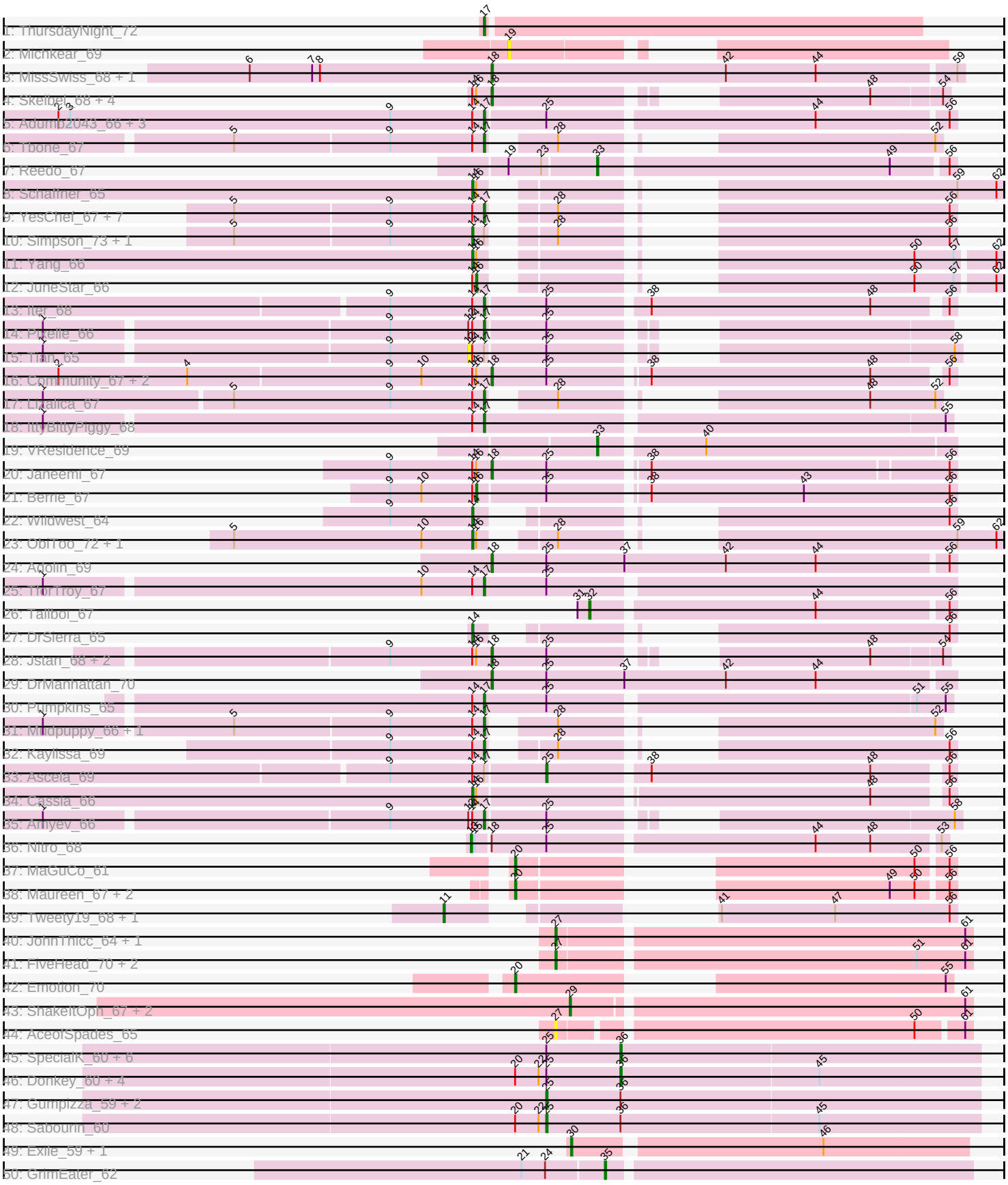
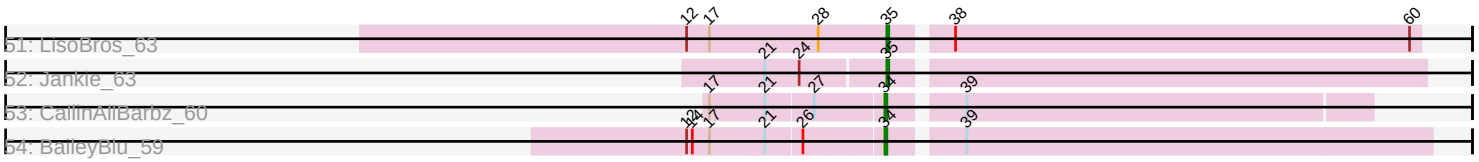
Pham 347467


1: ThursdayNight_72
2: Michkear_69
3: MissSwiss_68 + 1
4: Skelbel_68 + 4
5: Adumb2043_66 + 3
6: Tbone_67
7: Reedo_67
8: Schaffner_65
9: YesChef_67 + 7
10: Simpson_73 + 1
11: Yang_66
12: JuneStar_66
13: Iter_68
14: Pixelle_66
15: Than_65
16: Community_67 + 2
17: Lupalica_67
18: ItsyBitsyPiggy_68
19: VResidence_69
20: Janeemi_67
21: Berrie_67
22: Wildwest_64
23: Obi100_72 + 1
24: Adolin_69
25: ThorTroy_67
26: Tallboi_67
27: DrSierra_65
28: Jstan_68 + 2
29: DrManhattan_70
30: Pumpkins_65
31: Muddpuppy_66 + 1
32: Kaylissa_69
33: Ascela_69
34: Cassia_66
35: Amyev_66
36: Nitro_68
37: MaGuCo_61
38: Maureen_67 + 2
39: Tweety19_68 + 1
40: JohnThicc_64 + 1
41: FiveHead_70 + 2
42: Emotion_70
43: SnakeItOph_67 + 2
44: AceofSpades_65
45: SpecialK_60 + 6
46: Donkey_60 + 4
47: Gumpizza_59 + 2
48: Sabourin_60
49: Exile_59 + 1
50: GrimEater_62

Pham 347467


51: LisoBros_63
52: Jankie_63
53: CallinAllBarbz_60
54: BaileyBlu_59
12
17
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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 347467 Report

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

Pham number 347467 has 97 members, 13 are drafts.

