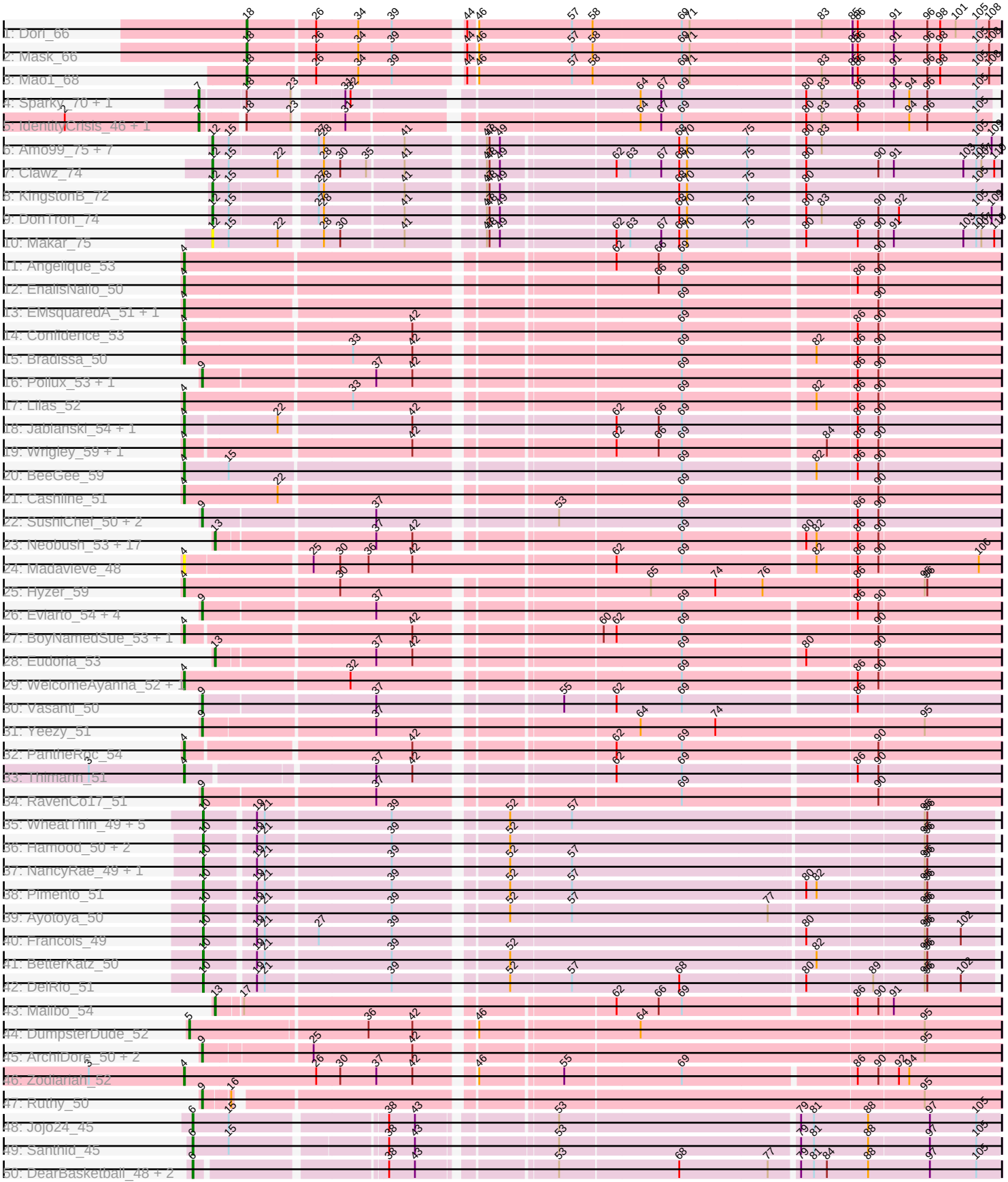
Pham 341922


1: Don_66
2: Mask_66
3: Mao1_68
4: Sparky_70 + 1
5: IdentityCrisis_46 + 1
6: Amo99_75 + 7
7: Clawz_74
8: KingstonB_72
9: DonTron_74
10: Makar_75
11: Angelique_53
12: EnalisNallo_50
13: EMsquaredA_51 + 1
14: Confidence_53
15: Bradissa_50
16: Pollux_53 + 1
17: Lilas_52
18: Jablanski_54 + 1
19: Wrigley_59 + 1
20: BeeGee_59
21: Cashline_51
22: SushiChef_50 + 2
23: Neobush_53 + 17
24: Madavieve_48
25: Hyzer_59
26: Evlarto_54 + 4
27: BoyNamedSue_53 + 1
28: Eudoria_53
29: WelcomeAyanna_52 + 1
30: Vasanti_50
31: Yeezy_51
32: PantheRqc_54
33: Thimann_51
34: RavenCo17_51
35: WheatThin_49 + 5
36: Hamood_50 + 2
37: NancyRae_49 + 1
38: Pimento_51
39: Ayotoya_50
40: Francois_49
41: BetterKatz_50
42: DelRio_51
43: Malibo_54
44: DumpsterDude_52
45: ArchiDoc_50 + 2
46: Zodiarian_52
47: Ruthy_50
48: Jojo24_45
49: Santhid_45
50: DearBasketball_48 + 2

Pham 341922


51: Hibiscus_47 + 1
52: Tarzan_46
53: KayMoney_51 + 1
54: Bridgette_53 + 1
55: Pucara_48 + 1
56: NiddoQ_48
57: LittleRon_48
58: NikkiHotWheels_51 + 3
59: Judy_54 + 1
60: RootBeer_41
61: LilyBell_52
62: ChuckDuck_51
63: NoSwimming_46
64: Scotia_44
65: Phayonce_50
66: Tonitrus_61
67: TPA4_49

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 341922 Report

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

Pham number 341922 has 125 members, 18 are drafts.

Phages represented in each track:
- Track 1 : Dori_66
- Track 2 : Mask_66
- Track 3 : Mao1_68
- Track 4 : Sparky_70, Farewell_71
- Track 5 : IdentityCrisis_46, WST1_47
- Track 6 : Amo99_75, Sting_73, Purplicious_73, Stillion_73, Grumio_74, Jollymon_74, ColdSoup_75, Soos_70
- Track 7 : Clawz_74
- Track 8 : KingstonB_72
- Track 9 : DonTron_74
- Track 10 : Makar_75
- Track 11 : Angelique_53
- Track 12 : EnalisNailo_50
- Track 13 : EMsquaredA_51, Marteena_50
- Track 14 : Confidence_53
- Track 15 : Bradissa_50
- Track 16 : Pollux_53, Floral_51
- Track 17 : Lilas_52
- Track 18 : Jablanski_54, Pytheas_54
- Track 19 : Wrigley_59, Posh_57
- Track 20 : BeeGee_59
- Track 21 : Cashline_51
- Track 22 : SushiChef_50, Maridalia_54, Bunnybear_46
- Track 23 : Neobush_53, Antonio_53, Bialota_51, Kita_54, Pickett_46, Manasvini_54, Trumpet_53, Yeet412_48, Polly_50, LordFarquaad_50, Dillpickles_58, EdnaMode_47, Tayonia_53, SoilAssassin_48, Zirinka_50, Zameen_53, Attis_48, Suscepit_53
- Track 24 : Madavieve_48
- Track 25 : Hyzer_59
- Track 26 : Eviarto_54, BatStarr_53, Nymphadora_54, TimTam_54, Hugley_50
- Track 27 : BoyNamedSue_53, AlumE_53
- Track 28 : Eudoria_53
- Track 29 : WelcomeAyanna_52, ThankyouJordi_52
- Track 30 : Vasanti_50
- Track 31 : Yeezy_51
- Track 32 : PantheRoc_54
- Track 33 : Thimann_51

