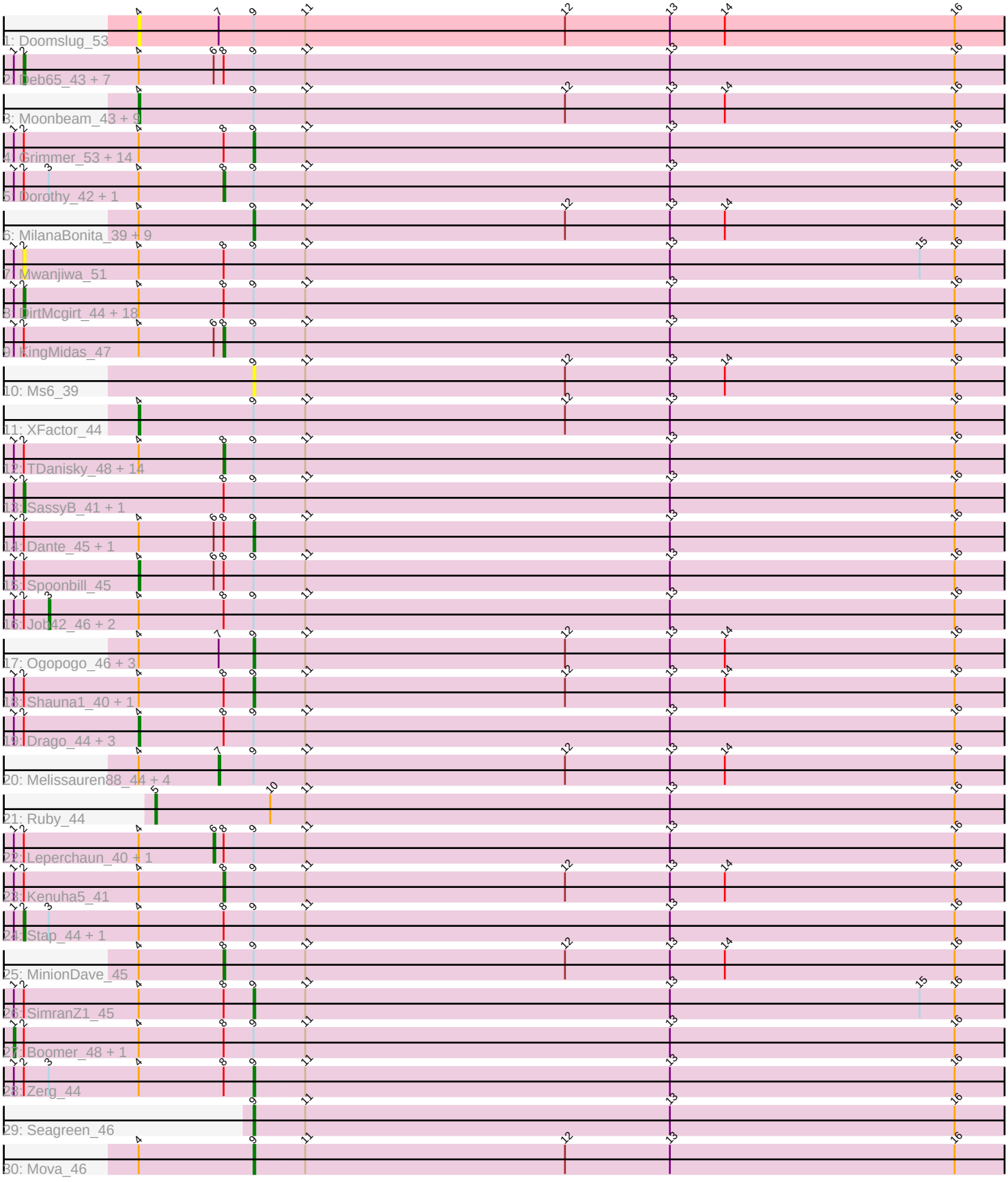
Pham 347402


1: Doomslug_53
2: Deb65_43 + 7
3: Moonbeam_43 + 9
4: Grimmer_53 + 14
5: Dorothy_42 + 1
6: MilanaBonita_39 + 9
7: Mwanjiwa_51
8: DirtMcgirt_44 + 18
9: KingMidas_47
10: Ms6_39
11: XFactor_44
12: TDanisky_48 + 14
13: SassyB_41 + 1
14: Dante_45 + 1
15: Spoonbill_45
16: Job42_46 + 2
17: Ogopogo_46 + 3
18: Shauna1_40 + 1
19: Drago_44 + 3
20: Melissauren88_44 + 4
21: Ruby_44
22: Leperchaun_40 + 1
23: Kenuha5_41
24: Stap_44 + 1
25: MinionDave_45
26: SimranZ1_45
27: Boomer_48 + 1
28: Zerg_44
29: Seagreen_46
30: Mova_46

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 347402 Report

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

Pham number 347402 has 120 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Doomslug_53
• Track 2 : Deb65_43, Nimbo_42, JoeyJr_43, PHappiness_43, Inventum_42, Geralt_43, Polka14_44, Pacc40_42
• Track 3 : Moonbeam_43, DLane_43, ShroomBoi_45, SilverChicken_55, Medindi_43, EleanorGeorge_43, Cornucopia_49, Beakin_47, Emma_46, Brushbloom_48
• Track 4 : Grimmer_53, MadMen_40, Leozinho_45, Crumble_41, NormanBulbieJr_47, Chevrolet_52, Mozy_54, ShowerHandel_48, FreddyB_46, ShiLan_46, Seabastian_47, Lucia_44, Beanstalk_46, Eish_46, Peridot_46
• Track 5 : Dorothy_42, Doomphist_45
• Track 6 : MilanaBonita_39, StAnnes_45, Cheesepuff_51, Akhila_39, LunaBlu_48, Galactic_45, KristaRAM_45, Flathead_46, Guppsters_46, Ovechkin_43
• Track 7 : Mwanjiwa_51
• Track 8 : DirtMcgirt_44, Martik_46, Jarcob_46, Llij_42, Lizziana_52, Topiatin_50, Koella_40, Nitzel_41, Ibhubesi_46, LilMoolah_44, Latretium_48, Priscilla_46, Eradicator_37, Nivrat_44, ArcusAngelus_49, BodEinwohner17_44, Yorick_43, Sparkdehlily_48, Cabrinians_47
• Track 9 : KingMidas_47
• Track 10 : Ms6_39
• Track 11 : XFactor_44
• Track 12 : TDanisky_48, Chuckly_45, Estave1_46, Marker_46, Modragons_46, Blarby_56, Llama_47, Tootsieroll_47, Krakatau_43, OfUltron_47, Taj_47, OlympiaSaint_45, Burwell21_45, Phatniss_43, DoRead_47
• Track 13 : SassyB_41, PopTart_41
• Track 14 : Dante_45, Scottish_46
• Track 15 : Spoonbill_45
• Track 16 : Job42_46, Blexus_43, RockyHorror_46
• Track 17 : Ogopogo_46, PhesterPhotato_47, SG4_44, Enby_47
• Track 18 : Shauna1_40, LittleShirley_45
• Track 19 : Drago_44, Rockne_43, PMC_40, Tchotchke_47
• Track 20 : Melissauren88_44, KingJulian_44, Phalconet_44, VRedHorse_46, Jant_48
• Track 21 : Ruby_44
• Track 22 : Leperchaun_40, RitaG_43
• Track 23 : Kenuha5_41
• Track 24 : Stap_44, Phasih_43
• Track 25 : MinionDave_45

• Track 26 : SimranZ1_45
• Track 27 : Boomer_48, Plumbus_45
• Track 28 : Zerg_44
• Track 29 : Seagreen_46
• Track 30 : Mova_46