Phages represented in each track:
- Track 1 : ThursdayNight_72
- Track 2 : Michkear_69
- Track 3 : MissSwiss_68, PandaPo_68
- Track 4 : Skelbel_68, Eraser_67, Asa16_67, London_67, Niobe_67
- Track 5 : Adumb2043_66, AEgle_65, Turab_65, Amploria_68
- Track 6 : Tbone_67
- Track 7 : Reedo_67
- Track 8 : Schaffner_65
- Track 9 : YesChef_67, Flutur_67, Lego_67, Joemato_69, AGrandiflora_69, Cyan_68, Tutumahutu_69, Powerpuff_69
- Track 10 : Simpson_73, JohnDoe_68
- Track 11 : Yang_66
- Track 12 : JuneStar_66
- Track 13 : Iter_68
- Track 14 : Pixelle_66
- Track 15 : Tian_65
- Track 16 : Community_67, Tuck_67, Phives_68
- Track 17 : Lizalica_67
- Track 18 : IttyBittyPiggy_68
- Track 19 : VResidence_69
- Track 20 : Janeemi_67
- Track 21 : Berrie_67
- Track 22 : Wildwest_64
- Track 23 : ObiToo_72, Crewmate_72
- Track 24 : Adolin_69
- Track 25 : TforTroy_67
- Track 26 : Tallboi_67
- Track 27 : DrSierra_65
- Track 28 : Jstan_68, Elezi_66, Subaru_66
- Track 29 : DrManhattan_70
- Track 30 : Pumpkins_65
- Track 31 : Mudpuppy_66, Warda_68
- Track 32 : Kaylissa_69
- Track 33 : Ascela_69
- Track 34 : Cassia_66
- Track 35 : Amyev_66
- Track 36 : Nitro_68

• Track 37 : MaGuCo_61
• Track 38 : Maureen_67, IUFootball_68, Liebe_67
• Track 39 : Tweety19_68, Snek_67
• Track 40 : JohnThicc_64, VroomVroom_64
• Track 41 : FiveHead_70, Origami_64, LadyAstra_65
• Track 42 : Emotion_70
• Track 43 : ShakeItOph_67, JasmineDragon_67, MiniMommy_67
• Track 44 : AceofSpades_65
• Track 45 : SpecialK_60, Halsey_60, Ashes_60, RockScotty_59, Mysterium_59, Moss_60, Beaupre_59
• Track 46 : Donkey_60, Kalimba_60, Cappuccino_60, Gambol_61, Sooty_60
• Track 47 : Gumpizza_59, Giorgio_59, Stuu_60
• Track 48 : Sabourin_60
• Track 49 : Exile_59, Soondubu_61
• Track 50 : GrimEater_62
• Track 51 : LisoBros_63
• Track 52 : Jankie_63
• Track 53 : CallinAllBarbz_60
• Track 54 : BaileyBlu_59

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

The start number called the most often in the published annotations is 17, it was called in 21 of the 84 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_65, AGrandiflora_69, Adumb2043_66, Amploria_68, Amyev_66, Cyan_68, Flutur_67, Iter_68, IttyBittyPiggy_68, Joemato_69, Kaylissa_69, Lego_67, Lizalica_67, Mudpuppy_66, Pixelle_66, Powerpuff_69, Pumpkins_65, Tbone_67, TforTroy_67, ThursdayNight_72, Turab_65, Tutumahutu_69, Warda_68, YesChef_67,

Genes that have the "Most Annotated" start but do not call it:
• Ascela_69, BaileyBlu_59, CallinAllBarbz_60, JohnDoe_68, LisoBros_63, Simpson_73, Tian_65,

Genes that do not have the "Most Annotated" start:
• AceofSpades_65, Adolin_69, Asa16_67, Ashes_60, Beaupre_59, Berrie_67, Cappuccino_60, Cassia_66, Community_67, Crewmate_72, Donkey_60, DrManhattan_70, DrSierra_65, Elezi_66, Emotion_70, Eraser_67, Exile_59, FiveHead_70, Gambol_61, Giorgio_59, GrimEater_62, Gumpizza_59, Halsey_60, IUFootball_68, Janeemi_67, Jankie_63, JasmineDragon_67, JohnThicc_64, Jstan_68, JuneStar_66, Kalimba_60, LadyAstra_65, Liebe_67, London_67, MaGuCo_61, Maureen_67, Michkear_69, MiniMommy_67, MissSwiss_68, Moss_60, Mysterium_59, Niobe_67, Nitro_68, ObiToo_72, Origami_64, PandaPo_68, Phives_68, Reedo_67, RockScotty_59, Sabourin_60, Schaffner_65, ShakeItOph_67, Skelbel_68, Snek_67, Soondubu_61, Sooty_60, SpecialK_60, Stuu_60, Subaru_66, Tallboi_67, Tuck_67, Tweety19_68, VResidence_69, VroomVroom_64, Wildwest_64, Yang_66,

Summary by start number:

Start 11:
• Found in 2 of 97 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Snek_67 (AZ3), Tweety19_68 (AZ3),

Start 12:
• Found in 5 of 97 (5.2%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Tian_65 (AZ1),

Start 13:
• Found in 1 of 97 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nitro_68 (AZ1),

Start 14:
• Found in 49 of 97 (50.5%) of genes in pham
• Manual Annotations of this start: 8 of 84
• Called 18.4% of time when present
• Phage (with cluster) where this start called: Cassia_66 (AZ1), Crewmate_72 (AZ1), DrSierra_65 (AZ1), JohnDoe_68 (AZ1), ObiToo_72 (AZ1), Schaffner_65 (AZ1), Simpson_73 (AZ1), Wildwest_64 (AZ1), Yang_66 (AZ1),

Start 16:
• Found in 19 of 97 (19.6%) of genes in pham
• Manual Annotations of this start: 2 of 84
• Called 10.5% of time when present
• Phage (with cluster) where this start called: Berrie_67 (AZ1), JuneStar_66 (AZ1),

Start 17:
• Found in 31 of 97 (32.0%) of genes in pham
• Manual Annotations of this start: 21 of 84
• Called 77.4% of time when present
• Phage (with cluster) where this start called: AEgle_65 (AZ1), AGrandiflora_69 (AZ1), Adumb2043_66 (AZ1), Amploria_68 (AZ1), Amyev_66 (AZ1), Cyan_68 (AZ1), Flutur_67 (AZ), Iter_68 (AZ1), IttyBittyPiggy_68 (AZ1), Joemato_69 (AZ1), Kaylissa_69 (AZ1), Lego_67 (AZ1), Lizalica_67 (AZ1), Mudpuppy_66 (AZ1), Pixelle_66 (AZ1), Powerpuff_69 (AZ1), Pumpkins_65 (AZ1), Tbone_67 (AZ1), TforTroy_67 (AZ1), ThursdayNight_72 (AZ), Turab_65 (AZ1), Tutumahutu_69 (AZ1), Warda_68 (AZ1), YesChef_67 (AZ1),

Start 18:
• Found in 17 of 97 (17.5%) of genes in pham
• Manual Annotations of this start: 12 of 84
• Called 94.1% of time when present
• Phage (with cluster) where this start called: Adolin_69 (AZ1), Asa16_67 (AZ1), Community_67 (AZ1), DrManhattan_70 (AZ1), Elezi_66 (AZ1), Eraser_67 (AZ1), Janeemi_67 (AZ1), Jstan_68 (AZ1), London_67 (AZ1), MissSwiss_68 (AZ1),

Niobe_67 (AZ1), PandaPo_68 (AZ1), Phives_68 (AZ1), Skelbel_68 (AZ1), Subaru_66 (AZ1), Tuck_67 (AZ1),

Start 19:
• Found in 2 of 97 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Michkear_69 (AZ),

Start 20:
• Found in 11 of 97 (11.3%) of genes in pham
• Manual Annotations of this start: 5 of 84
• Called 45.5% of time when present
• Phage (with cluster) where this start called: Emotion_70 (AZ4), IUFootball_68 (AZ2), Liebe_67 (AZ2), MaGuCo_61 (AZ2), Maureen_67 (AZ2),

Start 25:
• Found in 38 of 97 (39.2%) of genes in pham
• Manual Annotations of this start: 5 of 84
• Called 13.2% of time when present
• Phage (with cluster) where this start called: Ascela_69 (AZ1), Giorgio_59 (AZ5), Gumpizza_59 (AZ5), Sabourin_60 (AZ5), Stuu_60 (AZ5),

Start 27:
• Found in 7 of 97 (7.2%) of genes in pham
• Manual Annotations of this start: 4 of 84
• Called 85.7% of time when present
• Phage (with cluster) where this start called: AceofSpades_65 (AZ4), FiveHead_70 (AZ4), JohnThicc_64 (AZ4), LadyAstra_65 (AZ4), Origami_64 (AZ4), VroomVroom_64 (AZ4),

Start 29:
• Found in 3 of 97 (3.1%) of genes in pham
• Manual Annotations of this start: 3 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: JasmineDragon_67 (AZ4), MiniMommy_67 (AZ4), ShakeItOph_67 (AZ4),

Start 30:
• Found in 2 of 97 (2.1%) of genes in pham
• Manual Annotations of this start: 1 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Exile_59 (AZ6), Soondubu_61 (AZ6),

Start 32:
• Found in 1 of 97 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tallboi_67 (AZ1),

Start 33:
• Found in 2 of 97 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 84

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reedo_67 (AZ1), VResidence_69 (AZ1),

Start 34:
• Found in 2 of 97 (2.1%) of genes in pham
• Manual Annotations of this start: 2 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_59 (FP), CallinAllBarbz_60 (FP),

Start 35:
• Found in 3 of 97 (3.1%) of genes in pham
• Manual Annotations of this start: 3 of 84
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GrimEater_62 (FP), Jankie_63 (FP), LisoBros_63 (FP),

Start 36:
• Found in 16 of 97 (16.5%) of genes in pham
• Manual Annotations of this start: 12 of 84
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Ashes_60 (AZ5), Beaupre_59 (AZ5), Cappuccino_60 (AZ5), Donkey_60 (AZ5), Gambol_61 (AZ5), Halsey_60 (AZ5), Kalimba_60 (AZ5), Moss_60 (AZ5), Mysterium_59 (AZ5), RockScotty_59 (AZ5), Sooty_60 (AZ5), SpecialK_60 (AZ5),

Summary by clusters:

There are 8 clusters represented in this pham: FP, AZ, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6,

Info for manual annotations of cluster AZ:
•Start number 17 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 13 was manually annotated 1 time for cluster AZ1.
•Start number 14 was manually annotated 8 times for cluster AZ1.
•Start number 16 was manually annotated 2 times for cluster AZ1.
•Start number 17 was manually annotated 20 times for cluster AZ1.
•Start number 18 was manually annotated 12 times for cluster AZ1.
•Start number 25 was manually annotated 1 time for cluster AZ1.
•Start number 32 was manually annotated 1 time for cluster AZ1.
•Start number 33 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 20 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 11 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 20 was manually annotated 1 time for cluster AZ4.
•Start number 27 was manually annotated 4 times for cluster AZ4.