• Track 34 : RavenCo17_51
• Track 35 : WheatThin_49, Mulch_50, Nadeem_50, SussRoloMann_50, Brylie_50, Parada_50
• Track 36 : Hamood_50, Chop_50, GrandSlam_50
• Track 37 : NancyRae_49, Bock_50
• Track 38 : Pimento_51
• Track 39 : Ayotoya_50
• Track 40 : Francois_49
• Track 41 : BetterKatz_50
• Track 42 : DelRio_51
• Track 43 : Malibo_54
• Track 44 : DumpsterDude_52
• Track 45 : ArchiDore_50, BaxterFox_54, Madeline_51
• Track 46 : Zodiariah_52
• Track 47 : Ruthy_50
• Track 48 : Jojo24_45
• Track 49 : Santhid_45
• Track 50 : DearBasketball_48, DinoNuggs_46, Reyja_46
• Track 51 : Hibiscus_47, Heinz_46
• Track 52 : Tarzan_46
• Track 53 : KayMoney_51, Constance_51
• Track 54 : Bridgette_53, Karkharias_50
• Track 55 : Pucara_48, PeggyLeg03_51
• Track 56 : NidoQ_48
• Track 57 : LittleRon_48
• Track 58 : NikkiHotWheels_51, Peas_50, Henrique_51, HotPotato_51
• Track 59 : Judy_54, GlobiWarming_53
• Track 60 : RootBeer_41
• Track 61 : LilyBell_52
• Track 62 : ChuckDuck_51
• Track 63 : NoSwimming_46
• Track 64 : Scotia_44
• Track 65 : Phayonce_50
• Track 66 : Tonitrus_61
• Track 67 : TPA4_49

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

The start number called the most often in the published annotations is 4, it was called in 21 of the 107 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlumE_53, Angelique_53, BeeGee_59, BoyNamedSue_53, Bradissa_50, Cashline_51, Confidence_53, EMsquaredA_51, EnalisNailo_50, Hyzer_59, Jablanski_54, Lilas_52, Madavieve_48, Marteena_50, PantheRoc_54, Posh_57, Pytheas_54, ThankyouJordi_52, Thimann_51, WelcomeAyanna_52, Wrigley_59, Zodiariah_52,

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

Genes that do not have the "Most Annotated" start:
• Amo99_75, Antonio_53, ArchiDore_50, Attis_48, Ayotoya_50, BatStarr_53, BaxterFox_54, BetterKatz_50, Bialota_51, Bock_50, Bridgette_53, Brylie_50, Bunnybear_46, Chop_50, ChuckDuck_51, Clawz_74, ColdSoup_75, Constance_51, DearBasketball_48, DelRio_51, Dillpickles_58, DinoNuggs_46, DonTron_74, Dori_66, DumpsterDude_52, EdnaMode_47, Eudoria_53, Eviarto_54, Farewell_71, Floral_51, Francois_49, GlobiWarming_53, GrandSlam_50, Grumio_74, Hamood_50, Heinz_46, Henrique_51, Hibiscus_47, HotPotato_51, Hugley_50, IdentityCrisis_46, Jojo24_45, Jollymon_74, Judy_54, Karkharias_50, KayMoney_51, KingstonB_72, Kita_54, LilyBell_52, LittleRon_48, LordFarquaad_50, Madeline_51, Makar_75, Malibo_54, Manasvini_54, Mao1_68, Maridalia_54, Mask_66, Mulch_50, Nadeem_50, NancyRae_49, Neobush_53, NidoQ_48, NikkiHotWheels_51, NoSwimming_46, Nymphadora_54, Parada_50, Peas_50, PeggyLeg03_51, Phayonce_50, Pickett_46, Pimento_51, Pollux_53, Polly_50, Pucara_48, Purplicious_73, RavenCo17_51, Reyja_46, RootBeer_41, Ruthy_50, Santhid_45, Scotia_44, SoilAssassin_48, Soos_70, Sparky_70, Stillion_73, Sting_73, Suscepit_53, SushiChef_50, SussRoloMann_50, TPA4_49, Tarzan_46, Tayonia_53, TimTam_54, Tonitrus_61, Trumpet_53, Vasanti_50, WST1_47, WheatThin_49, Yeet412_48, Yeezy_51, Zameen_53, Zirinka_50,

Summary by start number:

Start 4:
• Found in 22 of 125 (17.6%) of genes in pham
• Manual Annotations of this start: 21 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AlumE_53 (CZ1), Angelique_53 (CY1), BeeGee_59 (CY5), BoyNamedSue_53 (CZ1), Bradissa_50 (CY1), Cashline_51 (CY6), Confidence_53 (CY1), EMsquaredA_51 (CY1), EnalisNailo_50 (CY1), Hyzer_59 (CZ1), Jablanski_54 (CY3), Lilas_52 (CY1), Madavieve_48 (CZ1), Marteena_50 (CY1), PantheRoc_54 (CZ3), Posh_57 (CY4), Pytheas_54 (CY3), ThankyouJordi_52 (CZ1), Thimann_51 (CZ4), WelcomeAyanna_52 (CZ1), Wrigley_59 (CY4), Zodiariah_52 (DW),

Start 5:
• Found in 1 of 125 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DumpsterDude_52 (DW),

Start 6:
• Found in 8 of 125 (6.4%) of genes in pham
• Manual Annotations of this start: 6 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DearBasketball_48 (DY), DinoNuggs_46 (DY), Heinz_46 (DY), Hibiscus_47 (DY), Jojo24_45 (DY), Reyja_46 (DY), Santhid_45 (DY), Tarzan_46 (DY),

Start 7:
• Found in 4 of 125 (3.2%) of genes in pham
• Manual Annotations of this start: 3 of 107
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Farewell_71 (AF), IdentityCrisis_46 (AJ), Sparky_70 (AF), WST1_47 (AJ),

Start 8:
• Found in 11 of 125 (8.8%) of genes in pham
• Manual Annotations of this start: 9 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bridgette_53 (FA), ChuckDuck_51 (FA), Henrique_51 (FA), HotPotato_51 (FA), Karkharias_50 (FA), NidoQ_48 (FA), NikkiHotWheels_51 (FA), Peas_50 (FA), PeggyLeg03_51 (FA), Pucara_48 (FA), RootBeer_41 (FA),

