 28428), (5, 28455), (6, 28506), (Start: 9 @28638 has 9 MA's), (19, 28689), (40, 28893), (41, 28896), (43, 28911), (44, 28914), (45, 28938), (47, 28953), (49, 28971),

Gene: Hyperbowlee_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Hyperbowlee_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Illumine_33 Start: 27793, Stop: 28155, Start Num: 7
Candidate Starts for Illumine_33:
(Start: 7 @27793 has 81 MA's), (17, 27850), (21, 27880), (32, 27955), (40, 28051), (41, 28054), (43, 28069), (44, 28072), (46, 28105), (49, 28129),

Gene: Inky_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Inky_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: JAWS_33 Start: 27786, Stop: 28112, Start Num: 12
Candidate Starts for JAWS_33:
(Start: 7 @27768 has 81 MA's), (Start: 8 @27774 has 7 MA's), (Start: 12 @27786 has 2 MA's), (16, 27807), (36, 27993), (43, 28041), (44, 28044), (46, 28077), (48, 28098), (49, 28101),

Gene: Jarvi_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Jarvi_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Jayhawk_33 Start: 27781, Stop: 28125, Start Num: 7
Candidate Starts for Jayhawk_33:
(Start: 7 @27781 has 81 MA's), (Start: 8 @27787 has 7 MA's), (Start: 12 @27799 has 2 MA's), (16, 27820), (36, 28006), (43, 28054), (44, 28057), (46, 28090), (48, 28111), (49, 28114),

Gene: Jeckyll_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Jeckyll_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Joy99_33 Start: 27743, Stop: 28087, Start Num: 7
Candidate Starts for Joy99_33:
(Start: 7 @27743 has 81 MA's), (Start: 8 @27749 has 7 MA's), (Start: 12 @27761 has 2 MA's), (16, 27782), (36, 27968), (43, 28016), (44, 28019), (46, 28052), (48, 28073), (49, 28076),

Gene: Keshu_34 Start: 28626, Stop: 28973, Start Num: 9
Candidate Starts for Keshu_34:
(1, 28275), (2, 28338), (5, 28443), (6, 28494), (Start: 9 @28626 has 9 MA's), (32, 28764), (40, 28881), (41, 28884), (43, 28899), (44, 28902), (45, 28926), (47, 28941), (49, 28959),

Gene: Kheparia_35 Start: 27723, Stop: 28067, Start Num: 7
Candidate Starts for Kheparia_35:
(Start: 7 @27723 has 81 MA's), (Start: 8 @27729 has 7 MA's), (Start: 12 @27741 has 2 MA's), (16, 27762), (43, 27996), (44, 27999), (46, 28032), (48, 28053), (49, 28056),

Gene: LaterM_33 Start: 27710, Stop: 28072, Start Num: 7
Candidate Starts for LaterM_33:
(Start: 7 @27710 has 81 MA's), (17, 27767), (21, 27797), (32, 27872), (40, 27968), (41, 27971), (43, 27986), (44, 27989), (46, 28022), (49, 28046),

Gene: Lavahound_31 Start: 27753, Stop: 28091, Start Num: 10
Candidate Starts for Lavahound_31:

(Start: 10 @27753 has 24 MA's), (16, 27795), (18, 27813), (19, 27816), (26, 27867), (31, 27897), (43, 28017), (47, 28059), (49, 28077), (50, 28080),

Gene: Lea83_34 Start: 28696, Stop: 29043, Start Num: 9
Candidate Starts for Lea83_34:
(4, 28486), (5, 28513), (6, 28564), (Start: 9 @28696 has 9 MA's), (40, 28951), (41, 28954), (43, 28969), (44, 28972), (46, 29005), (47, 29011), (49, 29029),

Gene: LilPharaoh_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for LilPharaoh_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: LindNT_33 Start: 27747, Stop: 28088, Start Num: 7
Candidate Starts for LindNT_33:
(Start: 7 @27747 has 81 MA's), (20, 27810), (30, 27873), (34, 27960), (35, 27963), (37, 27981), (39, 27987), (48, 28074), (49, 28077),

Gene: Llorens_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Llorens_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Lokum_33 Start: 27815, Stop: 28159, Start Num: 7
Candidate Starts for Lokum_33:
(Start: 7 @27815 has 81 MA's), (Start: 8 @27821 has 7 MA's), (Start: 12 @27833 has 2 MA's), (16, 27854), (36, 28040), (43, 28088), (44, 28091), (46, 28124), (48, 28145), (49, 28148),

