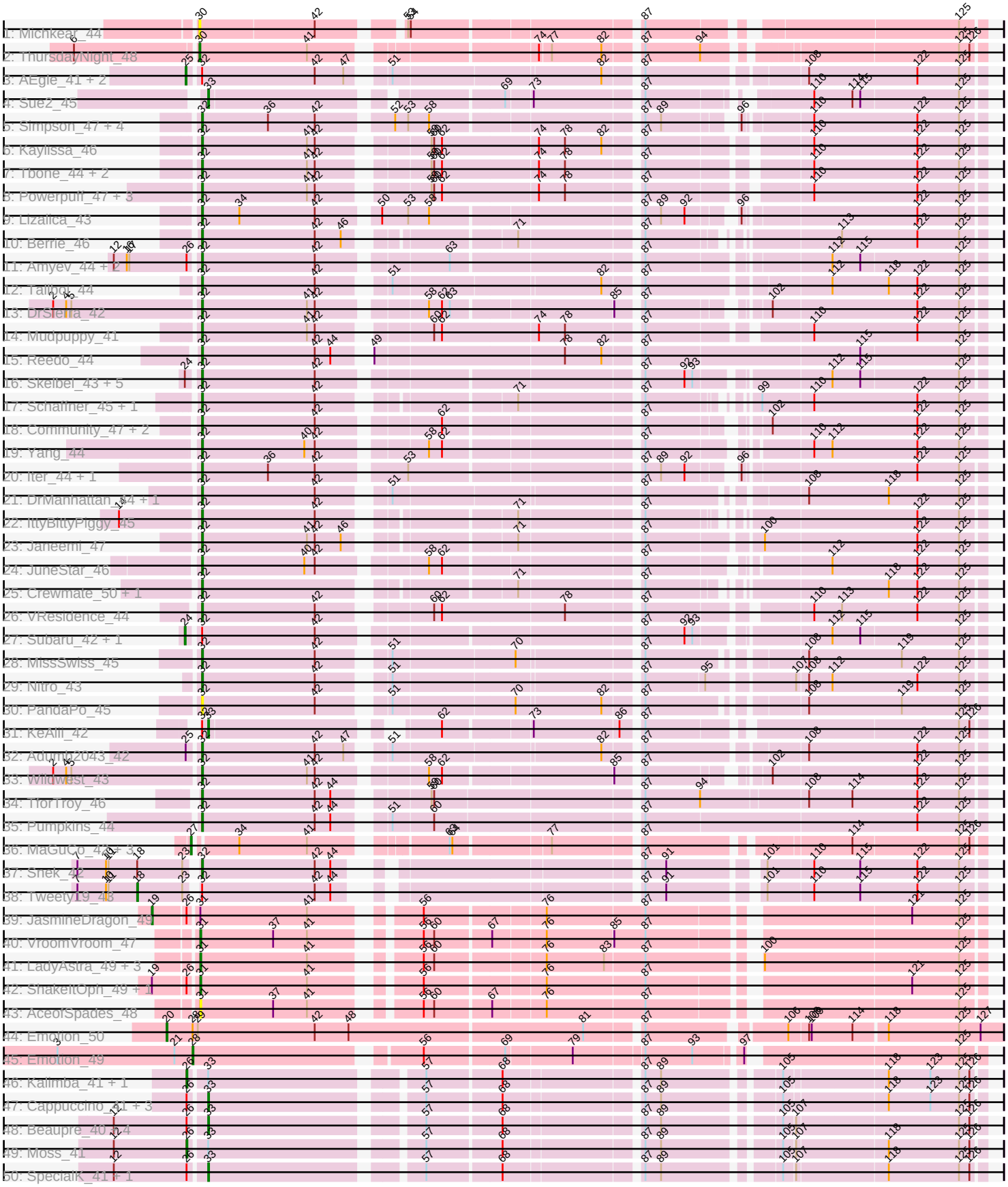
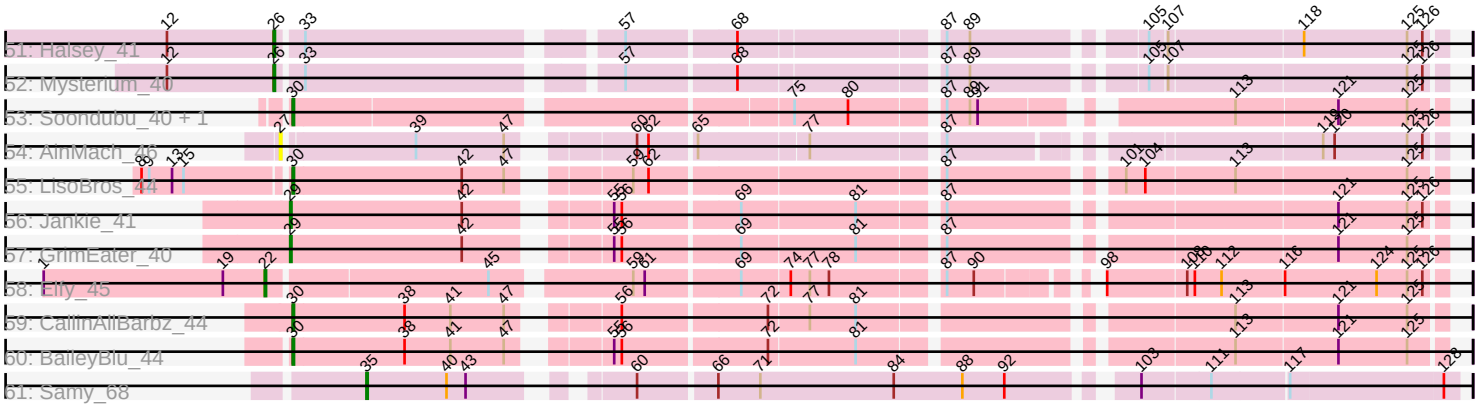
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1: Michkear_44
2: ThursdayNight_48
3: AEgle_41 + 2
4: Sue2_45
5: Simpson_47 + 4
6: Kaylissa_46
7: Tbone_44 + 2
8: Powerpuff_47 + 3
9: Lizalica_43
10: Berrie_46
11: Amyev_44 + 2
12: Talbot_44
13: DrSierra_42
14: Mudpuppy_41
15: Reedo_44
16: Skelbei_43 + 5
17: Schaffner_45 + 1
18: Community_47 + 2
19: Yang_44
20: Iter_44 + 1
21: DrManhattan_44 + 1
22: IttyBittyPiggy_45
23: Janeemi_47
24: JuneStar_46
25: Crewmate_50 + 1
26: VResidence_44
27: Subaru_42 + 1
28: MissSwiss_45
29: Nitro_43
30: PandaPo_45
31: KeAlli_42
32: Adumb2043_42
33: Wildwest_43
34: ThorTroy_46
35: Pumpkins_44
36: MaGuCo_42 + 3
37: Snek_42
38: Tweety19_43
39: JasmineDragon_49
40: VroomVroom_47
41: LadyAstra_49 + 3
42: ShakeItOph_49 + 1
43: AceofSpades_48
44: Emotion_50
45: Emotion_49
46: Kalimba_41 + 1
47: Cappuccino_41 + 3
48: Beaupre_40 + 4
49: Moss_41
50: SpecialK_41 + 1