Start 9:
• Found in 17 of 125 (13.6%) of genes in pham
• Manual Annotations of this start: 15 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArchiDore_50 (DW), BatStarr_53 (CZ1), BaxterFox_54 (CZ3), Bunnybear_46 (CZ), Eviarto_54 (CZ1), Floral_51 (CY1), Hugley_50 (CZ1), Madeline_51 (CZ1), Maridalia_54 (CZ1), Nymphadora_54 (CZ1), Pollux_53 (CY1), RavenCo17_51 (CZ8), Ruthy_50 (DW), SushiChef_50 (CZ), TimTam_54 (CZ1), Vasanti_50 (CZ2), Yeezy_51 (CZ3),

Start 10:
• Found in 16 of 125 (12.8%) of genes in pham
• Manual Annotations of this start: 15 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayotoya_50 (DI), BetterKatz_50 (DI), Bock_50 (DI), Brylie_50 (DI), Chop_50 (DI), DelRio_51 (DI), Francois_49 (DI), GrandSlam_50 (DI), Hamood_50 (DI), Mulch_50 (DI), Nadeem_50 (DI), NancyRae_49 (DI), Parada_50 (DI), Pimento_51 (DI), SussRoloMann_50 (DI), WheatThin_49 (DI),

Start 11:
• Found in 1 of 125 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NoSwimming_46 (FO),

Start 12:
• Found in 13 of 125 (10.4%) of genes in pham
• Manual Annotations of this start: 8 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_75 (CP), Clawz_74 (CP), ColdSoup_75 (CP), DonTron_74 (CP), Grumio_74 (CP), Jollymon_74 (CP), KingstonB_72 (CP), Makar_75 (CP), Purplicious_73 (CP), Soos_70 (CP), Stillion_73 (CP), Sting_73 (CP), Tonitrus_61 (singleton),

Start 13:
• Found in 20 of 125 (16.0%) of genes in pham
• Manual Annotations of this start: 19 of 107
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antonio_53 (CZ1), Attis_48 (CZ2), Bialota_51 (CZ1), Dillpickles_58 (CZ1), EdnaMode_47 (CZ2), Eudoria_53 (CZ1),

Kita_54 (CZ1), LordFarquaad_50 (CZ2), Malibo_54 (DW), Manasvini_54 (CZ1), Neobush_53 (CZ1), Pickett_46 (CZ2), Polly_50 (CZ1), SoilAssassin_48 (CZ2), Suscepit_53 (CZ1), Tayonia_53 (CZ1), Trumpet_53 (CZ1), Yeet412_48 (CZ2), Zameen_53 (CZ1), Zirinka_50 (CZ1),

Start 14:
• Found in 1 of 125 (0.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA4_49 (singleton),

Start 16:
• Found in 8 of 125 (6.4%) of genes in pham
• Manual Annotations of this start: 5 of 107
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Constance_51 (FA), GlobiWarming_53 (FA), Judy_54 (FA), KayMoney_51 (FA), LilyBell_52 (FA), LittleRon_48 (FA), Scotia_44 (FO),

Start 18:
• Found in 8 of 125 (6.4%) of genes in pham
• Manual Annotations of this start: 4 of 107
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Dori_66 (AD), Mao1_68 (AD), Mask_66 (AD), Phayonce_50 (P5),

Summary by clusters:

There are 22 clusters represented in this pham: CZ8, DI, CZ2, CZ3, CZ1, singleton, CZ4, FA, DY, DW, FO, P5, CY3, CY1, CY6, CY5, AF, AJ, CZ, AD, CP, CY4,

Info for manual annotations of cluster AD:
•Start number 18 was manually annotated 3 times for cluster AD.

Info for manual annotations of cluster AF:
•Start number 7 was manually annotated 2 times for cluster AF.

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

Info for manual annotations of cluster CP:
•Start number 12 was manually annotated 7 times for cluster CP.

Info for manual annotations of cluster CY1:
•Start number 4 was manually annotated 7 times for cluster CY1.
•Start number 9 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CY3:
•Start number 4 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:
•Start number 4 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 4 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 4 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CZ:
•Start number 9 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 4 was manually annotated 5 times for cluster CZ1.
•Start number 9 was manually annotated 6 times for cluster CZ1.
•Start number 13 was manually annotated 12 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 9 was manually annotated 1 time for cluster CZ2.
•Start number 13 was manually annotated 6 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 4 was manually annotated 1 time for cluster CZ3.
•Start number 9 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 4 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ8:
•Start number 9 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DI:
•Start number 10 was manually annotated 15 times for cluster DI.

Info for manual annotations of cluster DW:
•Start number 4 was manually annotated 1 time for cluster DW.
•Start number 5 was manually annotated 1 time for cluster DW.
•Start number 9 was manually annotated 2 times for cluster DW.
•Start number 13 was manually annotated 1 time for cluster DW.

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

Info for manual annotations of cluster FA:
•Start number 8 was manually annotated 9 times for cluster FA.
•Start number 16 was manually annotated 4 times for cluster FA.

Info for manual annotations of cluster FO:
•Start number 11 was manually annotated 1 time for cluster FO.
•Start number 16 was manually annotated 1 time for cluster FO.

Info for manual annotations of cluster P5:
•Start number 18 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: AlumE_53 Start: 38055, Stop: 38939, Start Num: 4
Candidate Starts for AlumE_53:
(Start: 4 @38055 has 21 MA's), (42, 38304), (60, 38493), (62, 38508), (69, 38583), (90, 38799),

Gene: Amo99_75 Start: 48879, Stop: 49730, Start Num: 12
Candidate Starts for Amo99_75:
(Start: 12 @48879 has 8 MA's), (15, 48897), (27, 48987), (28, 48993), (41, 49080), (47, 49158), (48, 49161), (49, 49173), (68, 49368), (70, 49377), (75, 49446), (80, 49506), (83, 49524), (105, 49701), (109, 49719),

Gene: Angelique_53 Start: 39273, Stop: 40166, Start Num: 4
Candidate Starts for Angelique_53:
(Start: 4 @39273 has 21 MA's), (62, 39735), (66, 39783), (69, 39810), (90, 40026),

Gene: Antonio_53 Start: 37328, Stop: 38179, Start Num: 13
Candidate Starts for Antonio_53:
(Start: 13 @37328 has 19 MA's), (37, 37502), (42, 37544), (69, 37823), (80, 37958), (82, 37970), (86, 38015), (90, 38039),

Gene: ArchiDore_50 Start: 38360, Stop: 39235, Start Num: 9
Candidate Starts for ArchiDore_50:
(Start: 9 @38360 has 15 MA's), (25, 38477), (42, 38591), (95, 39146),

Gene: Attis_48 Start: 34461, Stop: 35312, Start Num: 13
Candidate Starts for Attis_48:
(Start: 13 @34461 has 19 MA's), (37, 34635), (42, 34677), (69, 34956), (80, 35091), (82, 35103), (86, 35148), (90, 35172),

Gene: Ayotoya_50 Start: 36390, Stop: 37253, Start Num: 10
Candidate Starts for Ayotoya_50:
(Start: 10 @36390 has 15 MA's), (19, 36444), (21, 36453), (39, 36594), (52, 36711), (57, 36780), (77, 37005), (95, 37173), (96, 37176),