Gene: Lunahalos_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Lunahalos_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: MacKat_33 Start: 27791, Stop: 28135, Start Num: 7
Candidate Starts for MacKat_33:
(Start: 7 @27791 has 81 MA's), (Start: 8 @27797 has 7 MA's), (Start: 12 @27809 has 2 MA's), (16, 27830), (36, 28016), (43, 28064), (44, 28067), (46, 28100), (48, 28121), (49, 28124),

Gene: MacnCheese_34 Start: 28679, Stop: 29026, Start Num: 9
Candidate Starts for MacnCheese_34:
(Start: 9 @28679 has 9 MA's), (19, 28730), (32, 28817), (38, 28919), (40, 28934), (41, 28937), (43, 28952), (44, 28955), (47, 28994), (49, 29012),

Gene: Mdavu_29 Start: 27190, Stop: 27537, Start Num: 10
Candidate Starts for Mdavu_29:
(Start: 10 @27190 has 24 MA's), (11, 27205), (15, 27223), (18, 27247), (24, 27271), (32, 27337), (40, 27433), (41, 27436), (43, 27451), (44, 27454), (46, 27487), (47, 27493), (49, 27511),

Gene: MeaningOfLife_33 Start: 27759, Stop: 28103, Start Num: 7
Candidate Starts for MeaningOfLife_33:
(6, 27624), (Start: 7 @27759 has 81 MA's), (Start: 8 @27765 has 7 MA's), (11, 27774), (Start: 12 @27777 has 2 MA's), (16, 27798), (36, 27984), (43, 28032), (44, 28035), (46, 28068), (48, 28089), (49, 28092),

Gene: Megsy_33 Start: 27750, Stop: 28091, Start Num: 7
Candidate Starts for Megsy_33:
(Start: 7 @27750 has 81 MA's), (20, 27813), (30, 27876), (34, 27963), (35, 27966), (37, 27984), (39, 27990), (48, 28077), (49, 28080),

Gene: Murucutumbu_33 Start: 27729, Stop: 28091, Start Num: 7
Candidate Starts for Murucutumbu_33:
(Start: 7 @27729 has 81 MA's), (17, 27786), (21, 27816), (32, 27891), (40, 27987), (41, 27990), (43, 28005), (44, 28008), (46, 28041), (47, 28047), (49, 28065),

Gene: Mynx_33 Start: 27797, Stop: 28141, Start Num: 7
Candidate Starts for Mynx_33:
(Start: 7 @27797 has 81 MA's), (Start: 8 @27803 has 7 MA's), (Start: 12 @27815 has 2 MA's), (16, 27836), (36, 28022), (43, 28070), (44, 28073), (46, 28106), (48, 28127), (49, 28130),

Gene: Nergal_29 Start: 25495, Stop: 25839, Start Num: 10
Candidate Starts for Nergal_29:
(Start: 9 @25492 has 9 MA's), (Start: 10 @25495 has 24 MA's), (27, 25615), (29, 25636), (41, 25747), (44, 25765), (46, 25798),

Gene: Nibb_32 Start: 26939, Stop: 27289, Start Num: 10
Candidate Starts for Nibb_32:
(Start: 9 @26936 has 9 MA's), (Start: 10 @26939 has 24 MA's), (15, 26978), (24, 27026), (25, 27029), (40, 27188), (41, 27191), (43, 27206), (44, 27209), (47, 27248), (49, 27266),

Gene: Nikao_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Nikao_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: November_31 Start: 28020, Stop: 28361, Start Num: 10
Candidate Starts for November_31:
(Start: 10 @28020 has 24 MA's), (24, 28107), (26, 28137), (31, 28167), (43, 28287), (47, 28329), (49, 28347), (50, 28350),

Gene: Nutello_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Nutello_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: Padfoot_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Padfoot_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Padpat_33 Start: 27774, Stop: 28118, Start Num: 7
Candidate Starts for Padpat_33:
(Start: 7 @27774 has 81 MA's), (Start: 8 @27780 has 7 MA's), (Start: 12 @27792 has 2 MA's), (16, 27813), (36, 27999), (43, 28047), (44, 28050), (46, 28083), (48, 28104), (49, 28107),

Gene: Peel_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Peel_33:

(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Pharb_32 Start: 27941, Stop: 28288, Start Num: 9
Candidate Starts for Pharb_32:
(6, 27815), (Start: 9 @27941 has 9 MA's), (19, 27992), (32, 28079), (40, 28196), (41, 28199), (43, 28214), (44, 28217), (46, 28250), (47, 28256), (49, 28274),