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

The start number called the most often in the published annotations is 9, it was called in 37 of the 112 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akhila_39, Beanstalk_46, Cheesepuff_51, Chevrolet_52, Crumble_41, Dante_45, Eish_46, Enby_47, Flathead_46, FreddyB_46, Galactic_45, Grimmer_53, Guppsters_46, KristaRAM_45, Leozinho_45, LittleShirley_45, Lucia_44, LunaBlu_48, MadMen_40, MilanaBonita_39, Mova_46, Mozy_54, Ms6_39, NormanBulbieJr_47, Ogopogo_46, Ovechkin_43, Peridot_46, PhesterPhotato_47, SG4_44, Scottish_46, Seabastian_47, Seagreen_46, Shauna1_40, ShiLan_46, ShowerHandel_48, SimranZ1_45, StAnnes_45, Zerg_44,

Genes that have the "Most Annotated" start but do not call it:
• ArcusAngelus_49, Beakin_47, Blarby_56, Blexus_43, BodEinwohner17_44, Boomer_48, Brushbloom_48, Burwell21_45, Cabrinians_47, Chuckly_45, Cornucopia_49, DLane_43, Deb65_43, DirtMcgirt_44, DoRead_47, Doomphist_45, Doomslug_53, Dorothy_42, Drago_44, EleanorGeorge_43, Emma_46, Eradicator_37, Estave1_46, Geralt_43, Ibhubesi_46, Inventum_42, Jant_48, Jarcob_46, Job42_46, JoeyJr_43, Kenuha5_41, KingJulian_44, KingMidas_47, Koella_40, Krakatau_43, Latretium_48, Leperchaun_40, LilMoolah_44, Lizziana_52, Llama_47, Llij_42, Marker_46, Martik_46, Medindi_43, Melissauren88_44, MinionDave_45, Modragons_46, Moonbeam_43, Mwanjiwa_51, Nimbo_42, Nitzel_41, Nivrat_44, OfUltron_47, OlympiaSaint_45, PHappiness_43, PMC_40, Pacc40_42, Phalconet_44, Phasih_43, Phatniss_43, Plumbus_45, Polka14_44, PopTart_41, Priscilla_46, RitaG_43, Rockne_43, RockyHorror_46, SassyB_41, ShroomBoi_45, SilverChicken_55, Sparkdehlily_48, Spoonbill_45, Stap_44, TDanisky_48, Taj_47, Tchotchke_47, Tootsieroll_47, Topiatin_50, VRedHorse_46, XFactor_44, Yorick_43,

Genes that do not have the "Most Annotated" start:
• Ruby_44,

Summary by start number:

Start 1:
• Found in 84 of 120 (70.0%) of genes in pham
• Manual Annotations of this start: 2 of 112
• Called 2.4% of time when present
• Phage (with cluster) where this start called: Boomer_48 (F1), Plumbus_45 (F1),

Start 2:
• Found in 84 of 120 (70.0%) of genes in pham
• Manual Annotations of this start: 30 of 112

• Called 38.1% of time when present
• Phage (with cluster) where this start called: ArcusAngelus_49 (F1), BodEinwohner17_44 (F1), Cabrinians_47 (F1), Deb65_43 (F1), DirtMcgirt_44 (F1), Eradicator_37 (F1), Geralt_43 (F1), Ibhubesi_46 (F1), Inventum_42 (F1), Jarcob_46 (F1), JoeyJr_43 (F1), Koella_40 (F1), Latretium_48 (F1), LilMoolah_44 (F1), Lizziana_52 (F1), Llij_42 (F1), Martik_46 (F1), Mwanjiwa_51 (F1), Nimbo_42 (F1), Nitzel_41 (F1), Nivrat_44 (F1), PHappiness_43 (F1), Pacc40_42 (F1), Phasih_43 (F1), Polka14_44 (F1), PopTart_41 (F1), Priscilla_46 (F1), SassyB_41 (F1), Sparkdehlily_48 (F1), Stap_44 (F1), Topiatin_50 (F1), Yorick_43 (F1),

Start 3:
• Found in 8 of 120 (6.7%) of genes in pham
• Manual Annotations of this start: 3 of 112
• Called 37.5% of time when present
• Phage (with cluster) where this start called: Blexus_43 (F1), Job42_46 (F1), RockyHorror_46 (F1),

Start 4:
• Found in 115 of 120 (95.8%) of genes in pham
• Manual Annotations of this start: 14 of 112
• Called 14.8% of time when present
• Phage (with cluster) where this start called: Beakin_47 (F1), Brushbloom_48 (F1), Cornucopia_49 (F1), DLane_43 (F1), Doomslug_53 (F), Drago_44 (F1), EleanorGeorge_43 (F1), Emma_46 (F1), Medindi_43 (F1), Moonbeam_43 (F1), PMC_40 (F1), Rockne_43 (F1), ShroomBoi_45 (F1), SilverChicken_55 (F2), Spoonbill_45 (F1), Tchotchke_47 (F1), XFactor_44 (F1),

Start 5:
• Found in 1 of 120 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 112
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ruby_44 (F1),

Start 6:
• Found in 14 of 120 (11.7%) of genes in pham
• Manual Annotations of this start: 2 of 112
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Leperchaun_40 (F1), RitaG_43 (F1),

Start 7:
• Found in 10 of 120 (8.3%) of genes in pham
• Manual Annotations of this start: 4 of 112
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Jant_48 (F1), KingJulian_44 (F1), Melissauren88_44 (F1), Phalconet_44 (F1), VRedHorse_46 (F1),

Start 8:
• Found in 85 of 120 (70.8%) of genes in pham
• Manual Annotations of this start: 19 of 112
• Called 23.5% of time when present
• Phage (with cluster) where this start called: Blarby_56 (F), Burwell21_45 (F1), Chuckly_45 (F1), DoRead_47 (F1), Doomphist_45 (F1), Dorothy_42 (F1), Estave1_46 (F1), Kenuha5_41 (F1), KingMidas_47 (F1), Krakatau_43 (F1), Llama_47

(F1), Marker_46 (F1), MinionDave_45 (F1), Modragons_46 (F1), OfUltron_47 (F1), OlympiaSaint_45 (F1), Phatniss_43 (F1), TDanisky_48 (F1), Taj_47 (F1), Tootsieroll_47 (F1),

Start 9:
• Found in 119 of 120 (99.2%) of genes in pham
• Manual Annotations of this start: 37 of 112
• Called 31.9% of time when present
• Phage (with cluster) where this start called: Akhila_39 (F1), Beanstalk_46 (F1), Cheesepuff_51 (F1), Chevrolet_52 (F1), Crumble_41 (F1), Dante_45 (F1), Eish_46 (F1), Enby_47 (F1), Flathead_46 (F1), FreddyB_46 (F1), Galactic_45 (F1), Grimmer_53 (F1), Guppsters_46 (F1), KristaRAM_45 (F1), Leozinho_45 (F1), LittleShirley_45 (F1), Lucia_44 (F1), LunaBlu_48 (F1), MadMen_40 (F1), MilanaBonita_39 (F1), Mova_46 (F1), Mozy_54 (F1), Ms6_39 (F1), NormanBulbieJr_47 (F1), Ogopogo_46 (F1), Ovechkin_43 (F1), Peridot_46 (F1), PhesterPhotato_47 (F1), SG4_44 (F1), Scottish_46 (F1), Seabastian_47 (F1), Seagreen_46 (F1), Shauna1_40 (F1), ShiLan_46 (F1), ShowerHandel_48 (F1), SimranZ1_45 (F1), StAnnes_45 (F1), Zerg_44 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: F1, F2, F,

Info for manual annotations of cluster F1:
•Start number 1 was manually annotated 2 times for cluster F1.
•Start number 2 was manually annotated 30 times for cluster F1.
•Start number 3 was manually annotated 3 times for cluster F1.
•Start number 4 was manually annotated 14 times for cluster F1.
•Start number 5 was manually annotated 1 time for cluster F1.
•Start number 6 was manually annotated 2 times for cluster F1.
•Start number 7 was manually annotated 4 times for cluster F1.
•Start number 8 was manually annotated 19 times for cluster F1.
•Start number 9 was manually annotated 37 times for cluster F1.