Gene: BatStarr_53 Start: 39301, Stop: 40170, Start Num: 9
Candidate Starts for BatStarr_53:
(Start: 9 @39301 has 15 MA's), (37, 39493), (69, 39814), (86, 40006), (90, 40030),

Gene: BaxterFox_54 Start: 39130, Stop: 40005, Start Num: 9
Candidate Starts for BaxterFox_54:
(Start: 9 @39130 has 15 MA's), (25, 39247), (42, 39361), (95, 39916),

Gene: BeeGee_59 Start: 39213, Stop: 40106, Start Num: 4
Candidate Starts for BeeGee_59:
(Start: 4 @39213 has 21 MA's), (15, 39264), (69, 39750), (82, 39897), (86, 39942), (90, 39966),

Gene: BetterKatz_50 Start: 35876, Stop: 36739, Start Num: 10
Candidate Starts for BetterKatz_50:
(Start: 10 @35876 has 15 MA's), (19, 35930), (21, 35939), (39, 36080), (52, 36197), (82, 36539), (95, 36659), (96, 36662),

Gene: Bialota_51 Start: 37960, Stop: 38811, Start Num: 13

Candidate Starts for Bialota_51:
(Start: 13 @37960 has 19 MA's), (37, 38134), (42, 38176), (69, 38455), (80, 38590), (82, 38602), (86, 38647), (90, 38671),

Gene: Bock_50 Start: 35610, Stop: 36473, Start Num: 10
Candidate Starts for Bock_50:
(Start: 10 @35610 has 15 MA's), (19, 35664), (21, 35673), (39, 35814), (52, 35931), (57, 36000), (95, 36393), (96, 36396),

Gene: BoyNamedSue_53 Start: 38055, Stop: 38939, Start Num: 4
Candidate Starts for BoyNamedSue_53:
(Start: 4 @38055 has 21 MA's), (42, 38304), (60, 38493), (62, 38508), (69, 38583), (90, 38799),

Gene: Bradissa_50 Start: 38423, Stop: 39316, Start Num: 4
Candidate Starts for Bradissa_50:
(Start: 4 @38423 has 21 MA's), (33, 38612), (42, 38681), (69, 38960), (82, 39107), (86, 39152), (90, 39176),

Gene: Bridgette_53 Start: 33693, Stop: 34538, Start Num: 8
Candidate Starts for Bridgette_53:
(Start: 8 @33693 has 9 MA's), (45, 33963), (72, 34209), (86, 34377),

Gene: Brylie_50 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for Brylie_50:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: Bunnybear_46 Start: 35755, Stop: 36624, Start Num: 9
Candidate Starts for Bunnybear_46:
(Start: 9 @35755 has 15 MA's), (37, 35947), (53, 36130), (69, 36268), (86, 36460), (90, 36484),

Gene: Cashline_51 Start: 38564, Stop: 39454, Start Num: 4
Candidate Starts for Cashline_51:
(Start: 4 @38564 has 21 MA's), (22, 38672), (69, 39098), (90, 39314),

Gene: Chop_50 Start: 36140, Stop: 37003, Start Num: 10
Candidate Starts for Chop_50:
(Start: 10 @36140 has 15 MA's), (19, 36194), (21, 36203), (39, 36344), (52, 36461), (95, 36923), (96, 36926),

Gene: ChuckDuck_51 Start: 32702, Stop: 33550, Start Num: 8
Candidate Starts for ChuckDuck_51:
(Start: 8 @32702 has 9 MA's), (19, 32762), (40, 32906), (62, 33122), (72, 33221), (99, 33488),

Gene: Clawz_74 Start: 48756, Stop: 49607, Start Num: 12
Candidate Starts for Clawz_74:
(Start: 12 @48756 has 8 MA's), (15, 48774), (22, 48831), (28, 48873), (30, 48891), (35, 48921), (41, 48960), (47, 49038), (48, 49041), (49, 49053), (62, 49176), (63, 49191), (67, 49227), (68, 49248), (70, 49257), (75, 49326), (80, 49386), (90, 49470), (91, 49485), (103, 49566), (105, 49581), (107, 49587), (110, 49602),

Gene: ColdSoup_75 Start: 48960, Stop: 49811, Start Num: 12
Candidate Starts for ColdSoup_75:

(Start: 12 @48960 has 8 MA's), (15, 48978), (27, 49068), (28, 49074), (41, 49161), (47, 49239), (48, 49242), (49, 49254), (68, 49449), (70, 49458), (75, 49527), (80, 49587), (83, 49605), (105, 49782), (109, 49800),

Gene: Confidence_53 Start: 36720, Stop: 37613, Start Num: 4
Candidate Starts for Confidence_53:
(Start: 4 @36720 has 21 MA's), (42, 36978), (69, 37257), (86, 37449), (90, 37473),

Gene: Constance_51 Start: 33323, Stop: 34138, Start Num: 16
Candidate Starts for Constance_51:
(Start: 16 @33323 has 5 MA's), (54, 33650), (72, 33809), (73, 33821), (86, 33977), (104, 34109),

Gene: DearBasketball_48 Start: 31258, Stop: 32121, Start Num: 6
Candidate Starts for DearBasketball_48:
(Start: 6 @31258 has 6 MA's), (38, 31456), (43, 31486), (53, 31624), (68, 31759), (77, 31861), (79, 31891), (81, 31906), (84, 31921), (88, 31969), (97, 32041), (105, 32095),

Gene: DelRio_51 Start: 36854, Stop: 37717, Start Num: 10
Candidate Starts for DelRio_51:
(Start: 10 @36854 has 15 MA's), (19, 36908), (21, 36917), (39, 37058), (52, 37175), (57, 37244), (68, 37367), (80, 37505), (89, 37580), (95, 37637), (96, 37640), (102, 37679),

Gene: Dillpickles_58 Start: 37372, Stop: 38223, Start Num: 13
Candidate Starts for Dillpickles_58:
(Start: 13 @37372 has 19 MA's), (37, 37546), (42, 37588), (69, 37867), (80, 38002), (82, 38014), (86, 38059), (90, 38083),

Gene: DinoNuggs_46 Start: 30927, Stop: 31790, Start Num: 6
Candidate Starts for DinoNuggs_46:
(Start: 6 @30927 has 6 MA's), (38, 31125), (43, 31155), (53, 31293), (68, 31428), (77, 31530), (79, 31560), (81, 31575), (84, 31590), (88, 31638), (97, 31710), (105, 31764),

Gene: DonTron_74 Start: 48997, Stop: 49848, Start Num: 12
Candidate Starts for DonTron_74:
(Start: 12 @48997 has 8 MA's), (15, 49015), (27, 49105), (28, 49111), (41, 49198), (47, 49276), (48, 49279), (49, 49291), (68, 49486), (70, 49495), (75, 49564), (80, 49624), (83, 49642), (90, 49708), (92, 49729), (105, 49819), (109, 49837),