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51: Halsey_41
52: Mysterium_40
53: Soondubu_40 + 1
54: AlnMach_46
55: LisoBros_44
56: Jankie_41
57: GrimEater_40
58: Elly_45
59: CallmAllBaroz_44
60: BaileyBlu_44
61: Samy_68

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 347447 Report

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

Pham number 347447 has 103 members, 14 are drafts.

Phages represented in each track:
- Track 1 : Michkear_44
- Track 2 : ThursdayNight_48
- Track 3 : AEgle_41, Amploria_44, Turab_41
- Track 4 : Sue2_45
- Track 5 : Simpson_47, Cyan_45, JohnDoe_45, Joemato_45, Flutur_44
- Track 6 : Kaylissa_46
- Track 7 : Tbone_44, Warda_45, AGrandiflora_47
- Track 8 : Powerpuff_47, Tutumahutu_46, Lego_44, YesChef_45
- Track 9 : Lizalica_43
- Track 10 : Berrie_46
- Track 11 : Amyev_44, Pixelle_45, Tian_43
- Track 12 : Tallboi_44
- Track 13 : DrSierra_42
- Track 14 : Mudpuppy_41
- Track 15 : Reedo_44
- Track 16 : Skelbel_43, Asa16_42, Niobe_42, Eraser_42, London_42, Elezi_42
- Track 17 : Schaffner_45, Cassia_44
- Track 18 : Community_47, Phives_48, Tuck_48
- Track 19 : Yang_44
- Track 20 : Iter_44, Ascela_44
- Track 21 : DrManhattan_44, Adolin_45
- Track 22 : IttyBittyPiggy_45
- Track 23 : Janeemi_47
- Track 24 : JuneStar_46
- Track 25 : Crewmate_50, ObiToo_50
- Track 26 : VResidence_44
- Track 27 : Subaru_42, Jstan_44
- Track 28 : MissSwiss_45
- Track 29 : Nitro_43
- Track 30 : PandaPo_45
- Track 31 : KeAlii_42
- Track 32 : Adumb2043_42
- Track 33 : Wildwest_43
- Track 34 : TforTroy_46
- Track 35 : Pumpkins_44
- Track 36 : MaGuCo_42, IUFootball_45, Liebe_45, Maureen_45
- Track 37 : Snek_42

• Track 38 : Tweety19_43
• Track 39 : JasmineDragon_49
• Track 40 : VroomVroom_47
• Track 41 : LadyAstra_49, FiveHead_52, JohnThicc_48, Origami_48
• Track 42 : ShakeItOph_49, MiniMommy_49
• Track 43 : AceofSpades_48
• Track 44 : Emotion_50
• Track 45 : Emotion_49
• Track 46 : Kalimba_41, Donkey_41
• Track 47 : Cappuccino_41, Gambol_42, Sabourin_41, Sooty_41
• Track 48 : Beaupre_40, Giorgio_40, Gumpizza_40, Ashes_41, RockScotty_40
• Track 49 : Moss_41
• Track 50 : SpecialK_41, Stuu_41
• Track 51 : Halsey_41
• Track 52 : Mysterium_40
• Track 53 : Soondubu_40, Exile_39
• Track 54 : AinMach_46
• Track 55 : LisoBros_44
• Track 56 : Jankie_41
• Track 57 : GrimEater_40
• Track 58 : Elfy_45
• Track 59 : CallinAllBarbz_44
• Track 60 : BaileyBlu_44
• Track 61 : Samy_68

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

The start number called the most often in the published annotations is 32, it was called in 45 of the 89 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AGrandiflora_47, Adolin_45, Adumb2043_42, Amyev_44, Asa16_42, Ascela_44, Berrie_46, Cassia_44, Community_47, Crewmate_50, Cyan_45, DrManhattan_44, DrSierra_42, Elezi_42, Eraser_42, Flutur_44, Iter_44, IttyBittyPiggy_45, Janeemi_47, Joemato_45, JohnDoe_45, JuneStar_46, Kaylissa_46, Lego_44, Lizalica_43, London_42, MissSwiss_45, Mudpuppy_41, Niobe_42, Nitro_43, ObiToo_50, PandaPo_45, Phives_48, Pixelle_45, Powerpuff_47, Pumpkins_44, Reedo_44, Schaffner_45, Simpson_47, Skelbel_43, Snek_42, Tallboi_44, Tbone_44, TforTroy_46, Tian_43, Tuck_48, Tutumahutu_46, VResidence_44, Warda_45, Wildwest_43, Yang_44, YesChef_45,

Genes that have the "Most Annotated" start but do not call it:
• AEgle_41, Amploria_44, Jstan_44, KeAlii_42, Subaru_42, Turab_41, Tweety19_43,