•Start number 29 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 25 was manually annotated 4 times for cluster AZ5.
•Start number 36 was manually annotated 12 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 30 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster FP:
•Start number 34 was manually annotated 2 times for cluster FP.
•Start number 35 was manually annotated 3 times for cluster FP.

Gene Information:

Gene: AEgle_65 Start: 41928, Stop: 42272, Start Num: 17
Candidate Starts for AEgle_65:
(2, 41601), (3, 41610), (9, 41856), (Start: 14 @41919 has 8 MA's), (Start: 17 @41928 has 21 MA's), (Start: 25 @41973 has 5 MA's), (44, 42171), (56, 42267),

Gene: AGrandiflora_69 Start: 42827, Stop: 43090, Start Num: 17
Candidate Starts for AGrandiflora_69:
(5, 42638), (9, 42755), (Start: 14 @42818 has 8 MA's), (Start: 17 @42827 has 21 MA's), (28, 42857), (56, 43085),

Gene: AceofSpades_65 Start: 42194, Stop: 42490, Start Num: 27
Candidate Starts for AceofSpades_65:
(Start: 27 @42194 has 4 MA's), (50, 42452), (61, 42485),

Gene: Adolin_69 Start: 41878, Stop: 42228, Start Num: 18
Candidate Starts for Adolin_69:
(Start: 18 @41878 has 12 MA's), (Start: 25 @41920 has 5 MA's), (37, 41980), (42, 42058), (44, 42127), (56, 42223),

Gene: Adumb2043_66 Start: 41952, Stop: 42296, Start Num: 17
Candidate Starts for Adumb2043_66:
(2, 41625), (3, 41634), (9, 41880), (Start: 14 @41943 has 8 MA's), (Start: 17 @41952 has 21 MA's), (Start: 25 @41997 has 5 MA's), (44, 42195), (56, 42291),

Gene: Amploria_68 Start: 42132, Stop: 42476, Start Num: 17
Candidate Starts for Amploria_68:
(2, 41805), (3, 41814), (9, 42060), (Start: 14 @42123 has 8 MA's), (Start: 17 @42132 has 21 MA's), (Start: 25 @42177 has 5 MA's), (44, 42375), (56, 42471),

Gene: Amyev_66 Start: 43156, Stop: 43452, Start Num: 17
Candidate Starts for Amyev_66:
(1, 42829), (9, 43084), (12, 43144), (Start: 14 @43147 has 8 MA's), (Start: 17 @43156 has 21 MA's), (Start: 25 @43201 has 5 MA's), (58, 43447),

Gene: Asa16_67 Start: 42516, Stop: 42797, Start Num: 18
Candidate Starts for Asa16_67:

(Start: 14 @42504 has 8 MA's), (Start: 16 @42507 has 2 MA's), (Start: 18 @42516 has 12 MA's), (48, 42744), (54, 42792),

Gene: Ascela_69 Start: 43040, Stop: 43333, Start Num: 25
Candidate Starts for Ascela_69:
(9, 42923), (Start: 14 @42986 has 8 MA's), (Start: 17 @42995 has 21 MA's), (Start: 25 @43040 has 5 MA's), (38, 43112), (48, 43280), (56, 43328),

Gene: Ashes_60 Start: 38817, Stop: 39089, Start Num: 36
Candidate Starts for Ashes_60:
(Start: 25 @38760 has 5 MA's), (Start: 36 @38817 has 12 MA's),

Gene: BaileyBlu_59 Start: 39085, Stop: 39360, Start Num: 34
Candidate Starts for BaileyBlu_59:
(12, 38989), (Start: 14 @38992 has 8 MA's), (Start: 17 @39001 has 21 MA's), (21, 39028), (26, 39046), (Start: 34 @39085 has 2 MA's), (39, 39118),

Gene: Beaupre_59 Start: 38627, Stop: 38899, Start Num: 36
Candidate Starts for Beaupre_59:
(Start: 25 @38570 has 5 MA's), (Start: 36 @38627 has 12 MA's),

Gene: Berrie_67 Start: 42601, Stop: 42954, Start Num: 16
Candidate Starts for Berrie_67:
(9, 42535), (10, 42559), (Start: 14 @42598 has 8 MA's), (Start: 16 @42601 has 2 MA's), (Start: 25 @42652 has 5 MA's), (38, 42721), (43, 42838), (56, 42949),

Gene: CallinAllBarbz_60 Start: 39859, Stop: 40101, Start Num: 34
Candidate Starts for CallinAllBarbz_60:
(Start: 17 @39775 has 21 MA's), (21, 39802), (Start: 27 @39826 has 4 MA's), (Start: 34 @39859 has 2 MA's), (39, 39892),

Gene: Cappuccino_60 Start: 38667, Stop: 38939, Start Num: 36
Candidate Starts for Cappuccino_60:
(Start: 20 @38586 has 5 MA's), (22, 38604), (Start: 25 @38610 has 5 MA's), (Start: 36 @38667 has 12 MA's), (45, 38817),