Gene: Dori_66 Start: 51686, Stop: 52519, Start Num: 18
Candidate Starts for Dori_66:
(Start: 18 @51686 has 4 MA's), (26, 51761), (34, 51809), (39, 51848), (44, 51920), (46, 51929), (57, 52037), (58, 52061), (69, 52163), (71, 52172), (83, 52319), (85, 52352), (86, 52358), (91, 52397), (96, 52436), (98, 52451), (101, 52469), (105, 52493), (108, 52508),

Gene: DumpsterDude_52 Start: 40585, Stop: 41478, Start Num: 5
Candidate Starts for DumpsterDude_52:
(Start: 5 @40585 has 1 MA's), (36, 40783), (42, 40834), (46, 40891), (64, 41065), (95, 41389),

Gene: EMsquaredA_51 Start: 37224, Stop: 38114, Start Num: 4
Candidate Starts for EMsquaredA_51:
(Start: 4 @37224 has 21 MA's), (69, 37758), (90, 37974),

Gene: EdnaMode_47 Start: 33149, Stop: 34000, Start Num: 13

Candidate Starts for EdnaMode_47:
(Start: 13 @33149 has 19 MA's), (37, 33323), (42, 33365), (69, 33644), (80, 33779), (82, 33791), (86, 33836), (90, 33860),

Gene: EnalisNailo_50 Start: 37936, Stop: 38829, Start Num: 4
Candidate Starts for EnalisNailo_50:
(Start: 4 @37936 has 21 MA's), (66, 38446), (69, 38473), (86, 38665), (90, 38689),

Gene: Eudoria_53 Start: 37328, Stop: 38179, Start Num: 13
Candidate Starts for Eudoria_53:
(Start: 13 @37328 has 19 MA's), (37, 37502), (42, 37544), (69, 37823), (80, 37958), (90, 38039),

Gene: Eviarto_54 Start: 39276, Stop: 40145, Start Num: 9
Candidate Starts for Eviarto_54:
(Start: 9 @39276 has 15 MA's), (37, 39468), (69, 39789), (86, 39981), (90, 40005),

Gene: Farewell_71 Start: 48032, Stop: 48883, Start Num: 7
Candidate Starts for Farewell_71:
(Start: 7 @48032 has 3 MA's), (Start: 18 @48080 has 4 MA's), (23, 48131), (31, 48179), (32, 48185), (64, 48485), (67, 48509), (69, 48533), (80, 48671), (83, 48689), (86, 48731), (91, 48770), (94, 48788), (96, 48809), (105, 48866),

Gene: Floral_51 Start: 38684, Stop: 39553, Start Num: 9
Candidate Starts for Floral_51:
(Start: 9 @38684 has 15 MA's), (37, 38876), (42, 38918), (69, 39197), (86, 39389), (90, 39413),

Gene: Francois_49 Start: 35662, Stop: 36525, Start Num: 10
Candidate Starts for Francois_49:
(Start: 10 @35662 has 15 MA's), (19, 35716), (21, 35725), (27, 35782), (39, 35866), (80, 36313), (95, 36445), (96, 36448), (102, 36487),

Gene: GlobiWarming_53 Start: 33087, Stop: 33893, Start Num: 16
Candidate Starts for GlobiWarming_53:
(Start: 16 @33087 has 5 MA's), (52, 33354), (61, 33462), (86, 33732), (104, 33864),

Gene: GrandSlam_50 Start: 36140, Stop: 37003, Start Num: 10
Candidate Starts for GrandSlam_50:
(Start: 10 @36140 has 15 MA's), (19, 36194), (21, 36203), (39, 36344), (52, 36461), (95, 36923), (96, 36926),

Gene: Grumio_74 Start: 48438, Stop: 49289, Start Num: 12
Candidate Starts for Grumio_74:
(Start: 12 @48438 has 8 MA's), (15, 48456), (27, 48546), (28, 48552), (41, 48639), (47, 48717), (48, 48720), (49, 48732), (68, 48927), (70, 48936), (75, 49005), (80, 49065), (83, 49083), (105, 49260), (109, 49278),

Gene: Hamood_50 Start: 36140, Stop: 37003, Start Num: 10
Candidate Starts for Hamood_50:
(Start: 10 @36140 has 15 MA's), (19, 36194), (21, 36203), (39, 36344), (52, 36461), (95, 36923), (96, 36926),

Gene: Heinz_46 Start: 29864, Stop: 30724, Start Num: 6
Candidate Starts for Heinz_46:

(Start: 6 @29864 has 6 MA's), (36, 30047), (38, 30062), (41, 30080), (43, 30092), (53, 30230), (68, 30365), (79, 30497), (81, 30512), (88, 30575), (97, 30644), (105, 30698),

Gene: Henrique_51 Start: 32575, Stop: 33423, Start Num: 8
Candidate Starts for Henrique_51:
(Start: 8 @32575 has 9 MA's), (62, 32995), (72, 33094), (73, 33106),

Gene: Hibiscus_47 Start: 29813, Stop: 30673, Start Num: 6
Candidate Starts for Hibiscus_47:
(Start: 6 @29813 has 6 MA's), (36, 29996), (38, 30011), (41, 30029), (43, 30041), (53, 30179), (68, 30314), (79, 30446), (81, 30461), (88, 30524), (97, 30593), (105, 30647),

Gene: HotPotato_51 Start: 33740, Stop: 34588, Start Num: 8
Candidate Starts for HotPotato_51:
(Start: 8 @33740 has 9 MA's), (62, 34160), (72, 34259), (73, 34271),

Gene: Hugley_50 Start: 39300, Stop: 40169, Start Num: 9
Candidate Starts for Hugley_50:
(Start: 9 @39300 has 15 MA's), (37, 39492), (69, 39813), (86, 40005), (90, 40029),

Gene: Hyzer_59 Start: 40629, Stop: 41531, Start Num: 4
Candidate Starts for Hyzer_59:
(Start: 4 @40629 has 21 MA's), (30, 40803), (65, 41130), (74, 41205), (76, 41259), (86, 41367), (95, 41442), (96, 41445),

Gene: IdentityCrisis_46 Start: 30184, Stop: 31029, Start Num: 7
Candidate Starts for IdentityCrisis_46:
(2, 30028), (Start: 7 @30184 has 3 MA's), (Start: 18 @30226 has 4 MA's), (23, 30277), (31, 30325), (64, 30631), (67, 30655), (69, 30679), (80, 30817), (83, 30835), (86, 30877), (94, 30934), (96, 30955), (105, 31012),

Gene: Jablanski_54 Start: 40313, Stop: 41197, Start Num: 4
Candidate Starts for Jablanski_54:
(Start: 4 @40313 has 21 MA's), (22, 40415), (42, 40562), (62, 40766), (66, 40814), (69, 40841), (86, 41033), (90, 41057),

Gene: Jojo24_45 Start: 30491, Stop: 31363, Start Num: 6
Candidate Starts for Jojo24_45:
(Start: 6 @30491 has 6 MA's), (15, 30533), (38, 30698), (43, 30728), (53, 30866), (79, 31133), (81, 31148), (88, 31211), (97, 31283), (105, 31337),