Gene Information:

Gene: Akhila_39 Start: 31622, Stop: 31023, Start Num: 9
Candidate Starts for Akhila_39:
(Start: 4 @31691 has 14 MA's), (Start: 9 @31622 has 37 MA's), (11, 31592), (12, 31436), (13, 31373), (14, 31340), (16, 31202),

Gene: ArcusAngelus_49 Start: 37110, Stop: 36370, Start Num: 2
Candidate Starts for ArcusAngelus_49:
(Start: 1 @37116 has 2 MA's), (Start: 2 @37110 has 30 MA's), (Start: 4 @37041 has 14 MA's), (Start: 8 @36990 has 19 MA's), (Start: 9 @36972 has 37 MA's), (11, 36942), (13, 36723), (16, 36552),

Gene: Beakin_47 Start: 34776, Stop: 34108, Start Num: 4
Candidate Starts for Beakin_47:

(Start: 4 @34776 has 14 MA's), (Start: 9 @34707 has 37 MA's), (11, 34677), (12, 34521), (13, 34458), (14, 34425), (16, 34287),

Gene: Beanstalk_46 Start: 34334, Stop: 33732, Start Num: 9
Candidate Starts for Beanstalk_46:
(Start: 1 @34478 has 2 MA's), (Start: 2 @34472 has 30 MA's), (Start: 4 @34403 has 14 MA's), (Start: 8 @34352 has 19 MA's), (Start: 9 @34334 has 37 MA's), (11, 34304), (13, 34085), (16, 33914),

Gene: Blarby_56 Start: 35403, Stop: 34783, Start Num: 8
Candidate Starts for Blarby_56:
(Start: 1 @35529 has 2 MA's), (Start: 2 @35523 has 30 MA's), (Start: 4 @35454 has 14 MA's), (Start: 8 @35403 has 19 MA's), (Start: 9 @35385 has 37 MA's), (11, 35355), (13, 35136), (16, 34965),

Gene: Blexus_43 Start: 34826, Stop: 34104, Start Num: 3
Candidate Starts for Blexus_43:
(Start: 1 @34847 has 2 MA's), (Start: 2 @34841 has 30 MA's), (Start: 3 @34826 has 3 MA's), (Start: 4 @34772 has 14 MA's), (Start: 8 @34721 has 19 MA's), (Start: 9 @34703 has 37 MA's), (11, 34673), (13, 34454), (16, 34283),

Gene: BodEinwohner17_44 Start: 34783, Stop: 34043, Start Num: 2
Candidate Starts for BodEinwohner17_44:
(Start: 1 @34789 has 2 MA's), (Start: 2 @34783 has 30 MA's), (Start: 4 @34714 has 14 MA's), (Start: 8 @34663 has 19 MA's), (Start: 9 @34645 has 37 MA's), (11, 34615), (13, 34396), (16, 34225),

Gene: Boomer_48 Start: 36022, Stop: 35276, Start Num: 1
Candidate Starts for Boomer_48:
(Start: 1 @36022 has 2 MA's), (Start: 2 @36016 has 30 MA's), (Start: 4 @35947 has 14 MA's), (Start: 8 @35896 has 19 MA's), (Start: 9 @35878 has 37 MA's), (11, 35848), (13, 35629), (16, 35458),

Gene: Brushbloom_48 Start: 35416, Stop: 34748, Start Num: 4
Candidate Starts for Brushbloom_48:
(Start: 4 @35416 has 14 MA's), (Start: 9 @35347 has 37 MA's), (11, 35317), (12, 35161), (13, 35098), (14, 35065), (16, 34927),

Gene: Burwell21_45 Start: 35928, Stop: 35308, Start Num: 8
Candidate Starts for Burwell21_45:
(Start: 1 @36054 has 2 MA's), (Start: 2 @36048 has 30 MA's), (Start: 4 @35979 has 14 MA's), (Start: 8 @35928 has 19 MA's), (Start: 9 @35910 has 37 MA's), (11, 35880), (13, 35661), (16, 35490),

Gene: Cabrinians_47 Start: 36126, Stop: 35386, Start Num: 2
Candidate Starts for Cabrinians_47:
(Start: 1 @36132 has 2 MA's), (Start: 2 @36126 has 30 MA's), (Start: 4 @36057 has 14 MA's), (Start: 8 @36006 has 19 MA's), (Start: 9 @35988 has 37 MA's), (11, 35958), (13, 35739), (16, 35568),

Gene: Cheesepuff_51 Start: 36870, Stop: 36271, Start Num: 9
Candidate Starts for Cheesepuff_51:
(Start: 4 @36939 has 14 MA's), (Start: 9 @36870 has 37 MA's), (11, 36840), (12, 36684), (13, 36621), (14, 36588), (16, 36450),

Gene: Chevrolet_52 Start: 36973, Stop: 36371, Start Num: 9
Candidate Starts for Chevrolet_52:
(Start: 1 @37117 has 2 MA's), (Start: 2 @37111 has 30 MA's), (Start: 4 @37042 has 14 MA's), (Start: 8 @36991 has 19 MA's), (Start: 9 @36973 has 37 MA's), (11, 36943), (13, 36724), (16, 36553),

Gene: Chuckly_45 Start: 34691, Stop: 34071, Start Num: 8
Candidate Starts for Chuckly_45:
(Start: 1 @34817 has 2 MA's), (Start: 2 @34811 has 30 MA's), (Start: 4 @34742 has 14 MA's), (Start: 8 @34691 has 19 MA's), (Start: 9 @34673 has 37 MA's), (11, 34643), (13, 34424), (16, 34253),

Gene: Cornucopia_49 Start: 36045, Stop: 35377, Start Num: 4
Candidate Starts for Cornucopia_49:
(Start: 4 @36045 has 14 MA's), (Start: 9 @35976 has 37 MA's), (11, 35946), (12, 35790), (13, 35727), (14, 35694), (16, 35556),

Gene: Crumble_41 Start: 31924, Stop: 31322, Start Num: 9
Candidate Starts for Crumble_41:
(Start: 1 @32068 has 2 MA's), (Start: 2 @32062 has 30 MA's), (Start: 4 @31993 has 14 MA's), (Start: 8 @31942 has 19 MA's), (Start: 9 @31924 has 37 MA's), (11, 31894), (13, 31675), (16, 31504),

Gene: DLane_43 Start: 34828, Stop: 34160, Start Num: 4
Candidate Starts for DLane_43:
(Start: 4 @34828 has 14 MA's), (Start: 9 @34759 has 37 MA's), (11, 34729), (12, 34573), (13, 34510), (14, 34477), (16, 34339),

Gene: Dante_45 Start: 34409, Stop: 33807, Start Num: 9
Candidate Starts for Dante_45:
(Start: 1 @34553 has 2 MA's), (Start: 2 @34547 has 30 MA's), (Start: 4 @34478 has 14 MA's), (Start: 6 @34433 has 2 MA's), (Start: 8 @34427 has 19 MA's), (Start: 9 @34409 has 37 MA's), (11, 34379), (13, 34160), (16, 33989),

Gene: Deb65_43 Start: 34402, Stop: 33662, Start Num: 2
Candidate Starts for Deb65_43:
(Start: 1 @34408 has 2 MA's), (Start: 2 @34402 has 30 MA's), (Start: 4 @34333 has 14 MA's), (Start: 6 @34288 has 2 MA's), (Start: 8 @34282 has 19 MA's), (Start: 9 @34264 has 37 MA's), (11, 34234), (13, 34015), (16, 33844),

Gene: DirtMcgirt_44 Start: 34084, Stop: 33344, Start Num: 2
Candidate Starts for DirtMcgirt_44:
(Start: 1 @34090 has 2 MA's), (Start: 2 @34084 has 30 MA's), (Start: 4 @34015 has 14 MA's), (Start: 8 @33964 has 19 MA's), (Start: 9 @33946 has 37 MA's), (11, 33916), (13, 33697), (16, 33526),