Gene: Cassia_66 Start: 42270, Stop: 42614, Start Num: 14
Candidate Starts for Cassia_66:
(Start: 14 @42270 has 8 MA's), (Start: 16 @42273 has 2 MA's), (48, 42561), (56, 42609),

Gene: Community_67 Start: 42884, Stop: 43216, Start Num: 18
Candidate Starts for Community_67:
(2, 42557), (4, 42656), (9, 42809), (10, 42833), (Start: 14 @42872 has 8 MA's), (Start: 16 @42875 has 2 MA's), (Start: 18 @42884 has 12 MA's), (Start: 25 @42926 has 5 MA's), (38, 42995), (48, 43163), (56, 43211),

Gene: Crewmate_72 Start: 43229, Stop: 43537, Start Num: 14
Candidate Starts for Crewmate_72:
(5, 43046), (10, 43190), (Start: 14 @43229 has 8 MA's), (Start: 16 @43232 has 2 MA's), (28, 43268), (59, 43502), (62, 43532),

Gene: Cyan_68 Start: 42571, Stop: 42834, Start Num: 17
Candidate Starts for Cyan_68:

(5, 42382), (9, 42499), (Start: 14 @42562 has 8 MA's), (Start: 17 @42571 has 21 MA's), (28, 42601), (56, 42829),

Gene: Donkey_60 Start: 38657, Stop: 38929, Start Num: 36
Candidate Starts for Donkey_60:
(Start: 20 @38576 has 5 MA's), (22, 38594), (Start: 25 @38600 has 5 MA's), (Start: 36 @38657 has 12 MA's), (45, 38807),

Gene: DrManhattan_70 Start: 41432, Stop: 41782, Start Num: 18
Candidate Starts for DrManhattan_70:
(Start: 18 @41432 has 12 MA's), (Start: 25 @41474 has 5 MA's), (37, 41534), (42, 41612), (44, 41681),

Gene: DrSierra_65 Start: 41681, Stop: 41947, Start Num: 14
Candidate Starts for DrSierra_65:
(Start: 14 @41681 has 8 MA's), (56, 41942),

Gene: Elezi_66 Start: 42273, Stop: 42554, Start Num: 18
Candidate Starts for Elezi_66:
(9, 42198), (Start: 14 @42261 has 8 MA's), (Start: 16 @42264 has 2 MA's), (Start: 18 @42273 has 12 MA's), (Start: 25 @42315 has 5 MA's), (48, 42501), (54, 42549),

Gene: Emotion_70 Start: 43720, Stop: 43983, Start Num: 20
Candidate Starts for Emotion_70:
(Start: 20 @43720 has 5 MA's), (55, 43978),

Gene: Eraser_67 Start: 42523, Stop: 42804, Start Num: 18
Candidate Starts for Eraser_67:
(Start: 14 @42511 has 8 MA's), (Start: 16 @42514 has 2 MA's), (Start: 18 @42523 has 12 MA's), (48, 42751), (54, 42799),

Gene: Exile_59 Start: 43115, Stop: 43405, Start Num: 30
Candidate Starts for Exile_59:
(Start: 30 @43115 has 1 MA's), (46, 43295),

Gene: FiveHead_70 Start: 41853, Stop: 42158, Start Num: 27
Candidate Starts for FiveHead_70:
(Start: 27 @41853 has 4 MA's), (51, 42117), (61, 42153),

Gene: Flutur_67 Start: 42852, Stop: 43115, Start Num: 17
Candidate Starts for Flutur_67:
(5, 42663), (9, 42780), (Start: 14 @42843 has 8 MA's), (Start: 17 @42852 has 21 MA's), (28, 42882), (56, 43110),

Gene: Gambol_61 Start: 38676, Stop: 38948, Start Num: 36
Candidate Starts for Gambol_61:
(Start: 20 @38595 has 5 MA's), (22, 38613), (Start: 25 @38619 has 5 MA's), (Start: 36 @38676 has 12 MA's), (45, 38826),

Gene: Giorgio_59 Start: 38553, Stop: 38882, Start Num: 25
Candidate Starts for Giorgio_59:
(Start: 25 @38553 has 5 MA's), (Start: 36 @38610 has 12 MA's),

Gene: GrimEater_62 Start: 40339, Stop: 40611, Start Num: 35

Candidate Starts for GrimEater_62:
(21, 40279), (24, 40297), (Start: 35 @40339 has 3 MA's),

Gene: Gumpizza_59 Start: 38509, Stop: 38838, Start Num: 25
Candidate Starts for Gumpizza_59:
(Start: 25 @38509 has 5 MA's), (Start: 36 @38566 has 12 MA's),

Gene: Halsey_60 Start: 38807, Stop: 39079, Start Num: 36
Candidate Starts for Halsey_60:
(Start: 25 @38750 has 5 MA's), (Start: 36 @38807 has 12 MA's),

Gene: IUFootball_68 Start: 44555, Stop: 44812, Start Num: 20
Candidate Starts for IUFootball_68:
(Start: 20 @44555 has 5 MA's), (49, 44768), (50, 44786), (56, 44807),

Gene: Iter_68 Start: 42766, Stop: 43104, Start Num: 17
Candidate Starts for Iter_68:
(9, 42694), (Start: 14 @42757 has 8 MA's), (Start: 17 @42766 has 21 MA's), (Start: 25 @42811 has 5 MA's), (38, 42883), (48, 43051), (56, 43099),

Gene: IttyBittyPiggy_68 Start: 41000, Stop: 41344, Start Num: 17
Candidate Starts for IttyBittyPiggy_68:
(1, 40670), (Start: 14 @40991 has 8 MA's), (Start: 17 @41000 has 21 MA's), (55, 41339),