Gene: Jollymon_74 Start: 48960, Stop: 49811, Start Num: 12
Candidate Starts for Jollymon_74:
(Start: 12 @48960 has 8 MA's), (15, 48978), (27, 49068), (28, 49074), (41, 49161), (47, 49239), (48, 49242), (49, 49254), (68, 49449), (70, 49458), (75, 49527), (80, 49587), (83, 49605), (105, 49782), (109, 49800),

Gene: Judy_54 Start: 34155, Stop: 34961, Start Num: 16
Candidate Starts for Judy_54:
(Start: 16 @34155 has 5 MA's), (52, 34422), (61, 34530), (86, 34800), (104, 34932),

Gene: Karkharias_50 Start: 33234, Stop: 34079, Start Num: 8
Candidate Starts for Karkharias_50:

(Start: 8 @33234 has 9 MA's), (45, 33504), (72, 33750), (86, 33918),

Gene: KayMoney_51 Start: 32666, Stop: 33481, Start Num: 16
Candidate Starts for KayMoney_51:
(Start: 16 @32666 has 5 MA's), (54, 32993), (72, 33152), (73, 33164), (86, 33320), (104, 33452),

Gene: KingstonB_72 Start: 48435, Stop: 49286, Start Num: 12
Candidate Starts for KingstonB_72:
(Start: 12 @48435 has 8 MA's), (15, 48453), (27, 48543), (28, 48549), (41, 48636), (47, 48714), (48, 48717), (49, 48729), (68, 48924), (70, 48933), (75, 49002), (80, 49062), (105, 49257),

Gene: Kita_54 Start: 37337, Stop: 38188, Start Num: 13
Candidate Starts for Kita_54:
(Start: 13 @37337 has 19 MA's), (37, 37511), (42, 37553), (69, 37832), (80, 37967), (82, 37979), (86, 38024), (90, 38048),

Gene: Lilas_52 Start: 39668, Stop: 40561, Start Num: 4
Candidate Starts for Lilas_52:
(Start: 4 @39668 has 21 MA's), (33, 39857), (69, 40205), (82, 40352), (86, 40397), (90, 40421),

Gene: LilyBell_52 Start: 33314, Stop: 34129, Start Num: 16
Candidate Starts for LilyBell_52:
(Start: 16 @33314 has 5 MA's), (52, 33590), (53, 33638), (86, 33968), (104, 34100),

Gene: LittleRon_48 Start: 32263, Stop: 33078, Start Num: 16
Candidate Starts for LittleRon_48:
(Start: 16 @32263 has 5 MA's), (72, 32749), (73, 32761), (86, 32917), (104, 33049),

Gene: LordFarquaad_50 Start: 34442, Stop: 35293, Start Num: 13
Candidate Starts for LordFarquaad_50:
(Start: 13 @34442 has 19 MA's), (37, 34616), (42, 34658), (69, 34937), (80, 35072), (82, 35084), (86, 35129), (90, 35153),

Gene: Madavieve_48 Start: 36672, Stop: 37580, Start Num: 4
Candidate Starts for Madavieve_48:
(Start: 4 @36672 has 21 MA's), (25, 36810), (30, 36840), (36, 36873), (42, 36924), (62, 37149), (69, 37224), (82, 37371), (86, 37416), (90, 37440), (106, 37554),

Gene: Madeline_51 Start: 38260, Stop: 39135, Start Num: 9
Candidate Starts for Madeline_51:
(Start: 9 @38260 has 15 MA's), (25, 38377), (42, 38491), (95, 39046),

Gene: Makar_75 Start: 48783, Stop: 49634, Start Num: 12
Candidate Starts for Makar_75:
(Start: 12 @48783 has 8 MA's), (15, 48801), (22, 48858), (28, 48900), (30, 48918), (41, 48987), (47, 49065), (48, 49068), (49, 49080), (62, 49203), (63, 49218), (67, 49254), (68, 49275), (70, 49284), (75, 49353), (80, 49413), (86, 49473), (90, 49497), (91, 49512), (103, 49593), (105, 49608), (107, 49614), (110, 49629),

Gene: Malibo_54 Start: 38001, Stop: 38852, Start Num: 13
Candidate Starts for Malibo_54:
(Start: 13 @38001 has 19 MA's), (17, 38028), (62, 38421), (66, 38469), (69, 38496), (86, 38688), (90, 38712), (91, 38727),

Gene: Manasvini_54 Start: 37352, Stop: 38203, Start Num: 13
Candidate Starts for Manasvini_54:
(Start: 13 @37352 has 19 MA's), (37, 37526), (42, 37568), (69, 37847), (80, 37982), (82, 37994), (86, 38039), (90, 38063),

Gene: Mao1_68 Start: 50146, Stop: 50979, Start Num: 18
Candidate Starts for Mao1_68:
(Start: 18 @50146 has 4 MA's), (26, 50221), (34, 50269), (39, 50308), (44, 50380), (46, 50389), (57, 50497), (58, 50521), (69, 50623), (71, 50632), (83, 50779), (85, 50812), (86, 50818), (91, 50857), (96, 50896), (98, 50911), (105, 50953), (108, 50968),

Gene: Maridalia_54 Start: 37501, Stop: 38370, Start Num: 9
Candidate Starts for Maridalia_54:
(Start: 9 @37501 has 15 MA's), (37, 37693), (53, 37876), (69, 38014), (86, 38206), (90, 38230),

Gene: Marteena_50 Start: 37224, Stop: 38114, Start Num: 4
Candidate Starts for Marteena_50:
(Start: 4 @37224 has 21 MA's), (69, 37758), (90, 37974),

Gene: Mask_66 Start: 52429, Stop: 53262, Start Num: 18
Candidate Starts for Mask_66:
(Start: 18 @52429 has 4 MA's), (26, 52504), (34, 52552), (39, 52591), (44, 52663), (46, 52672), (57, 52780), (58, 52804), (69, 52906), (71, 52915), (85, 53095), (86, 53101), (91, 53140), (96, 53179), (98, 53194), (105, 53236), (108, 53251),

Gene: Mulch_50 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for Mulch_50:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: Nadeem_50 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for Nadeem_50:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: NancyRae_49 Start: 35679, Stop: 36542, Start Num: 10
Candidate Starts for NancyRae_49:
(Start: 10 @35679 has 15 MA's), (19, 35733), (21, 35742), (39, 35883), (52, 36000), (57, 36069), (95, 36462), (96, 36465),

Gene: Neobush_53 Start: 37322, Stop: 38173, Start Num: 13
Candidate Starts for Neobush_53:
(Start: 13 @37322 has 19 MA's), (37, 37496), (42, 37538), (69, 37817), (80, 37952), (82, 37964), (86, 38009), (90, 38033),

Gene: NidoQ_48 Start: 32775, Stop: 33623, Start Num: 8
Candidate Starts for NidoQ_48:
(Start: 8 @32775 has 9 MA's), (62, 33195), (72, 33294), (73, 33306), (99, 33561),

Gene: NikkiHotWheels_51 Start: 32651, Stop: 33499, Start Num: 8
Candidate Starts for NikkiHotWheels_51:
(Start: 8 @32651 has 9 MA's), (62, 33071), (72, 33170), (73, 33182),