Gene: DoRead_47 Start: 34679, Stop: 34059, Start Num: 8
Candidate Starts for DoRead_47:
(Start: 1 @34805 has 2 MA's), (Start: 2 @34799 has 30 MA's), (Start: 4 @34730 has 14 MA's), (Start: 8 @34679 has 19 MA's), (Start: 9 @34661 has 37 MA's), (11, 34631), (13, 34412), (16, 34241),

Gene: Doomphist_45 Start: 35661, Stop: 35041, Start Num: 8
Candidate Starts for Doomphist_45:
(Start: 1 @35787 has 2 MA's), (Start: 2 @35781 has 30 MA's), (Start: 3 @35766 has 3 MA's), (Start: 4 @35712 has 14 MA's), (Start: 8 @35661 has 19 MA's), (Start: 9 @35643 has 37 MA's), (11, 35613), (13, 35394), (16, 35223),

Gene: Doomslug_53 Start: 34691, Stop: 34023, Start Num: 4
Candidate Starts for Doomslug_53:
(Start: 4 @34691 has 14 MA's), (Start: 7 @34643 has 4 MA's), (Start: 9 @34622 has 37 MA's), (11, 34592), (12, 34436), (13, 34373), (14, 34340), (16, 34202),

Gene: Dorothy_42 Start: 34460, Stop: 33840, Start Num: 8
Candidate Starts for Dorothy_42:
(Start: 1 @34586 has 2 MA's), (Start: 2 @34580 has 30 MA's), (Start: 3 @34565 has 3 MA's), (Start: 4 @34511 has 14 MA's), (Start: 8 @34460 has 19 MA's), (Start: 9 @34442 has 37 MA's), (11, 34412), (13, 34193), (16, 34022),

Gene: Drago_44 Start: 34018, Stop: 33347, Start Num: 4
Candidate Starts for Drago_44:
(Start: 1 @34093 has 2 MA's), (Start: 2 @34087 has 30 MA's), (Start: 4 @34018 has 14 MA's), (Start: 8 @33967 has 19 MA's), (Start: 9 @33949 has 37 MA's), (11, 33919), (13, 33700), (16, 33529),

Gene: Eish_46 Start: 34990, Stop: 34388, Start Num: 9
Candidate Starts for Eish_46:
(Start: 1 @35134 has 2 MA's), (Start: 2 @35128 has 30 MA's), (Start: 4 @35059 has 14 MA's), (Start: 8 @35008 has 19 MA's), (Start: 9 @34990 has 37 MA's), (11, 34960), (13, 34741), (16, 34570),

Gene: EleanorGeorge_43 Start: 34206, Stop: 33538, Start Num: 4
Candidate Starts for EleanorGeorge_43:
(Start: 4 @34206 has 14 MA's), (Start: 9 @34137 has 37 MA's), (11, 34107), (12, 33951), (13, 33888), (14, 33855), (16, 33717),

Gene: Emma_46 Start: 35235, Stop: 34567, Start Num: 4
Candidate Starts for Emma_46:
(Start: 4 @35235 has 14 MA's), (Start: 9 @35166 has 37 MA's), (11, 35136), (12, 34980), (13, 34917), (14, 34884), (16, 34746),

Gene: Enby_47 Start: 34342, Stop: 33743, Start Num: 9
Candidate Starts for Enby_47:
(Start: 4 @34411 has 14 MA's), (Start: 7 @34363 has 4 MA's), (Start: 9 @34342 has 37 MA's), (11, 34312), (12, 34156), (13, 34093), (14, 34060), (16, 33922),

Gene: Eradicator_37 Start: 32723, Stop: 31983, Start Num: 2
Candidate Starts for Eradicator_37:
(Start: 1 @32729 has 2 MA's), (Start: 2 @32723 has 30 MA's), (Start: 4 @32654 has 14 MA's), (Start: 8 @32603 has 19 MA's), (Start: 9 @32585 has 37 MA's), (11, 32555), (13, 32336), (16, 32165),

Gene: Estave1_46 Start: 34410, Stop: 33790, Start Num: 8
Candidate Starts for Estave1_46:
(Start: 1 @34536 has 2 MA's), (Start: 2 @34530 has 30 MA's), (Start: 4 @34461 has 14 MA's), (Start: 8 @34410 has 19 MA's), (Start: 9 @34392 has 37 MA's), (11, 34362), (13, 34143), (16, 33972),

Gene: Flathead_46 Start: 36098, Stop: 35499, Start Num: 9
Candidate Starts for Flathead_46:
(Start: 4 @36167 has 14 MA's), (Start: 9 @36098 has 37 MA's), (11, 36068), (12, 35912), (13, 35849), (14, 35816), (16, 35678),

Gene: FreddyB_46 Start: 34836, Stop: 34234, Start Num: 9
Candidate Starts for FreddyB_46:
(Start: 1 @34980 has 2 MA's), (Start: 2 @34974 has 30 MA's), (Start: 4 @34905 has 14 MA's), (Start: 8 @34854 has 19 MA's), (Start: 9 @34836 has 37 MA's), (11, 34806), (13, 34587), (16, 34416),

Gene: Galactic_45 Start: 35277, Stop: 34678, Start Num: 9

Candidate Starts for Galactic_45:
(Start: 4 @35346 has 14 MA's), (Start: 9 @35277 has 37 MA's), (11, 35247), (12, 35091), (13, 35028), (14, 34995), (16, 34857),

Gene: Geralt_43 Start: 34401, Stop: 33661, Start Num: 2
Candidate Starts for Geralt_43:
(Start: 1 @34407 has 2 MA's), (Start: 2 @34401 has 30 MA's), (Start: 4 @34332 has 14 MA's), (Start: 6 @34287 has 2 MA's), (Start: 8 @34281 has 19 MA's), (Start: 9 @34263 has 37 MA's), (11, 34233), (13, 34014), (16, 33843),

Gene: Grimmer_53 Start: 36821, Stop: 36219, Start Num: 9
Candidate Starts for Grimmer_53:
(Start: 1 @36965 has 2 MA's), (Start: 2 @36959 has 30 MA's), (Start: 4 @36890 has 14 MA's), (Start: 8 @36839 has 19 MA's), (Start: 9 @36821 has 37 MA's), (11, 36791), (13, 36572), (16, 36401),

Gene: Guppsters_46 Start: 35045, Stop: 34446, Start Num: 9
Candidate Starts for Guppsters_46:
(Start: 4 @35114 has 14 MA's), (Start: 9 @35045 has 37 MA's), (11, 35015), (12, 34859), (13, 34796), (14, 34763), (16, 34625),

Gene: Ibhubesi_46 Start: 35173, Stop: 34433, Start Num: 2
Candidate Starts for Ibhubesi_46:
(Start: 1 @35179 has 2 MA's), (Start: 2 @35173 has 30 MA's), (Start: 4 @35104 has 14 MA's), (Start: 8 @35053 has 19 MA's), (Start: 9 @35035 has 37 MA's), (11, 35005), (13, 34786), (16, 34615),

Gene: Inventum_42 Start: 35114, Stop: 34374, Start Num: 2
Candidate Starts for Inventum_42:
(Start: 1 @35120 has 2 MA's), (Start: 2 @35114 has 30 MA's), (Start: 4 @35045 has 14 MA's), (Start: 6 @35000 has 2 MA's), (Start: 8 @34994 has 19 MA's), (Start: 9 @34976 has 37 MA's), (11, 34946), (13, 34727), (16, 34556),

Gene: Jant_48 Start: 36721, Stop: 36101, Start Num: 7
Candidate Starts for Jant_48:
(Start: 4 @36769 has 14 MA's), (Start: 7 @36721 has 4 MA's), (Start: 9 @36700 has 37 MA's), (11, 36670), (12, 36514), (13, 36451), (14, 36418), (16, 36280),

Gene: Jarcob_46 Start: 36094, Stop: 35354, Start Num: 2
Candidate Starts for Jarcob_46:
(Start: 1 @36100 has 2 MA's), (Start: 2 @36094 has 30 MA's), (Start: 4 @36025 has 14 MA's), (Start: 8 @35974 has 19 MA's), (Start: 9 @35956 has 37 MA's), (11, 35926), (13, 35707), (16, 35536),