Gene: Janeemi_67 Start: 42677, Stop: 43015, Start Num: 18
Candidate Starts for Janeemi_67:
(9, 42602), (Start: 14 @42665 has 8 MA's), (Start: 16 @42668 has 2 MA's), (Start: 18 @42677 has 12 MA's), (Start: 25 @42719 has 5 MA's), (38, 42788), (56, 43010),

Gene: Jankie_63 Start: 40521, Stop: 40793, Start Num: 35
Candidate Starts for Jankie_63:
(21, 40461), (24, 40479), (Start: 35 @40521 has 3 MA's),

Gene: JasmineDragon_67 Start: 42320, Stop: 42616, Start Num: 29
Candidate Starts for JasmineDragon_67:
(Start: 29 @42320 has 3 MA's), (61, 42611),

Gene: Joemato_69 Start: 42748, Stop: 43011, Start Num: 17
Candidate Starts for Joemato_69:
(5, 42559), (9, 42676), (Start: 14 @42739 has 8 MA's), (Start: 17 @42748 has 21 MA's), (28, 42778), (56, 43006),

Gene: JohnDoe_68 Start: 42656, Stop: 42928, Start Num: 14
Candidate Starts for JohnDoe_68:
(5, 42476), (9, 42593), (Start: 14 @42656 has 8 MA's), (Start: 17 @42665 has 21 MA's), (28, 42695), (56, 42923),

Gene: JohnThicc_64 Start: 41852, Stop: 42160, Start Num: 27
Candidate Starts for JohnThicc_64:
(Start: 27 @41852 has 4 MA's), (61, 42155),

Gene: Jstan_68 Start: 42277, Stop: 42558, Start Num: 18
Candidate Starts for Jstan_68:

(9, 42202), (Start: 14 @42265 has 8 MA's), (Start: 16 @42268 has 2 MA's), (Start: 18 @42277 has 12 MA's), (Start: 25 @42319 has 5 MA's), (48, 42505), (54, 42553),

Gene: JuneStar_66 Start: 43398, Stop: 43697, Start Num: 16
Candidate Starts for JuneStar_66:
(Start: 14 @43395 has 8 MA's), (Start: 16 @43398 has 2 MA's), (50, 43635), (57, 43665), (62, 43692),

Gene: Kalimba_60 Start: 38654, Stop: 38926, Start Num: 36
Candidate Starts for Kalimba_60:
(Start: 20 @38573 has 5 MA's), (22, 38591), (Start: 25 @38597 has 5 MA's), (Start: 36 @38654 has 12 MA's), (45, 38804),

Gene: Kaylissa_69 Start: 43024, Stop: 43287, Start Num: 17
Candidate Starts for Kaylissa_69:
(9, 42952), (Start: 14 @43015 has 8 MA's), (Start: 17 @43024 has 21 MA's), (28, 43054), (56, 43282),

Gene: LadyAstra_65 Start: 41952, Stop: 42257, Start Num: 27
Candidate Starts for LadyAstra_65:
(Start: 27 @41952 has 4 MA's), (51, 42216), (61, 42252),

Gene: Lego_67 Start: 42346, Stop: 42609, Start Num: 17
Candidate Starts for Lego_67:
(5, 42157), (9, 42274), (Start: 14 @42337 has 8 MA's), (Start: 17 @42346 has 21 MA's), (28, 42376), (56, 42604),

Gene: Liebe_67 Start: 44554, Stop: 44811, Start Num: 20
Candidate Starts for Liebe_67:
(Start: 20 @44554 has 5 MA's), (49, 44767), (50, 44785), (56, 44806),

Gene: LisoBros_63 Start: 43444, Stop: 43713, Start Num: 35
Candidate Starts for LisoBros_63:
(12, 43339), (Start: 17 @43351 has 21 MA's), (28, 43408), (Start: 35 @43444 has 3 MA's), (38, 43471), (60, 43708),

Gene: Lizalica_67 Start: 41945, Stop: 42199, Start Num: 17
Candidate Starts for Lizalica_67:
(1, 41612), (5, 41753), (9, 41873), (Start: 14 @41936 has 8 MA's), (Start: 17 @41945 has 21 MA's), (28, 41978), (48, 42146), (52, 42194),

Gene: London_67 Start: 42514, Stop: 42795, Start Num: 18
Candidate Starts for London_67:
(Start: 14 @42502 has 8 MA's), (Start: 16 @42505 has 2 MA's), (Start: 18 @42514 has 12 MA's), (48, 42742), (54, 42790),

Gene: MaGuCo_61 Start: 42675, Stop: 42932, Start Num: 20
Candidate Starts for MaGuCo_61:
(Start: 20 @42675 has 5 MA's), (50, 42906), (56, 42927),

Gene: Maureen_67 Start: 44553, Stop: 44810, Start Num: 20
Candidate Starts for Maureen_67:
(Start: 20 @44553 has 5 MA's), (49, 44766), (50, 44784), (56, 44805),

Gene: Michkear_69 Start: 45045, Stop: 45314, Start Num: 19

Candidate Starts for Michkear_69:
(19, 45045),

Gene: MiniMommy_67 Start: 42328, Stop: 42624, Start Num: 29
Candidate Starts for MiniMommy_67:
(Start: 29 @42328 has 3 MA's), (61, 42619),

Gene: MissSwiss_68 Start: 41433, Stop: 41789, Start Num: 18
Candidate Starts for MissSwiss_68:
(6, 41250), (7, 41298), (8, 41304), (Start: 18 @41433 has 12 MA's), (42, 41613), (44, 41682), (59, 41784),