Genes that do not have the "Most Annotated" start:
• AceofSpades_48, AinMach_46, Ashes_41, BaileyBlu_44, Beaupre_40, CallinAllBarbz_44, Cappuccino_41, Donkey_41, Elfy_45, Emotion_49, Emotion_50, Exile_39, FiveHead_52, Gambol_42, Giorgio_40, GrimEater_40, Gumpizza_40, Halsey_41, IUFootball_45, Jankie_41, JasmineDragon_49, JohnThicc_48, Kalimba_41, LadyAstra_49, Liebe_45, LisoBros_44, MaGuCo_42, Maureen_45,

Michkear_44, MiniMommy_49, Moss_41, Mysterium_40, Origami_48, RockScotty_40, Sabourin_41, Samy_68, ShakeItOph_49, Soondubu_40, Sooty_41, SpecialK_41, Stuu_41, Sue2_45, ThursdayNight_48, VroomVroom_47,

Summary by start number:

Start 18:
• Found in 2 of 103 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Tweety19_43 (AZ3),

Start 19:
• Found in 4 of 103 (3.9%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 25.0% of time when present
• Phage (with cluster) where this start called: JasmineDragon_49 (AZ4),

Start 20:
• Found in 1 of 103 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Emotion_50 (AZ4),

Start 22:
• Found in 1 of 103 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elfy_45 (FP),

Start 24:
• Found in 8 of 103 (7.8%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Jstan_44 (AZ1), Subaru_42 (AZ1),

Start 25:
• Found in 4 of 103 (3.9%) of genes in pham
• Manual Annotations of this start: 2 of 89
• Called 75.0% of time when present
• Phage (with cluster) where this start called: AEgle_41 (AZ1), Amploria_44 (AZ1), Turab_41 (AZ1),

Start 26:
• Found in 22 of 103 (21.4%) of genes in pham
• Manual Annotations of this start: 5 of 89
• Called 22.7% of time when present
• Phage (with cluster) where this start called: Donkey_41 (AZ5), Halsey_41 (AZ5), Kalimba_41 (AZ5), Moss_41 (AZ5), Mysterium_40 (AZ5),

Start 27:
• Found in 5 of 103 (4.9%) of genes in pham
• Manual Annotations of this start: 4 of 89

• Called 100.0% of time when present
• Phage (with cluster) where this start called: AinMach_46 (AZ7), IUFootball_45 (AZ2), Liebe_45 (AZ2), MaGuCo_42 (AZ2), Maureen_45 (AZ2),

Start 28:
• Found in 2 of 103 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Emotion_49 (AZ4),

Start 29:
• Found in 3 of 103 (2.9%) of genes in pham
• Manual Annotations of this start: 2 of 89
• Called 66.7% of time when present
• Phage (with cluster) where this start called: GrimEater_40 (FP), Jankie_41 (FP),

Start 30:
• Found in 7 of 103 (6.8%) of genes in pham
• Manual Annotations of this start: 5 of 89
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_44 (FP), CallinAllBarbz_44 (FP), Exile_39 (AZ6), LisoBros_44 (FP), Michkear_44 (AZ), Soondubu_40 (AZ6), ThursdayNight_48 (AZ),

Start 31:
• Found in 9 of 103 (8.7%) of genes in pham
• Manual Annotations of this start: 6 of 89
• Called 88.9% of time when present
• Phage (with cluster) where this start called: AceofSpades_48 (AZ4), FiveHead_52 (AZ4), JohnThicc_48 (AZ4), LadyAstra_49 (AZ4), MiniMommy_49 (AZ4), Origami_48 (AZ4), ShakeItOph_49 (AZ4), VroomVroom_47 (AZ4),