Gene: Job42_46 Start: 36416, Stop: 35691, Start Num: 3
Candidate Starts for Job42_46:
(Start: 1 @36437 has 2 MA's), (Start: 2 @36431 has 30 MA's), (Start: 3 @36416 has 3 MA's), (Start: 4 @36362 has 14 MA's), (Start: 8 @36311 has 19 MA's), (Start: 9 @36293 has 37 MA's), (11, 36263), (13, 36044), (16, 35873),

Gene: JoeyJr_43 Start: 34601, Stop: 33861, Start Num: 2
Candidate Starts for JoeyJr_43:
(Start: 1 @34607 has 2 MA's), (Start: 2 @34601 has 30 MA's), (Start: 4 @34532 has 14 MA's), (Start: 6 @34487 has 2 MA's), (Start: 8 @34481 has 19 MA's), (Start: 9 @34463 has 37 MA's), (11, 34433), (13, 34214), (16, 34043),

Gene: Kenuha5_41 Start: 33689, Stop: 33072, Start Num: 8
Candidate Starts for Kenuha5_41:
(Start: 1 @33815 has 2 MA's), (Start: 2 @33809 has 30 MA's), (Start: 4 @33740 has 14 MA's), (Start: 8 @33689 has 19 MA's), (Start: 9 @33671 has 37 MA's), (11, 33641), (12, 33485), (13, 33422), (14, 33389), (16, 33251),

Gene: KingJulian_44 Start: 34940, Stop: 34320, Start Num: 7
Candidate Starts for KingJulian_44:
(Start: 4 @34988 has 14 MA's), (Start: 7 @34940 has 4 MA's), (Start: 9 @34919 has 37 MA's), (11, 34889), (12, 34733), (13, 34670), (14, 34637), (16, 34499),

Gene: KingMidas_47 Start: 36143, Stop: 35523, Start Num: 8
Candidate Starts for KingMidas_47:
(Start: 1 @36269 has 2 MA's), (Start: 2 @36263 has 30 MA's), (Start: 4 @36194 has 14 MA's), (Start: 6 @36149 has 2 MA's), (Start: 8 @36143 has 19 MA's), (Start: 9 @36125 has 37 MA's), (11, 36095), (13, 35876), (16, 35705),

Gene: Koella_40 Start: 32024, Stop: 31284, Start Num: 2
Candidate Starts for Koella_40:
(Start: 1 @32030 has 2 MA's), (Start: 2 @32024 has 30 MA's), (Start: 4 @31955 has 14 MA's), (Start: 8 @31904 has 19 MA's), (Start: 9 @31886 has 37 MA's), (11, 31856), (13, 31637), (16, 31466),

Gene: Krakatau_43 Start: 34815, Stop: 34195, Start Num: 8
Candidate Starts for Krakatau_43:
(Start: 1 @34941 has 2 MA's), (Start: 2 @34935 has 30 MA's), (Start: 4 @34866 has 14 MA's), (Start: 8 @34815 has 19 MA's), (Start: 9 @34797 has 37 MA's), (11, 34767), (13, 34548), (16, 34377),

Gene: KristaRAM_45 Start: 36010, Stop: 35411, Start Num: 9
Candidate Starts for KristaRAM_45:
(Start: 4 @36079 has 14 MA's), (Start: 9 @36010 has 37 MA's), (11, 35980), (12, 35824), (13, 35761), (14, 35728), (16, 35590),

Gene: Latretium_48 Start: 36053, Stop: 35313, Start Num: 2
Candidate Starts for Latretium_48:
(Start: 1 @36059 has 2 MA's), (Start: 2 @36053 has 30 MA's), (Start: 4 @35984 has 14 MA's), (Start: 8 @35933 has 19 MA's), (Start: 9 @35915 has 37 MA's), (11, 35885), (13, 35666), (16, 35495),

Gene: Leozinho_45 Start: 34717, Stop: 34115, Start Num: 9
Candidate Starts for Leozinho_45:
(Start: 1 @34861 has 2 MA's), (Start: 2 @34855 has 30 MA's), (Start: 4 @34786 has 14 MA's), (Start: 8 @34735 has 19 MA's), (Start: 9 @34717 has 37 MA's), (11, 34687), (13, 34468), (16, 34297),

Gene: Leperchaun_40 Start: 33717, Stop: 33091, Start Num: 6
Candidate Starts for Leperchaun_40:
(Start: 1 @33837 has 2 MA's), (Start: 2 @33831 has 30 MA's), (Start: 4 @33762 has 14 MA's), (Start: 6 @33717 has 2 MA's), (Start: 8 @33711 has 19 MA's), (Start: 9 @33693 has 37 MA's), (11, 33663), (13, 33444), (16, 33273),

Gene: LilMoolah_44 Start: 34833, Stop: 34093, Start Num: 2
Candidate Starts for LilMoolah_44:
(Start: 1 @34839 has 2 MA's), (Start: 2 @34833 has 30 MA's), (Start: 4 @34764 has 14 MA's), (Start: 8 @34713 has 19 MA's), (Start: 9 @34695 has 37 MA's), (11, 34665), (13, 34446), (16, 34275),

Gene: LittleShirley_45 Start: 35726, Stop: 35127, Start Num: 9
Candidate Starts for LittleShirley_45:
(Start: 1 @35870 has 2 MA's), (Start: 2 @35864 has 30 MA's), (Start: 4 @35795 has 14 MA's), (Start: 8 @35744 has 19 MA's), (Start: 9 @35726 has 37 MA's), (11, 35696), (12, 35540), (13, 35477), (14, 35444), (16, 35306),

Gene: Lizziana_52 Start: 37097, Stop: 36357, Start Num: 2
Candidate Starts for Lizziana_52:
(Start: 1 @37103 has 2 MA's), (Start: 2 @37097 has 30 MA's), (Start: 4 @37028 has 14 MA's), (Start: 8 @36977 has 19 MA's), (Start: 9 @36959 has 37 MA's), (11, 36929), (13, 36710), (16, 36539),

Gene: Llama_47 Start: 35849, Stop: 35229, Start Num: 8
Candidate Starts for Llama_47:
(Start: 1 @35975 has 2 MA's), (Start: 2 @35969 has 30 MA's), (Start: 4 @35900 has 14 MA's), (Start: 8 @35849 has 19 MA's), (Start: 9 @35831 has 37 MA's), (11, 35801), (13, 35582), (16, 35411),

Gene: Llij_42 Start: 34241, Stop: 33501, Start Num: 2
Candidate Starts for Llij_42:
(Start: 1 @34247 has 2 MA's), (Start: 2 @34241 has 30 MA's), (Start: 4 @34172 has 14 MA's), (Start: 8 @34121 has 19 MA's), (Start: 9 @34103 has 37 MA's), (11, 34073), (13, 33854), (16, 33683),

Gene: Lucia_44 Start: 34247, Stop: 33645, Start Num: 9
Candidate Starts for Lucia_44:
(Start: 1 @34391 has 2 MA's), (Start: 2 @34385 has 30 MA's), (Start: 4 @34316 has 14 MA's), (Start: 8 @34265 has 19 MA's), (Start: 9 @34247 has 37 MA's), (11, 34217), (13, 33998), (16, 33827),

Gene: LunaBlu_48 Start: 35936, Stop: 35337, Start Num: 9
Candidate Starts for LunaBlu_48:
(Start: 4 @36005 has 14 MA's), (Start: 9 @35936 has 37 MA's), (11, 35906), (12, 35750), (13, 35687), (14, 35654), (16, 35516),

Gene: MadMen_40 Start: 33743, Stop: 33141, Start Num: 9
Candidate Starts for MadMen_40:
(Start: 1 @33887 has 2 MA's), (Start: 2 @33881 has 30 MA's), (Start: 4 @33812 has 14 MA's), (Start: 8 @33761 has 19 MA's), (Start: 9 @33743 has 37 MA's), (11, 33713), (13, 33494), (16, 33323),