Gene: Moss_60 Start: 38754, Stop: 39026, Start Num: 36
Candidate Starts for Moss_60:
(Start: 25 @38697 has 5 MA's), (Start: 36 @38754 has 12 MA's),

Gene: Mudpuppy_66 Start: 42711, Stop: 42965, Start Num: 17
Candidate Starts for Mudpuppy_66:
(1, 42384), (5, 42522), (9, 42639), (Start: 14 @42702 has 8 MA's), (Start: 17 @42711 has 21 MA's), (28, 42744), (52, 42960),

Gene: Mysterium_59 Start: 38595, Stop: 38867, Start Num: 36
Candidate Starts for Mysterium_59:
(Start: 25 @38538 has 5 MA's), (Start: 36 @38595 has 12 MA's),

Gene: Niobe_67 Start: 42517, Stop: 42798, Start Num: 18
Candidate Starts for Niobe_67:
(Start: 14 @42505 has 8 MA's), (Start: 16 @42508 has 2 MA's), (Start: 18 @42517 has 12 MA's), (48, 42745), (54, 42793),

Gene: Nitro_68 Start: 43178, Stop: 43525, Start Num: 13
Candidate Starts for Nitro_68:
(Start: 13 @43178 has 1 MA's), (15, 43181), (Start: 18 @43190 has 12 MA's), (Start: 25 @43232 has 5 MA's), (44, 43430), (48, 43472), (53, 43520),

Gene: ObiToo_72 Start: 42845, Stop: 43153, Start Num: 14
Candidate Starts for ObiToo_72:
(5, 42662), (10, 42806), (Start: 14 @42845 has 8 MA's), (Start: 16 @42848 has 2 MA's), (28, 42884), (59, 43118), (62, 43148),

Gene: Origami_64 Start: 41744, Stop: 42049, Start Num: 27
Candidate Starts for Origami_64:
(Start: 27 @41744 has 4 MA's), (51, 42008), (61, 42044),

Gene: PandaPo_68 Start: 41440, Stop: 41796, Start Num: 18
Candidate Starts for PandaPo_68:
(6, 41257), (7, 41305), (8, 41311), (Start: 18 @41440 has 12 MA's), (42, 41620), (44, 41689), (59, 41791),

Gene: Phives_68 Start: 42999, Stop: 43331, Start Num: 18
Candidate Starts for Phives_68:
(2, 42672), (4, 42771), (9, 42924), (10, 42948), (Start: 14 @42987 has 8 MA's), (Start: 16 @42990 has 2 MA's), (Start: 18 @42999 has 12 MA's), (Start: 25 @43041 has 5 MA's), (38, 43110), (48, 43278),

(56, 43326),

Gene: Pixelle_66 Start: 43257, Stop: 43547, Start Num: 17
Candidate Starts for Pixelle_66:
(1, 42930), (9, 43185), (12, 43245), (Start: 14 @43248 has 8 MA's), (Start: 17 @43257 has 21 MA's), (Start: 25 @43302 has 5 MA's),

Gene: Powerpuff_69 Start: 43550, Stop: 43813, Start Num: 17
Candidate Starts for Powerpuff_69:
(5, 43361), (9, 43478), (Start: 14 @43541 has 8 MA's), (Start: 17 @43550 has 21 MA's), (28, 43580), (56, 43808),

Gene: Pumpkins_65 Start: 42797, Stop: 43141, Start Num: 17
Candidate Starts for Pumpkins_65:
(Start: 14 @42788 has 8 MA's), (Start: 17 @42797 has 21 MA's), (Start: 25 @42845 has 5 MA's), (51, 43115), (55, 43136),

Gene: Reedo_67 Start: 40786, Stop: 41046, Start Num: 33
Candidate Starts for Reedo_67:
(19, 40723), (23, 40747), (Start: 33 @40786 has 2 MA's), (49, 41002), (56, 41041),

Gene: RockScotty_59 Start: 38590, Stop: 38862, Start Num: 36
Candidate Starts for RockScotty_59:
(Start: 25 @38533 has 5 MA's), (Start: 36 @38590 has 12 MA's),

Gene: Sabourin_60 Start: 38598, Stop: 38927, Start Num: 25
Candidate Starts for Sabourin_60:
(Start: 20 @38574 has 5 MA's), (22, 38592), (Start: 25 @38598 has 5 MA's), (Start: 36 @38655 has 12 MA's), (45, 38805),

Gene: Schaffner_65 Start: 42471, Stop: 42779, Start Num: 14
Candidate Starts for Schaffner_65:
(Start: 14 @42471 has 8 MA's), (Start: 16 @42474 has 2 MA's), (59, 42744), (62, 42774),

Gene: ShakeItOph_67 Start: 42320, Stop: 42616, Start Num: 29
Candidate Starts for ShakeItOph_67:
(Start: 29 @42320 has 3 MA's), (61, 42611),

Gene: Simpson_73 Start: 42743, Stop: 43015, Start Num: 14
Candidate Starts for Simpson_73:
(5, 42563), (9, 42680), (Start: 14 @42743 has 8 MA's), (Start: 17 @42752 has 21 MA's), (28, 42782), (56, 43010),

Gene: Skelbel_68 Start: 42517, Stop: 42798, Start Num: 18
Candidate Starts for Skelbel_68:
(Start: 14 @42505 has 8 MA's), (Start: 16 @42508 has 2 MA's), (Start: 18 @42517 has 12 MA's), (48, 42745), (54, 42793),