Gene: Piatt_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Piatt_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Pisa1_32 Start: 27815, Stop: 28153, Start Num: 8
Candidate Starts for Pisa1_32:
(Start: 7 @27809 has 81 MA's), (Start: 8 @27815 has 7 MA's), (Start: 12 @27827 has 2 MA's), (16, 27848), (27, 27923), (36, 28034), (43, 28082), (44, 28085), (46, 28118), (48, 28139), (49, 28142),

Gene: Pisa4_32 Start: 27809, Stop: 28153, Start Num: 7
Candidate Starts for Pisa4_32:
(Start: 7 @27809 has 81 MA's), (Start: 8 @27815 has 7 MA's), (Start: 12 @27827 has 2 MA's), (16, 27848), (27, 27923), (36, 28034), (43, 28082), (44, 28085), (46, 28118), (48, 28139), (49, 28142),

Gene: Pixie_33 Start: 28180, Stop: 28527, Start Num: 9
Candidate Starts for Pixie_33:
(Start: 9 @28180 has 9 MA's), (32, 28318), (40, 28435), (41, 28438), (43, 28453), (44, 28456), (45, 28480), (47, 28495), (49, 28513),

Gene: Pokerus_32 Start: 27731, Stop: 28075, Start Num: 7
Candidate Starts for Pokerus_32:
(Start: 7 @27731 has 81 MA's), (Start: 8 @27737 has 7 MA's), (Start: 12 @27749 has 2 MA's), (16, 27770), (36, 27956), (43, 28004), (44, 28007), (46, 28040), (48, 28061), (49, 28064),

Gene: Prithvi_33 Start: 27747, Stop: 28088, Start Num: 7
Candidate Starts for Prithvi_33:
(Start: 7 @27747 has 81 MA's), (20, 27810), (30, 27873), (34, 27960), (35, 27963), (37, 27981), (39, 27987), (48, 28074), (49, 28077),

Gene: QuincyRose_32 Start: 27803, Stop: 28147, Start Num: 7
Candidate Starts for QuincyRose_32:
(6, 27668), (Start: 7 @27803 has 81 MA's), (Start: 8 @27809 has 7 MA's), (11, 27818), (Start: 12 @27821 has 2 MA's), (16, 27842), (36, 28028), (37, 28040), (43, 28076), (44, 28079), (46, 28112), (48, 28133), (49, 28136),

Gene: Ramen_33 Start: 27780, Stop: 28124, Start Num: 7
Candidate Starts for Ramen_33:
(Start: 7 @27780 has 81 MA's), (Start: 8 @27786 has 7 MA's), (Start: 12 @27798 has 2 MA's), (16, 27819), (36, 28005), (43, 28053), (44, 28056), (46, 28089), (48, 28110), (49, 28113),

Gene: Rando14_33 Start: 27209, Stop: 27553, Start Num: 7
Candidate Starts for Rando14_33:
(Start: 7 @27209 has 81 MA's), (11, 27224), (14, 27239), (19, 27269), (21, 27281), (23, 27287), (27, 27323), (28, 27332), (29, 27335), (33, 27377), (43, 27482), (44, 27485), (46, 27518), (47, 27524), (48,

27539),

Gene: Rapunzel97_33 Start: 27781, Stop: 28125, Start Num: 7
Candidate Starts for Rapunzel97_33:
(Start: 7 @27781 has 81 MA's), (Start: 8 @27787 has 7 MA's), (Start: 12 @27799 has 2 MA's), (16, 27820), (36, 28006), (43, 28054), (44, 28057), (46, 28090), (48, 28111), (49, 28114),

Gene: Rosmarinus_33 Start: 27802, Stop: 28146, Start Num: 7
Candidate Starts for Rosmarinus_33:
(Start: 7 @27802 has 81 MA's), (Start: 8 @27808 has 7 MA's), (Start: 12 @27820 has 2 MA's), (16, 27841), (36, 28027), (43, 28075), (44, 28078), (46, 28111), (48, 28132), (49, 28135),

Gene: SamuelLPlaqson_33 Start: 27706, Stop: 28068, Start Num: 7
Candidate Starts for SamuelLPlaqson_33:
(Start: 7 @27706 has 81 MA's), (17, 27763), (32, 27868), (40, 27964), (43, 27982), (44, 27985), (46, 28018), (48, 28039), (49, 28042),