Gene: Marker_46 Start: 34616, Stop: 33996, Start Num: 8
Candidate Starts for Marker_46:
(Start: 1 @34742 has 2 MA's), (Start: 2 @34736 has 30 MA's), (Start: 4 @34667 has 14 MA's), (Start: 8 @34616 has 19 MA's), (Start: 9 @34598 has 37 MA's), (11, 34568), (13, 34349), (16, 34178),

Gene: Martik_46 Start: 36050, Stop: 35310, Start Num: 2
Candidate Starts for Martik_46:
(Start: 1 @36056 has 2 MA's), (Start: 2 @36050 has 30 MA's), (Start: 4 @35981 has 14 MA's), (Start: 8 @35930 has 19 MA's), (Start: 9 @35912 has 37 MA's), (11, 35882), (13, 35663), (16, 35492),

Gene: Medindi_43 Start: 34049, Stop: 33381, Start Num: 4
Candidate Starts for Medindi_43:
(Start: 4 @34049 has 14 MA's), (Start: 9 @33980 has 37 MA's), (11, 33950), (12, 33794), (13, 33731), (14, 33698), (16, 33560),

Gene: Melissauren88_44 Start: 35089, Stop: 34469, Start Num: 7
Candidate Starts for Melissauren88_44:

(Start: 4 @35137 has 14 MA's), (Start: 7 @35089 has 4 MA's), (Start: 9 @35068 has 37 MA's), (11, 35038), (12, 34882), (13, 34819), (14, 34786), (16, 34648),

Gene: MilanaBonita_39 Start: 31622, Stop: 31023, Start Num: 9
Candidate Starts for MilanaBonita_39:
(Start: 4 @31691 has 14 MA's), (Start: 9 @31622 has 37 MA's), (11, 31592), (12, 31436), (13, 31373), (14, 31340), (16, 31202),

Gene: MinionDave_45 Start: 35623, Stop: 35006, Start Num: 8
Candidate Starts for MinionDave_45:
(Start: 4 @35674 has 14 MA's), (Start: 8 @35623 has 19 MA's), (Start: 9 @35605 has 37 MA's), (11, 35575), (12, 35419), (13, 35356), (14, 35323), (16, 35185),

Gene: Modragons_46 Start: 35695, Stop: 35075, Start Num: 8
Candidate Starts for Modragons_46:
(Start: 1 @35821 has 2 MA's), (Start: 2 @35815 has 30 MA's), (Start: 4 @35746 has 14 MA's), (Start: 8 @35695 has 19 MA's), (Start: 9 @35677 has 37 MA's), (11, 35647), (13, 35428), (16, 35257),

Gene: Moonbeam_43 Start: 35191, Stop: 34523, Start Num: 4
Candidate Starts for Moonbeam_43:
(Start: 4 @35191 has 14 MA's), (Start: 9 @35122 has 37 MA's), (11, 35092), (12, 34936), (13, 34873), (14, 34840), (16, 34702),

Gene: Mova_46 Start: 34887, Stop: 34285, Start Num: 9
Candidate Starts for Mova_46:
(Start: 4 @34956 has 14 MA's), (Start: 9 @34887 has 37 MA's), (11, 34857), (12, 34701), (13, 34638), (16, 34467),

Gene: Mozy_54 Start: 37161, Stop: 36559, Start Num: 9
Candidate Starts for Mozy_54:
(Start: 1 @37305 has 2 MA's), (Start: 2 @37299 has 30 MA's), (Start: 4 @37230 has 14 MA's), (Start: 8 @37179 has 19 MA's), (Start: 9 @37161 has 37 MA's), (11, 37131), (13, 36912), (16, 36741),

Gene: Ms6_39 Start: 30134, Stop: 29535, Start Num: 9
Candidate Starts for Ms6_39:
(Start: 9 @30134 has 37 MA's), (11, 30104), (12, 29948), (13, 29885), (14, 29852), (16, 29714),

Gene: Mwanjiwa_51 Start: 35819, Stop: 35079, Start Num: 2
Candidate Starts for Mwanjiwa_51:
(Start: 1 @35825 has 2 MA's), (Start: 2 @35819 has 30 MA's), (Start: 4 @35750 has 14 MA's), (Start: 8 @35699 has 19 MA's), (Start: 9 @35681 has 37 MA's), (11, 35651), (13, 35432), (15, 35282), (16, 35261),

Gene: Nimbo_42 Start: 34404, Stop: 33664, Start Num: 2
Candidate Starts for Nimbo_42:
(Start: 1 @34410 has 2 MA's), (Start: 2 @34404 has 30 MA's), (Start: 4 @34335 has 14 MA's), (Start: 6 @34290 has 2 MA's), (Start: 8 @34284 has 19 MA's), (Start: 9 @34266 has 37 MA's), (11, 34236), (13, 34017), (16, 33846),

Gene: Nitzel_41 Start: 34509, Stop: 33769, Start Num: 2
Candidate Starts for Nitzel_41:
(Start: 1 @34515 has 2 MA's), (Start: 2 @34509 has 30 MA's), (Start: 4 @34440 has 14 MA's), (Start: 8 @34389 has 19 MA's), (Start: 9 @34371 has 37 MA's), (11, 34341), (13, 34122), (16, 33951),

Gene: Nivrat_44 Start: 34706, Stop: 33966, Start Num: 2
Candidate Starts for Nivrat_44:
(Start: 1 @34712 has 2 MA's), (Start: 2 @34706 has 30 MA's), (Start: 4 @34637 has 14 MA's), (Start: 8 @34586 has 19 MA's), (Start: 9 @34568 has 37 MA's), (11, 34538), (13, 34319), (16, 34148),

Gene: NormanBulbieJr_47 Start: 35899, Stop: 35297, Start Num: 9
Candidate Starts for NormanBulbieJr_47:
(Start: 1 @36043 has 2 MA's), (Start: 2 @36037 has 30 MA's), (Start: 4 @35968 has 14 MA's), (Start: 8 @35917 has 19 MA's), (Start: 9 @35899 has 37 MA's), (11, 35869), (13, 35650), (16, 35479),

Gene: OfUltron_47 Start: 35851, Stop: 35231, Start Num: 8
Candidate Starts for OfUltron_47:
(Start: 1 @35977 has 2 MA's), (Start: 2 @35971 has 30 MA's), (Start: 4 @35902 has 14 MA's), (Start: 8 @35851 has 19 MA's), (Start: 9 @35833 has 37 MA's), (11, 35803), (13, 35584), (16, 35413),

Gene: Ogopogo_46 Start: 34219, Stop: 33620, Start Num: 9
Candidate Starts for Ogopogo_46:
(Start: 4 @34288 has 14 MA's), (Start: 7 @34240 has 4 MA's), (Start: 9 @34219 has 37 MA's), (11, 34189), (12, 34033), (13, 33970), (14, 33937), (16, 33799),

Gene: OlympiaSaint_45 Start: 34760, Stop: 34140, Start Num: 8
Candidate Starts for OlympiaSaint_45:
(Start: 1 @34886 has 2 MA's), (Start: 2 @34880 has 30 MA's), (Start: 4 @34811 has 14 MA's), (Start: 8 @34760 has 19 MA's), (Start: 9 @34742 has 37 MA's), (11, 34712), (13, 34493), (16, 34322),

Gene: Ovechkin_43 Start: 35449, Stop: 34850, Start Num: 9
Candidate Starts for Ovechkin_43:
(Start: 4 @35518 has 14 MA's), (Start: 9 @35449 has 37 MA's), (11, 35419), (12, 35263), (13, 35200), (14, 35167), (16, 35029),