Gene: Snek_67 Start: 39932, Stop: 40216, Start Num: 11
Candidate Starts for Snek_67:
(Start: 11 @39932 has 2 MA's), (41, 40037), (47, 40124), (56, 40211),

Gene: Soondubu_61 Start: 44124, Stop: 44414, Start Num: 30

Candidate Starts for Soondubu_61:
(Start: 30 @44124 has 1 MA's), (46, 44304),

Gene: Sooty_60 Start: 38669, Stop: 38941, Start Num: 36
Candidate Starts for Sooty_60:
(Start: 20 @38588 has 5 MA's), (22, 38606), (Start: 25 @38612 has 5 MA's), (Start: 36 @38669 has 12 MA's), (45, 38819),

Gene: SpecialK_60 Start: 38663, Stop: 38935, Start Num: 36
Candidate Starts for SpecialK_60:
(Start: 25 @38606 has 5 MA's), (Start: 36 @38663 has 12 MA's),

Gene: Stuu_60 Start: 38715, Stop: 39044, Start Num: 25
Candidate Starts for Stuu_60:
(Start: 25 @38715 has 5 MA's), (Start: 36 @38772 has 12 MA's),

Gene: Subaru_66 Start: 42273, Stop: 42554, Start Num: 18
Candidate Starts for Subaru_66:
(9, 42198), (Start: 14 @42261 has 8 MA's), (Start: 16 @42264 has 2 MA's), (Start: 18 @42273 has 12 MA's), (Start: 25 @42315 has 5 MA's), (48, 42501), (54, 42549),

Gene: Tallboi_67 Start: 42522, Stop: 42788, Start Num: 32
Candidate Starts for Tallboi_67:
(31, 42513), (Start: 32 @42522 has 1 MA's), (44, 42687), (56, 42783),

Gene: Tbone_67 Start: 42998, Stop: 43252, Start Num: 17
Candidate Starts for Tbone_67:
(5, 42809), (9, 42926), (Start: 14 @42989 has 8 MA's), (Start: 17 @42998 has 21 MA's), (28, 43031), (52, 43247),

Gene: TforTroy_67 Start: 42451, Stop: 42801, Start Num: 17
Candidate Starts for TforTroy_67:
(1, 42121), (10, 42403), (Start: 14 @42442 has 8 MA's), (Start: 17 @42451 has 21 MA's), (Start: 25 @42499 has 5 MA's),

Gene: ThursdayNight_72 Start: 44398, Stop: 44727, Start Num: 17
Candidate Starts for ThursdayNight_72:
(Start: 17 @44398 has 21 MA's),

Gene: Tian_65 Start: 43143, Stop: 43451, Start Num: 12
Candidate Starts for Tian_65:
(1, 42828), (9, 43083), (12, 43143), (Start: 14 @43146 has 8 MA's), (Start: 17 @43155 has 21 MA's), (Start: 25 @43200 has 5 MA's), (58, 43446),

Gene: Tuck_67 Start: 42787, Stop: 43119, Start Num: 18
Candidate Starts for Tuck_67:
(2, 42460), (4, 42559), (9, 42712), (10, 42736), (Start: 14 @42775 has 8 MA's), (Start: 16 @42778 has 2 MA's), (Start: 18 @42787 has 12 MA's), (Start: 25 @42829 has 5 MA's), (38, 42898), (48, 43066), (56, 43114),

Gene: Turab_65 Start: 41972, Stop: 42316, Start Num: 17
Candidate Starts for Turab_65:

(2, 41645), (3, 41654), (9, 41900), (Start: 14 @41963 has 8 MA's), (Start: 17 @41972 has 21 MA's), (Start: 25 @42017 has 5 MA's), (44, 42215), (56, 42311),

Gene: Tutumahutu_69 Start: 42593, Stop: 42856, Start Num: 17
Candidate Starts for Tutumahutu_69:
(5, 42404), (9, 42521), (Start: 14 @42584 has 8 MA's), (Start: 17 @42593 has 21 MA's), (28, 42623), (56, 42851),

Gene: Tweety19_68 Start: 39933, Stop: 40217, Start Num: 11
Candidate Starts for Tweety19_68:
(Start: 11 @39933 has 2 MA's), (41, 40038), (47, 40125), (56, 40212),

Gene: VResidence_69 Start: 40961, Stop: 41224, Start Num: 33
Candidate Starts for VResidence_69:
(Start: 33 @40961 has 2 MA's), (40, 41036),

Gene: VroomVroom_64 Start: 41876, Stop: 42163, Start Num: 27
Candidate Starts for VroomVroom_64:
(Start: 27 @41876 has 4 MA's), (61, 42158),

Gene: Warda_68 Start: 42724, Stop: 42978, Start Num: 17
Candidate Starts for Warda_68:
(1, 42397), (5, 42535), (9, 42652), (Start: 14 @42715 has 8 MA's), (Start: 17 @42724 has 21 MA's), (28, 42757), (52, 42973),

Gene: Wildwest_64 Start: 42676, Stop: 42942, Start Num: 14
Candidate Starts for Wildwest_64:
(9, 42613), (Start: 14 @42676 has 8 MA's), (56, 42937),

Gene: Yang_66 Start: 42085, Stop: 42387, Start Num: 14
Candidate Starts for Yang_66:
(Start: 14 @42085 has 8 MA's), (Start: 16 @42088 has 2 MA's), (50, 42325), (57, 42355), (62, 42382),

Gene: YesChef_67 Start: 42409, Stop: 42672, Start Num: 17
Candidate Starts for YesChef_67:
(5, 42220), (9, 42337), (Start: 14 @42400 has 8 MA's), (Start: 17 @42409 has 21 MA's), (28, 42439), (56, 42667),