Gene: NoSwimming_46 Start: 32215, Stop: 33060, Start Num: 11
Candidate Starts for NoSwimming_46:
(Start: 11 @32215 has 1 MA's), (29, 32353), (62, 32632), (75, 32782), (78, 32827), (86, 32899),

Gene: Nymphadora_54 Start: 39300, Stop: 40169, Start Num: 9
Candidate Starts for Nymphadora_54:
(Start: 9 @39300 has 15 MA's), (37, 39492), (69, 39813), (86, 40005), (90, 40029),

Gene: PantheRoc_54 Start: 38106, Stop: 38990, Start Num: 4
Candidate Starts for PantheRoc_54:
(Start: 4 @38106 has 21 MA's), (42, 38355), (62, 38559), (69, 38634), (90, 38850),

Gene: Parada_50 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for Parada_50:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: Peas_50 Start: 34597, Stop: 35445, Start Num: 8
Candidate Starts for Peas_50:
(Start: 8 @34597 has 9 MA's), (62, 35017), (72, 35116), (73, 35128),

Gene: PeggyLeg03_51 Start: 33338, Stop: 34186, Start Num: 8
Candidate Starts for PeggyLeg03_51:
(Start: 8 @33338 has 9 MA's), (53, 33695), (62, 33758), (72, 33857), (73, 33869),

Gene: Phayonce_50 Start: 36309, Stop: 37142, Start Num: 18
Candidate Starts for Phayonce_50:
(Start: 18 @36309 has 4 MA's), (26, 36384), (34, 36432), (39, 36471), (44, 36543), (46, 36552), (57, 36660), (58, 36684), (69, 36786), (71, 36795), (83, 36942), (85, 36975), (86, 36981), (91, 37020), (96, 37059), (98, 37074), (105, 37116), (108, 37131),

Gene: Pickett_46 Start: 31625, Stop: 32476, Start Num: 13
Candidate Starts for Pickett_46:
(Start: 13 @31625 has 19 MA's), (37, 31799), (42, 31841), (69, 32120), (80, 32255), (82, 32267), (86, 32312), (90, 32336),

Gene: Pimento_51 Start: 35257, Stop: 36120, Start Num: 10
Candidate Starts for Pimento_51:
(Start: 10 @35257 has 15 MA's), (19, 35311), (21, 35320), (39, 35461), (52, 35578), (57, 35647), (80, 35908), (82, 35920), (95, 36040), (96, 36043),

Gene: Pollux_53 Start: 38684, Stop: 39553, Start Num: 9
Candidate Starts for Pollux_53:
(Start: 9 @38684 has 15 MA's), (37, 38876), (42, 38918), (69, 39197), (86, 39389), (90, 39413),

Gene: Polly_50 Start: 36771, Stop: 37622, Start Num: 13
Candidate Starts for Polly_50:
(Start: 13 @36771 has 19 MA's), (37, 36945), (42, 36987), (69, 37266), (80, 37401), (82, 37413), (86, 37458), (90, 37482),

Gene: Posh_57 Start: 40046, Stop: 40936, Start Num: 4
Candidate Starts for Posh_57:

(Start: 4 @40046 has 21 MA's), (42, 40301), (62, 40505), (66, 40553), (69, 40580), (84, 40739), (86, 40772), (90, 40796),

Gene: Pucara_48 Start: 32943, Stop: 33791, Start Num: 8
Candidate Starts for Pucara_48:
(Start: 8 @32943 has 9 MA's), (53, 33300), (62, 33363), (72, 33462), (73, 33474),

Gene: Purplicious_73 Start: 48203, Stop: 49054, Start Num: 12
Candidate Starts for Purplicious_73:
(Start: 12 @48203 has 8 MA's), (15, 48221), (27, 48311), (28, 48317), (41, 48404), (47, 48482), (48, 48485), (49, 48497), (68, 48692), (70, 48701), (75, 48770), (80, 48830), (83, 48848), (105, 49025), (109, 49043),

Gene: Pytheas_54 Start: 40312, Stop: 41196, Start Num: 4
Candidate Starts for Pytheas_54:
(Start: 4 @40312 has 21 MA's), (22, 40414), (42, 40561), (62, 40765), (66, 40813), (69, 40840), (86, 41032), (90, 41056),

Gene: RavenCo17_51 Start: 37505, Stop: 38374, Start Num: 9
Candidate Starts for RavenCo17_51:
(Start: 9 @37505 has 15 MA's), (37, 37697), (69, 38018), (90, 38234),

Gene: Reyja_46 Start: 30927, Stop: 31790, Start Num: 6
Candidate Starts for Reyja_46:
(Start: 6 @30927 has 6 MA's), (38, 31125), (43, 31155), (53, 31293), (68, 31428), (77, 31530), (79, 31560), (81, 31575), (84, 31590), (88, 31638), (97, 31710), (105, 31764),

Gene: RootBeer_41 Start: 29068, Stop: 29916, Start Num: 8
Candidate Starts for RootBeer_41:
(Start: 8 @29068 has 9 MA's), (62, 29488), (72, 29587), (73, 29599), (91, 29794), (99, 29854),

Gene: Ruthy_50 Start: 37941, Stop: 38801, Start Num: 9
Candidate Starts for Ruthy_50:
(Start: 9 @37941 has 15 MA's), (Start: 16 @37968 has 5 MA's), (95, 38712),

Gene: Santhid_45 Start: 29208, Stop: 30077, Start Num: 6
Candidate Starts for Santhid_45:
(Start: 6 @29208 has 6 MA's), (15, 29250), (38, 29412), (43, 29442), (53, 29583), (79, 29850), (81, 29865), (88, 29928), (97, 29997), (105, 30051),

Gene: Scotia_44 Start: 31242, Stop: 32060, Start Num: 16
Candidate Starts for Scotia_44:
(15, 31239), (Start: 16 @31242 has 5 MA's), (26, 31329), (29, 31353), (62, 31632), (75, 31782), (86, 31899),

Gene: SoilAssassin_48 Start: 34460, Stop: 35311, Start Num: 13
Candidate Starts for SoilAssassin_48:
(Start: 13 @34460 has 19 MA's), (37, 34634), (42, 34676), (69, 34955), (80, 35090), (82, 35102), (86, 35147), (90, 35171),

Gene: Soos_70 Start: 48164, Stop: 49015, Start Num: 12
Candidate Starts for Soos_70:

(Start: 12 @48164 has 8 MA's), (15, 48182), (27, 48272), (28, 48278), (41, 48365), (47, 48443), (48, 48446), (49, 48458), (68, 48653), (70, 48662), (75, 48731), (80, 48791), (83, 48809), (105, 48986), (109, 49004),

Gene: Sparky_70 Start: 49626, Stop: 50477, Start Num: 7
Candidate Starts for Sparky_70:
(Start: 7 @49626 has 3 MA's), (Start: 18 @49674 has 4 MA's), (23, 49725), (31, 49773), (32, 49779), (64, 50079), (67, 50103), (69, 50127), (80, 50265), (83, 50283), (86, 50325), (91, 50364), (94, 50382), (96, 50403), (105, 50460),