Start 32:
• Found in 59 of 103 (57.3%) of genes in pham
• Manual Annotations of this start: 45 of 89
• Called 88.1% of time when present
• Phage (with cluster) where this start called: AGrandiflora_47 (AZ1), Adolin_45 (AZ1), Adumb2043_42 (AZ1), Amyev_44 (AZ1), Asa16_42 (AZ1), Ascela_44 (AZ1), Berrie_46 (AZ1), Cassia_44 (AZ1), Community_47 (AZ1), Crewmate_50 (AZ1), Cyan_45 (AZ1), DrManhattan_44 (AZ1), DrSierra_42 (AZ1), Elezi_42 (AZ1), Eraser_42 (AZ1), Flutur_44 (AZ), Iter_44 (AZ1), IttyBittyPiggy_45 (AZ1), Janeemi_47 (AZ1), Joemato_45 (AZ1), JohnDoe_45 (AZ1), JuneStar_46 (AZ1), Kaylissa_46 (AZ1), Lego_44 (AZ1), Lizalica_43 (AZ1), London_42 (AZ1), MissSwiss_45 (AZ1), Mudpuppy_41 (AZ1), Niobe_42 (AZ1), Nitro_43 (AZ1), ObiToo_50 (AZ1), PandaPo_45 (AZ1), Phives_48 (AZ1), Pixelle_45 (AZ1), Powerpuff_47 (AZ1), Pumpkins_44 (AZ1), Reedo_44 (AZ1), Schaffner_45 (AZ1), Simpson_47 (AZ1), Skelbel_43 (AZ1), Snek_42 (AZ3), Tallboi_44 (AZ1), Tbone_44 (AZ1), TforTroy_46 (AZ1), Tian_43 (AZ1), Tuck_48 (AZ1), Tutumahutu_46 (AZ1), VResidence_44 (AZ1), Warda_45 (AZ1), Wildwest_43 (AZ1), Yang_44 (AZ1), YesChef_45 (AZ1),

Start 33:
• Found in 18 of 103 (17.5%) of genes in pham
• Manual Annotations of this start: 13 of 89

• Called 72.2% of time when present
• Phage (with cluster) where this start called: Ashes_41 (AZ5), Beaupre_40 (AZ5), Cappuccino_41 (AZ5), Gambol_42 (AZ5), Giorgio_40 (AZ5), Gumpizza_40 (AZ5), KeAlii_42 (AZ1), RockScotty_40 (AZ5), Sabourin_41 (AZ5), Sooty_41 (AZ5), SpecialK_41 (AZ5), Stuu_41 (AZ5), Sue2_45 (AZ1),

Start 35:
• Found in 1 of 103 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 89
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Samy_68 (singleton),

Summary by clusters:

There are 10 clusters represented in this pham: FP, singleton, AZ3, AZ1, AZ2, AZ, AZ4, AZ5, AZ6, AZ7,

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

Info for manual annotations of cluster AZ1:
•Start number 24 was manually annotated 1 time for cluster AZ1.
•Start number 25 was manually annotated 2 times for cluster AZ1.
•Start number 32 was manually annotated 44 times for cluster AZ1.
•Start number 33 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 27 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 18 was manually annotated 1 time for cluster AZ3.
•Start number 32 was manually annotated 1 time for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 19 was manually annotated 1 time for cluster AZ4.
•Start number 20 was manually annotated 1 time for cluster AZ4.
•Start number 28 was manually annotated 1 time for cluster AZ4.
•Start number 31 was manually annotated 6 times for cluster AZ4.

Info for manual annotations of cluster AZ5:
•Start number 26 was manually annotated 5 times for cluster AZ5.
•Start number 33 was manually annotated 11 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 22 was manually annotated 1 time for cluster FP.
•Start number 29 was manually annotated 2 times for cluster FP.
•Start number 30 was manually annotated 3 times for cluster FP.

Gene Information:

Gene: AEgle_41 Start: 31604, Stop: 32437, Start Num: 25
Candidate Starts for AEgle_41:
(Start: 25 @31604 has 2 MA's), (Start: 32 @31616 has 45 MA's), (42, 31745), (47, 31778), (51, 31808), (82, 32036), (87, 32072), (108, 32240), (122, 32363), (125, 32411),

Gene: AGrandiflora_47 Start: 32890, Stop: 33708, Start Num: 32
Candidate Starts for AGrandiflora_47:
(Start: 32 @32890 has 45 MA's), (41, 33010), (42, 33019), (59, 33124), (60, 33127), (62, 33136), (74, 33244), (78, 33274), (87, 33352), (110, 33517), (122, 33634), (125, 33682),