Gene: PHappiness_43 Start: 34377, Stop: 33637, Start Num: 2
Candidate Starts for PHappiness_43:
(Start: 1 @34383 has 2 MA's), (Start: 2 @34377 has 30 MA's), (Start: 4 @34308 has 14 MA's), (Start: 6 @34263 has 2 MA's), (Start: 8 @34257 has 19 MA's), (Start: 9 @34239 has 37 MA's), (11, 34209), (13, 33990), (16, 33819),

Gene: PMC_40 Start: 34183, Stop: 33512, Start Num: 4
Candidate Starts for PMC_40:
(Start: 1 @34258 has 2 MA's), (Start: 2 @34252 has 30 MA's), (Start: 4 @34183 has 14 MA's), (Start: 8 @34132 has 19 MA's), (Start: 9 @34114 has 37 MA's), (11, 34084), (13, 33865), (16, 33694),

Gene: Pacc40_42 Start: 34451, Stop: 33711, Start Num: 2
Candidate Starts for Pacc40_42:
(Start: 1 @34457 has 2 MA's), (Start: 2 @34451 has 30 MA's), (Start: 4 @34382 has 14 MA's), (Start: 6 @34337 has 2 MA's), (Start: 8 @34331 has 19 MA's), (Start: 9 @34313 has 37 MA's), (11, 34283), (13, 34064), (16, 33893),

Gene: Peridot_46 Start: 35931, Stop: 35332, Start Num: 9
Candidate Starts for Peridot_46:
(Start: 1 @36075 has 2 MA's), (Start: 2 @36069 has 30 MA's), (Start: 4 @36000 has 14 MA's), (Start: 8 @35949 has 19 MA's), (Start: 9 @35931 has 37 MA's), (11, 35901), (13, 35682), (16, 35511),

Gene: Phalconet_44 Start: 34467, Stop: 33847, Start Num: 7
Candidate Starts for Phalconet_44:
(Start: 4 @34515 has 14 MA's), (Start: 7 @34467 has 4 MA's), (Start: 9 @34446 has 37 MA's), (11, 34416), (12, 34260), (13, 34197), (14, 34164), (16, 34026),

Gene: Phasih_43 Start: 34796, Stop: 34056, Start Num: 2
Candidate Starts for Phasih_43:
(Start: 1 @34802 has 2 MA's), (Start: 2 @34796 has 30 MA's), (Start: 3 @34781 has 3 MA's), (Start: 4 @34727 has 14 MA's), (Start: 8 @34676 has 19 MA's), (Start: 9 @34658 has 37 MA's), (11, 34628), (13, 34409), (16, 34238),

Gene: Phatniss_43 Start: 34638, Stop: 34018, Start Num: 8
Candidate Starts for Phatniss_43:
(Start: 1 @34764 has 2 MA's), (Start: 2 @34758 has 30 MA's), (Start: 4 @34689 has 14 MA's), (Start: 8 @34638 has 19 MA's), (Start: 9 @34620 has 37 MA's), (11, 34590), (13, 34371), (16, 34200),

Gene: PhesterPhotato_47 Start: 35401, Stop: 34802, Start Num: 9
Candidate Starts for PhesterPhotato_47:
(Start: 4 @35470 has 14 MA's), (Start: 7 @35422 has 4 MA's), (Start: 9 @35401 has 37 MA's), (11, 35371), (12, 35215), (13, 35152), (14, 35119), (16, 34981),

Gene: Plumbus_45 Start: 34510, Stop: 33764, Start Num: 1
Candidate Starts for Plumbus_45:
(Start: 1 @34510 has 2 MA's), (Start: 2 @34504 has 30 MA's), (Start: 4 @34435 has 14 MA's), (Start: 8 @34384 has 19 MA's), (Start: 9 @34366 has 37 MA's), (11, 34336), (13, 34117), (16, 33946),

Gene: Polka14_44 Start: 35054, Stop: 34314, Start Num: 2
Candidate Starts for Polka14_44:
(Start: 1 @35060 has 2 MA's), (Start: 2 @35054 has 30 MA's), (Start: 4 @34985 has 14 MA's), (Start: 6 @34940 has 2 MA's), (Start: 8 @34934 has 19 MA's), (Start: 9 @34916 has 37 MA's), (11, 34886), (13, 34667), (16, 34496),

Gene: PopTart_41 Start: 34264, Stop: 33524, Start Num: 2
Candidate Starts for PopTart_41:
(Start: 1 @34270 has 2 MA's), (Start: 2 @34264 has 30 MA's), (Start: 8 @34144 has 19 MA's), (Start: 9 @34126 has 37 MA's), (11, 34096), (13, 33877), (16, 33706),

Gene: Priscilla_46 Start: 36136, Stop: 35396, Start Num: 2
Candidate Starts for Priscilla_46:
(Start: 1 @36142 has 2 MA's), (Start: 2 @36136 has 30 MA's), (Start: 4 @36067 has 14 MA's), (Start: 8 @36016 has 19 MA's), (Start: 9 @35998 has 37 MA's), (11, 35968), (13, 35749), (16, 35578),

Gene: RitaG_43 Start: 34608, Stop: 33982, Start Num: 6
Candidate Starts for RitaG_43:
(Start: 1 @34728 has 2 MA's), (Start: 2 @34722 has 30 MA's), (Start: 4 @34653 has 14 MA's), (Start: 6 @34608 has 2 MA's), (Start: 8 @34602 has 19 MA's), (Start: 9 @34584 has 37 MA's), (11, 34554), (13, 34335), (16, 34164),

Gene: Rockne_43 Start: 34183, Stop: 33512, Start Num: 4
Candidate Starts for Rockne_43:
(Start: 1 @34258 has 2 MA's), (Start: 2 @34252 has 30 MA's), (Start: 4 @34183 has 14 MA's), (Start: 8 @34132 has 19 MA's), (Start: 9 @34114 has 37 MA's), (11, 34084), (13, 33865), (16, 33694),

Gene: RockyHorror_46 Start: 34639, Stop: 33914, Start Num: 3
Candidate Starts for RockyHorror_46:
(Start: 1 @34660 has 2 MA's), (Start: 2 @34654 has 30 MA's), (Start: 3 @34639 has 3 MA's), (Start: 4 @34585 has 14 MA's), (Start: 8 @34534 has 19 MA's), (Start: 9 @34516 has 37 MA's), (11, 34486), (13, 34267), (16, 34096),

Gene: Ruby_44 Start: 35364, Stop: 34702, Start Num: 5
Candidate Starts for Ruby_44:
(Start: 5 @35364 has 1 MA's), (10, 35295), (11, 35274), (13, 35055), (16, 34884),

Gene: SG4_44 Start: 34827, Stop: 34228, Start Num: 9
Candidate Starts for SG4_44:
(Start: 4 @34896 has 14 MA's), (Start: 7 @34848 has 4 MA's), (Start: 9 @34827 has 37 MA's), (11, 34797), (12, 34641), (13, 34578), (14, 34545), (16, 34407),

Gene: SassyB_41 Start: 34264, Stop: 33524, Start Num: 2
Candidate Starts for SassyB_41:
(Start: 1 @34270 has 2 MA's), (Start: 2 @34264 has 30 MA's), (Start: 8 @34144 has 19 MA's), (Start: 9 @34126 has 37 MA's), (11, 34096), (13, 33877), (16, 33706),

Gene: Scottish_46 Start: 35596, Stop: 34994, Start Num: 9
Candidate Starts for Scottish_46:
(Start: 1 @35740 has 2 MA's), (Start: 2 @35734 has 30 MA's), (Start: 4 @35665 has 14 MA's), (Start: 6 @35620 has 2 MA's), (Start: 8 @35614 has 19 MA's), (Start: 9 @35596 has 37 MA's), (11, 35566), (13, 35347), (16, 35176),

Gene: Seabastian_47 Start: 35833, Stop: 35231, Start Num: 9
Candidate Starts for Seabastian_47:
(Start: 1 @35977 has 2 MA's), (Start: 2 @35971 has 30 MA's), (Start: 4 @35902 has 14 MA's), (Start: 8 @35851 has 19 MA's), (Start: 9 @35833 has 37 MA's), (11, 35803), (13, 35584), (16, 35413),