Gene: SgtBeansprout_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for SgtBeansprout_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: ShedlockHolmes_34 Start: 28702, Stop: 29049, Start Num: 9
Candidate Starts for ShedlockHolmes_34:
(4, 28492), (5, 28519), (6, 28570), (Start: 9 @28702 has 9 MA's), (19, 28753), (25, 28777), (40, 28957), (41, 28960), (43, 28975), (44, 28978), (47, 29017), (49, 29035),

Gene: ShiaSurprise_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for ShiaSurprise_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: SirPhilip_32 Start: 26577, Stop: 26924, Start Num: 10
Candidate Starts for SirPhilip_32:
(3, 26346), (5, 26376), (Start: 10 @26577 has 24 MA's), (32, 26727), (40, 26823), (41, 26826), (43, 26841), (44, 26844), (46, 26877), (47, 26883), (48, 26898), (49, 26901),

Gene: Slimphazie_33 Start: 27781, Stop: 28125, Start Num: 7
Candidate Starts for Slimphazie_33:
(Start: 7 @27781 has 81 MA's), (Start: 8 @27787 has 7 MA's), (Start: 12 @27799 has 2 MA's), (16, 27820), (36, 28006), (43, 28054), (44, 28057), (46, 28090), (48, 28111), (49, 28114),

Gene: Spock_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Spock_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Stinson_34 Start: 28016, Stop: 28360, Start Num: 7
Candidate Starts for Stinson_34:
(Start: 7 @28016 has 81 MA's), (Start: 8 @28022 has 7 MA's), (Start: 12 @28034 has 2 MA's), (16, 28055), (36, 28241), (43, 28289), (44, 28292), (46, 28325), (48, 28346), (49, 28349),

Gene: Sulley_33 Start: 27753, Stop: 28091, Start Num: 8

Candidate Starts for Sulley_33:
(Start: 7 @27747 has 81 MA's), (Start: 8 @27753 has 7 MA's), (Start: 12 @27765 has 2 MA's), (16, 27786), (36, 27972), (43, 28020), (44, 28023), (46, 28056), (48, 28077), (49, 28080),

Gene: Syra333_33 Start: 26959, Stop: 27312, Start Num: 10
Candidate Starts for Syra333_33:
(Start: 10 @26959 has 24 MA's), (11, 26974), (16, 26998), (32, 27106), (39, 27190), (40, 27202), (41, 27205), (42, 27211), (43, 27220), (44, 27223), (46, 27256), (47, 27262), (49, 27280),

Gene: TBond007_33 Start: 28179, Stop: 28526, Start Num: 9
Candidate Starts for TBond007_33:
(4, 27969), (5, 27996), (6, 28047), (Start: 9 @28179 has 9 MA's), (32, 28317), (40, 28434), (41, 28437), (43, 28452), (44, 28455), (45, 28479), (47, 28494), (49, 28512),

Gene: Tachez_33 Start: 27743, Stop: 28087, Start Num: 7
Candidate Starts for Tachez_33:
(Start: 7 @27743 has 81 MA's), (Start: 8 @27749 has 7 MA's), (Start: 12 @27761 has 2 MA's), (16, 27782), (36, 27968), (43, 28016), (44, 28019), (46, 28052), (48, 28073), (49, 28076),

Gene: TaiwanKao_34 Start: 27747, Stop: 28088, Start Num: 7
Candidate Starts for TaiwanKao_34:
(Start: 7 @27747 has 81 MA's), (20, 27810), (30, 27873), (34, 27960), (35, 27963), (37, 27981), (39, 27987), (48, 28074), (49, 28077),

Gene: Teejan_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Teejan_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: TingHuaYa_33 Start: 26915, Stop: 27259, Start Num: 7
Candidate Starts for TingHuaYa_33:
(Start: 7 @26915 has 81 MA's), (36, 27140), (43, 27188), (44, 27191), (46, 27224), (48, 27245), (49, 27248),

Gene: TiniBug_33 Start: 27702, Stop: 28064, Start Num: 7
Candidate Starts for TiniBug_33:
(Start: 7 @27702 has 81 MA's), (17, 27759), (32, 27864), (40, 27960), (43, 27978), (44, 27981), (46, 28014), (49, 28038), (51, 28053),

Gene: Tiri_33 Start: 27795, Stop: 28139, Start Num: 7
Candidate Starts for Tiri_33:
(6, 27660), (Start: 7 @27795 has 81 MA's), (Start: 12 @27813 has 2 MA's), (16, 27834), (32, 27933), (36, 28020), (43, 28068), (44, 28071), (46, 28104), (48, 28125), (49, 28128),