Gene: AceofSpades_48 Start: 33235, Stop: 34047, Start Num: 31
Candidate Starts for AceofSpades_48:
(Start: 31 @33235 has 6 MA's), (37, 33319), (41, 33358), (56, 33457), (60, 33469), (67, 33529), (76, 33586), (87, 33697), (125, 34021),

Gene: Adolin_45 Start: 31088, Stop: 31897, Start Num: 32
Candidate Starts for Adolin_45:
(Start: 32 @31088 has 45 MA's), (42, 31217), (51, 31280), (87, 31544), (108, 31700), (118, 31790), (125, 31871),

Gene: Adumb2043_42 Start: 31635, Stop: 32456, Start Num: 32
Candidate Starts for Adumb2043_42:
(Start: 25 @31623 has 2 MA's), (Start: 32 @31635 has 45 MA's), (42, 31764), (47, 31797), (51, 31827), (82, 32055), (87, 32091), (108, 32259), (122, 32382), (125, 32430),

Gene: AinMach_46 Start: 32886, Stop: 33686, Start Num: 27
Candidate Starts for AinMach_46:
(Start: 27 @32886 has 4 MA's), (39, 32982), (47, 33051), (60, 33126), (62, 33135), (65, 33168), (77, 33249), (87, 33342), (119, 33594), (120, 33603), (125, 33660), (126, 33672),

Gene: Amploria_44 Start: 31806, Stop: 32639, Start Num: 25
Candidate Starts for Amploria_44:
(Start: 25 @31806 has 2 MA's), (Start: 32 @31818 has 45 MA's), (42, 31947), (47, 31980), (51, 32010), (82, 32238), (87, 32274), (108, 32442), (122, 32565), (125, 32613),

Gene: Amyev_44 Start: 33180, Stop: 33998, Start Num: 32
Candidate Starts for Amyev_44:
(12, 33087), (16, 33102), (17, 33105), (Start: 26 @33171 has 5 MA's), (Start: 32 @33180 has 45 MA's), (42, 33309), (63, 33441), (87, 33642), (112, 33831), (115, 33861), (125, 33972),

Gene: Asa16_42 Start: 32994, Stop: 33812, Start Num: 32
Candidate Starts for Asa16_42:
(Start: 24 @32982 has 1 MA's), (Start: 32 @32994 has 45 MA's), (42, 33123), (87, 33456), (92, 33501), (93, 33510), (112, 33645), (115, 33675), (125, 33786),

Gene: Ascela_44 Start: 32212, Stop: 33024, Start Num: 32
Candidate Starts for Ascela_44:
(Start: 32 @32212 has 45 MA's), (36, 32287), (42, 32341), (53, 32431), (87, 32677), (89, 32695), (92, 32722), (96, 32764), (122, 32950), (125, 32998),

Gene: Ashes_41 Start: 30453, Stop: 31253, Start Num: 33

Candidate Starts for Ashes_41:
(12, 30351), (Start: 26 @30435 has 5 MA's), (Start: 33 @30453 has 13 MA's), (57, 30675), (68, 30756), (87, 30900), (89, 30918), (105, 31035), (107, 31047), (125, 31227), (126, 31239),

Gene: BaileyBlu_44 Start: 31818, Stop: 32633, Start Num: 30
Candidate Starts for BaileyBlu_44:
(Start: 30 @31818 has 5 MA's), (38, 31905), (41, 31941), (47, 31983), (55, 32040), (56, 32046), (72, 32154), (81, 32220), (113, 32475), (121, 32553), (125, 32607),

Gene: Beaupre_40 Start: 30263, Stop: 31063, Start Num: 33
Candidate Starts for Beaupre_40:
(12, 30161), (Start: 26 @30245 has 5 MA's), (Start: 33 @30263 has 13 MA's), (57, 30485), (68, 30566), (87, 30710), (89, 30728), (105, 30845), (107, 30857), (125, 31037), (126, 31049),

Gene: Berrie_46 Start: 33402, Stop: 34193, Start Num: 32
Candidate Starts for Berrie_46:
(Start: 32 @33402 has 45 MA's), (42, 33531), (46, 33561), (71, 33720), (87, 33849), (113, 34032), (122, 34119), (125, 34167),