Gene: Stillion_73 Start: 48761, Stop: 49612, Start Num: 12
Candidate Starts for Stillion_73:
(Start: 12 @48761 has 8 MA's), (15, 48779), (27, 48869), (28, 48875), (41, 48962), (47, 49040), (48, 49043), (49, 49055), (68, 49250), (70, 49259), (75, 49328), (80, 49388), (83, 49406), (105, 49583), (109, 49601),

Gene: Sting_73 Start: 48603, Stop: 49454, Start Num: 12
Candidate Starts for Sting_73:
(Start: 12 @48603 has 8 MA's), (15, 48621), (27, 48711), (28, 48717), (41, 48804), (47, 48882), (48, 48885), (49, 48897), (68, 49092), (70, 49101), (75, 49170), (80, 49230), (83, 49248), (105, 49425), (109, 49443),

Gene: Suscepit_53 Start: 37329, Stop: 38180, Start Num: 13
Candidate Starts for Suscepit_53:
(Start: 13 @37329 has 19 MA's), (37, 37503), (42, 37545), (69, 37824), (80, 37959), (82, 37971), (86, 38016), (90, 38040),

Gene: SushiChef_50 Start: 38269, Stop: 39138, Start Num: 9
Candidate Starts for SushiChef_50:
(Start: 9 @38269 has 15 MA's), (37, 38461), (53, 38644), (69, 38782), (86, 38974), (90, 38998),

Gene: SussRoloMann_50 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for SussRoloMann_50:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: TPA4_49 Start: 37276, Stop: 38109, Start Num: 14
Candidate Starts for TPA4_49:
(1, 37045), (14, 37276), (24, 37354), (34, 37408), (44, 37519), (46, 37528), (51, 37561), (59, 37663), (69, 37762), (77, 37861), (80, 37897), (87, 37957), (93, 38005), (102, 38071),

Gene: Tarzan_46 Start: 30318, Stop: 31178, Start Num: 6
Candidate Starts for Tarzan_46:
(Start: 6 @30318 has 6 MA's), (38, 30516), (43, 30546), (53, 30684), (79, 30951), (81, 30966), (88, 31029), (97, 31098), (100, 31119), (105, 31152),

Gene: Tayonia_53 Start: 37328, Stop: 38179, Start Num: 13
Candidate Starts for Tayonia_53:
(Start: 13 @37328 has 19 MA's), (37, 37502), (42, 37544), (69, 37823), (80, 37958), (82, 37970), (86, 38015), (90, 38039),

Gene: ThankyouJordi_52 Start: 39176, Stop: 40069, Start Num: 4
Candidate Starts for ThankyouJordi_52:

(Start: 4 @39176 has 21 MA's), (32, 39362), (69, 39713), (86, 39905), (90, 39929),

Gene: Thimann_51 Start: 35487, Stop: 36365, Start Num: 4
Candidate Starts for Thimann_51:
(3, 35376), (Start: 4 @35487 has 21 MA's), (37, 35688), (42, 35730), (62, 35934), (69, 36009), (86, 36201), (90, 36225),

Gene: TimTam_54 Start: 39300, Stop: 40169, Start Num: 9
Candidate Starts for TimTam_54:
(Start: 9 @39300 has 15 MA's), (37, 39492), (69, 39813), (86, 40005), (90, 40029),

Gene: Tonitrus_61 Start: 44978, Stop: 45802, Start Num: 12
Candidate Starts for Tonitrus_61:
(Start: 12 @44978 has 8 MA's), (20, 45023), (23, 45050), (50, 45260), (51, 45266), (56, 45326), (64, 45407), (66, 45428), (69, 45455), (72, 45479), (80, 45590), (105, 45785),

Gene: Trumpet_53 Start: 37329, Stop: 38180, Start Num: 13
Candidate Starts for Trumpet_53:
(Start: 13 @37329 has 19 MA's), (37, 37503), (42, 37545), (69, 37824), (80, 37959), (82, 37971), (86, 38016), (90, 38040),

Gene: Vasanti_50 Start: 33874, Stop: 34743, Start Num: 9
Candidate Starts for Vasanti_50:
(Start: 9 @33874 has 15 MA's), (37, 34066), (55, 34255), (62, 34312), (69, 34387), (86, 34579),

Gene: WST1_47 Start: 30041, Stop: 30886, Start Num: 7
Candidate Starts for WST1_47:
(2, 29885), (Start: 7 @30041 has 3 MA's), (Start: 18 @30083 has 4 MA's), (23, 30134), (31, 30182), (64, 30488), (67, 30512), (69, 30536), (80, 30674), (83, 30692), (86, 30734), (94, 30791), (96, 30812), (105, 30869),

Gene: WelcomeAyanna_52 Start: 39323, Stop: 40216, Start Num: 4
Candidate Starts for WelcomeAyanna_52:
(Start: 4 @39323 has 21 MA's), (32, 39509), (69, 39860), (86, 40052), (90, 40076),

Gene: WheatThin_49 Start: 35660, Stop: 36523, Start Num: 10
Candidate Starts for WheatThin_49:
(Start: 10 @35660 has 15 MA's), (19, 35714), (21, 35723), (39, 35864), (52, 35981), (57, 36050), (95, 36443), (96, 36446),

Gene: Wrigley_59 Start: 39635, Stop: 40519, Start Num: 4
Candidate Starts for Wrigley_59:
(Start: 4 @39635 has 21 MA's), (42, 39884), (62, 40088), (66, 40136), (69, 40163), (84, 40322), (86, 40355), (90, 40379),

Gene: Yeet412_48 Start: 34461, Stop: 35312, Start Num: 13
Candidate Starts for Yeet412_48:
(Start: 13 @34461 has 19 MA's), (37, 34635), (42, 34677), (69, 34956), (80, 35091), (82, 35103), (86, 35148), (90, 35172),

Gene: Yeezy_51 Start: 36236, Stop: 37114, Start Num: 9
Candidate Starts for Yeezy_51:
(Start: 9 @36236 has 15 MA's), (37, 36428), (64, 36701), (74, 36788), (95, 37025),

Gene: Zameen_53 Start: 37328, Stop: 38179, Start Num: 13
Candidate Starts for Zameen_53:
(Start: 13 @37328 has 19 MA's), (37, 37502), (42, 37544), (69, 37823), (80, 37958), (82, 37970), (86, 38015), (90, 38039),

Gene: Zirinka_50 Start: 37948, Stop: 38799, Start Num: 13
Candidate Starts for Zirinka_50:
(Start: 13 @37948 has 19 MA's), (37, 38122), (42, 38164), (69, 38443), (80, 38578), (82, 38590), (86, 38635), (90, 38659),

Gene: Zodiariah_52 Start: 39902, Stop: 40801, Start Num: 4
Candidate Starts for Zodiariah_52:
(3, 39791), (Start: 4 @39902 has 21 MA's), (26, 40055), (30, 40082), (37, 40124), (42, 40166), (46, 40223), (55, 40313), (69, 40445), (86, 40637), (90, 40661), (92, 40682), (94, 40694),