Gene: Topper_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Topper_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Torres_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Torres_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: TreyKay_33 Start: 27747, Stop: 28088, Start Num: 7
Candidate Starts for TreyKay_33:
(Start: 7 @27747 has 81 MA's), (20, 27810), (30, 27873), (34, 27960), (35, 27963), (37, 27981), (39, 27987), (48, 28074), (49, 28077),

Gene: TribleTrouble_32 Start: 28236, Stop: 28583, Start Num: 9
Candidate Starts for TribleTrouble_32:
(Start: 9 @28236 has 9 MA's), (24, 28308), (40, 28491), (41, 28494), (43, 28509), (44, 28512), (45, 28536), (47, 28551), (49, 28569),

Gene: Trice_29 Start: 27202, Stop: 27549, Start Num: 10
Candidate Starts for Trice_29:
(Start: 10 @27202 has 24 MA's), (11, 27217), (15, 27235), (18, 27259), (24, 27283), (32, 27349), (40, 27445), (41, 27448), (43, 27463), (44, 27466), (46, 27499), (47, 27505), (49, 27523),

Gene: TruffulaTree_33 Start: 27777, Stop: 28121, Start Num: 7
Candidate Starts for TruffulaTree_33:
(Start: 7 @27777 has 81 MA's), (Start: 8 @27783 has 7 MA's), (Start: 12 @27795 has 2 MA's), (16, 27816), (36, 28002), (43, 28050), (44, 28053), (46, 28086), (48, 28107), (49, 28110),

Gene: Twitch_33 Start: 27814, Stop: 28158, Start Num: 7
Candidate Starts for Twitch_33:
(Start: 7 @27814 has 81 MA's), (Start: 8 @27820 has 7 MA's), (Start: 12 @27832 has 2 MA's), (16, 27853), (36, 28039), (43, 28087), (44, 28090), (46, 28123), (48, 28144), (49, 28147),

Gene: Urkel_33 Start: 27706, Stop: 28068, Start Num: 7
Candidate Starts for Urkel_33:
(Start: 7 @27706 has 81 MA's), (17, 27763), (32, 27868), (40, 27964), (43, 27982), (44, 27985), (46, 28018), (48, 28039), (49, 28042),

Gene: Veliki_33 Start: 27817, Stop: 28161, Start Num: 7
Candidate Starts for Veliki_33:
(Start: 7 @27817 has 81 MA's), (Start: 8 @27823 has 7 MA's), (Start: 12 @27835 has 2 MA's), (16, 27856), (36, 28042), (43, 28090), (44, 28093), (46, 28126), (48, 28147), (49, 28150),

Gene: YoureAdopted_32 Start: 27750, Stop: 28094, Start Num: 7
Candidate Starts for YoureAdopted_32:
(Start: 7 @27750 has 81 MA's), (Start: 8 @27756 has 7 MA's), (Start: 12 @27768 has 2 MA's), (16, 27789), (36, 27975), (43, 28023), (44, 28026), (46, 28059), (48, 28080), (49, 28083),

Gene: Yuna_34 Start: 27546, Stop: 27893, Start Num: 10
Candidate Starts for Yuna_34:
(Start: 10 @27546 has 24 MA's), (15, 27582), (22, 27624), (24, 27630), (32, 27696), (40, 27792), (41, 27795), (43, 27810), (44, 27813), (46, 27846), (47, 27852), (49, 27870),

Gene: Yunkel11_33 Start: 27047, Stop: 27409, Start Num: 7
Candidate Starts for Yunkel11_33:
(5, 26858), (Start: 7 @27047 has 81 MA's), (17, 27104), (21, 27134), (29, 27197), (32, 27209), (33, 27239), (40, 27305), (41, 27308), (43, 27323), (44, 27326), (46, 27359), (49, 27383),

Gene: Zabiza_33 Start: 27781, Stop: 28125, Start Num: 7
Candidate Starts for Zabiza_33:

(Start: 7 @27781 has 81 MA's), (Start: 8 @27787 has 7 MA's), (Start: 12 @27799 has 2 MA's), (16, 27820), (36, 28006), (43, 28054), (44, 28057), (46, 28090), (48, 28111), (49, 28114),

Gene: Zavala_33 Start: 27756, Stop: 28100, Start Num: 7
Candidate Starts for Zavala_33:
(Start: 7 @27756 has 81 MA's), (Start: 8 @27762 has 7 MA's), (Start: 12 @27774 has 2 MA's), (16, 27795), (36, 27981), (43, 28029), (44, 28032), (46, 28065), (48, 28086), (49, 28089),