Gene: Seagreen_46 Start: 34859, Stop: 34257, Start Num: 9
Candidate Starts for Seagreen_46:
(Start: 9 @34859 has 37 MA's), (11, 34829), (13, 34610), (16, 34439),

Gene: Shauna1_40 Start: 33581, Stop: 32982, Start Num: 9
Candidate Starts for Shauna1_40:
(Start: 1 @33725 has 2 MA's), (Start: 2 @33719 has 30 MA's), (Start: 4 @33650 has 14 MA's), (Start: 8 @33599 has 19 MA's), (Start: 9 @33581 has 37 MA's), (11, 33551), (12, 33395), (13, 33332), (14, 33299), (16, 33161),

Gene: ShiLan_46 Start: 35945, Stop: 35343, Start Num: 9
Candidate Starts for ShiLan_46:
(Start: 1 @36089 has 2 MA's), (Start: 2 @36083 has 30 MA's), (Start: 4 @36014 has 14 MA's), (Start: 8 @35963 has 19 MA's), (Start: 9 @35945 has 37 MA's), (11, 35915), (13, 35696), (16, 35525),

Gene: ShowerHandel_48 Start: 35912, Stop: 35310, Start Num: 9
Candidate Starts for ShowerHandel_48:
(Start: 1 @36056 has 2 MA's), (Start: 2 @36050 has 30 MA's), (Start: 4 @35981 has 14 MA's), (Start: 8 @35930 has 19 MA's), (Start: 9 @35912 has 37 MA's), (11, 35882), (13, 35663), (16, 35492),

Gene: ShroomBoi_45 Start: 34851, Stop: 34183, Start Num: 4
Candidate Starts for ShroomBoi_45:

(Start: 4 @34851 has 14 MA's), (Start: 9 @34782 has 37 MA's), (11, 34752), (12, 34596), (13, 34533), (14, 34500), (16, 34362),

Gene: SilverChicken_55 Start: 35426, Stop: 34758, Start Num: 4
Candidate Starts for SilverChicken_55:
(Start: 4 @35426 has 14 MA's), (Start: 9 @35357 has 37 MA's), (11, 35327), (12, 35171), (13, 35108), (14, 35075), (16, 34937),

Gene: SimranZ1_45 Start: 34125, Stop: 33523, Start Num: 9
Candidate Starts for SimranZ1_45:
(Start: 1 @34269 has 2 MA's), (Start: 2 @34263 has 30 MA's), (Start: 4 @34194 has 14 MA's), (Start: 8 @34143 has 19 MA's), (Start: 9 @34125 has 37 MA's), (11, 34095), (13, 33876), (15, 33726), (16, 33705),

Gene: Sparkdehlily_48 Start: 35654, Stop: 34914, Start Num: 2
Candidate Starts for Sparkdehlily_48:
(Start: 1 @35660 has 2 MA's), (Start: 2 @35654 has 30 MA's), (Start: 4 @35585 has 14 MA's), (Start: 8 @35534 has 19 MA's), (Start: 9 @35516 has 37 MA's), (11, 35486), (13, 35267), (16, 35096),

Gene: Spoonbill_45 Start: 34607, Stop: 33936, Start Num: 4
Candidate Starts for Spoonbill_45:
(Start: 1 @34682 has 2 MA's), (Start: 2 @34676 has 30 MA's), (Start: 4 @34607 has 14 MA's), (Start: 6 @34562 has 2 MA's), (Start: 8 @34556 has 19 MA's), (Start: 9 @34538 has 37 MA's), (11, 34508), (13, 34289), (16, 34118),

Gene: StAnnes_45 Start: 36046, Stop: 35447, Start Num: 9
Candidate Starts for StAnnes_45:
(Start: 4 @36115 has 14 MA's), (Start: 9 @36046 has 37 MA's), (11, 36016), (12, 35860), (13, 35797), (14, 35764), (16, 35626),

Gene: Stap_44 Start: 34554, Stop: 33814, Start Num: 2
Candidate Starts for Stap_44:
(Start: 1 @34560 has 2 MA's), (Start: 2 @34554 has 30 MA's), (Start: 3 @34539 has 3 MA's), (Start: 4 @34485 has 14 MA's), (Start: 8 @34434 has 19 MA's), (Start: 9 @34416 has 37 MA's), (11, 34386), (13, 34167), (16, 33996),

Gene: TDanisky_48 Start: 35534, Stop: 34914, Start Num: 8
Candidate Starts for TDanisky_48:
(Start: 1 @35660 has 2 MA's), (Start: 2 @35654 has 30 MA's), (Start: 4 @35585 has 14 MA's), (Start: 8 @35534 has 19 MA's), (Start: 9 @35516 has 37 MA's), (11, 35486), (13, 35267), (16, 35096),

Gene: Taj_47 Start: 35103, Stop: 34483, Start Num: 8
Candidate Starts for Taj_47:
(Start: 1 @35229 has 2 MA's), (Start: 2 @35223 has 30 MA's), (Start: 4 @35154 has 14 MA's), (Start: 8 @35103 has 19 MA's), (Start: 9 @35085 has 37 MA's), (11, 35055), (13, 34836), (16, 34665),

Gene: Tchotchke_47 Start: 34484, Stop: 33813, Start Num: 4
Candidate Starts for Tchotchke_47:
(Start: 1 @34559 has 2 MA's), (Start: 2 @34553 has 30 MA's), (Start: 4 @34484 has 14 MA's), (Start: 8 @34433 has 19 MA's), (Start: 9 @34415 has 37 MA's), (11, 34385), (13, 34166), (16, 33995),

Gene: Tootsieroll_47 Start: 34724, Stop: 34104, Start Num: 8
Candidate Starts for Tootsieroll_47:

(Start: 1 @34850 has 2 MA's), (Start: 2 @34844 has 30 MA's), (Start: 4 @34775 has 14 MA's), (Start: 8 @34724 has 19 MA's), (Start: 9 @34706 has 37 MA's), (11, 34676), (13, 34457), (16, 34286),

Gene: Topiatin_50 Start: 36322, Stop: 35582, Start Num: 2
Candidate Starts for Topiatin_50:
(Start: 1 @36328 has 2 MA's), (Start: 2 @36322 has 30 MA's), (Start: 4 @36253 has 14 MA's), (Start: 8 @36202 has 19 MA's), (Start: 9 @36184 has 37 MA's), (11, 36154), (13, 35935), (16, 35764),

Gene: VRedHorse_46 Start: 35313, Stop: 34693, Start Num: 7
Candidate Starts for VRedHorse_46:
(Start: 4 @35361 has 14 MA's), (Start: 7 @35313 has 4 MA's), (Start: 9 @35292 has 37 MA's), (11, 35262), (12, 35106), (13, 35043), (14, 35010), (16, 34872),

Gene: XFactor_44 Start: 34845, Stop: 34177, Start Num: 4
Candidate Starts for XFactor_44:
(Start: 4 @34845 has 14 MA's), (Start: 9 @34776 has 37 MA's), (11, 34746), (12, 34590), (13, 34527), (16, 34356),

Gene: Yorick_43 Start: 34763, Stop: 34023, Start Num: 2
Candidate Starts for Yorick_43:
(Start: 1 @34769 has 2 MA's), (Start: 2 @34763 has 30 MA's), (Start: 4 @34694 has 14 MA's), (Start: 8 @34643 has 19 MA's), (Start: 9 @34625 has 37 MA's), (11, 34595), (13, 34376), (16, 34205),

Gene: Zerg_44 Start: 34625, Stop: 34023, Start Num: 9
Candidate Starts for Zerg_44:
(Start: 1 @34769 has 2 MA's), (Start: 2 @34763 has 30 MA's), (Start: 3 @34748 has 3 MA's), (Start: 4 @34694 has 14 MA's), (Start: 8 @34643 has 19 MA's), (Start: 9 @34625 has 37 MA's), (11, 34595), (13, 34376), (16, 34205),