Gene: CallinAllBarbz_44 Start: 32005, Stop: 32820, Start Num: 30
Candidate Starts for CallinAllBarbz_44:
(Start: 30 @32005 has 5 MA's), (38, 32092), (41, 32128), (47, 32170), (56, 32233), (72, 32341), (77, 32371), (81, 32407), (113, 32662), (121, 32740), (125, 32794),

Gene: Cappuccino_41 Start: 30322, Stop: 31122, Start Num: 33
Candidate Starts for Cappuccino_41:
(Start: 26 @30304 has 5 MA's), (Start: 33 @30322 has 13 MA's), (57, 30544), (68, 30625), (87, 30769), (89, 30787), (105, 30904), (118, 31015), (123, 31063), (125, 31096), (126, 31108),

Gene: Cassia_44 Start: 32176, Stop: 32967, Start Num: 32
Candidate Starts for Cassia_44:
(Start: 32 @32176 has 45 MA's), (42, 32305), (71, 32494), (87, 32623), (99, 32719), (110, 32776), (122, 32893), (125, 32941),

Gene: Community_47 Start: 34215, Stop: 35021, Start Num: 32
Candidate Starts for Community_47:
(Start: 32 @34215 has 45 MA's), (42, 34344), (62, 34467), (87, 34674), (102, 34785), (122, 34947), (125, 34995),

Gene: Crewmate_50 Start: 32863, Stop: 33654, Start Num: 32
Candidate Starts for Crewmate_50:
(Start: 32 @32863 has 45 MA's), (71, 33181), (87, 33310), (118, 33547), (122, 33580), (125, 33628),

Gene: Cyan_45 Start: 32495, Stop: 33307, Start Num: 32
Candidate Starts for Cyan_45:
(Start: 32 @32495 has 45 MA's), (36, 32570), (42, 32624), (52, 32699), (53, 32714), (58, 32738), (87, 32960), (89, 32978), (96, 33047), (110, 33116), (122, 33233), (125, 33281),

Gene: Donkey_41 Start: 30294, Stop: 31112, Start Num: 26
Candidate Starts for Donkey_41:
(Start: 26 @30294 has 5 MA's), (Start: 33 @30312 has 13 MA's), (57, 30534), (68, 30615), (87, 30759), (89, 30777), (105, 30894), (118, 31005), (123, 31053), (125, 31086), (126, 31098),

Gene: DrManhattan_44 Start: 30654, Stop: 31463, Start Num: 32
Candidate Starts for DrManhattan_44:
(Start: 32 @30654 has 45 MA's), (42, 30783), (51, 30846), (87, 31110), (108, 31266), (118, 31356), (125, 31437),

Gene: DrSierra_42 Start: 30494, Stop: 31300, Start Num: 32
Candidate Starts for DrSierra_42:
(2, 30329), (4, 30344), (5, 30350), (Start: 32 @30494 has 45 MA's), (41, 30614), (42, 30623), (58, 30731), (62, 30746), (63, 30755), (85, 30929), (87, 30953), (102, 31064), (122, 31226), (125, 31274),

Gene: Elezi_42 Start: 32991, Stop: 33809, Start Num: 32
Candidate Starts for Elezi_42:
(Start: 24 @32979 has 1 MA's), (Start: 32 @32991 has 45 MA's), (42, 33120), (87, 33453), (92, 33498), (93, 33507), (112, 33642), (115, 33672), (125, 33783),

Gene: Elfy_45 Start: 31645, Stop: 32472, Start Num: 22
Candidate Starts for Elfy_45:
(1, 31471), (Start: 19 @31612 has 1 MA's), (Start: 22 @31645 has 1 MA's), (45, 31810), (59, 31906), (61, 31915), (69, 31984), (74, 32020), (77, 32035), (78, 32050), (87, 32128), (90, 32149), (98, 32218), (108, 32278), (110, 32284), (112, 32305), (116, 32350), (124, 32422), (125, 32446), (126, 32458),

Gene: Emotion_50 Start: 34867, Stop: 35778, Start Num: 20
Candidate Starts for Emotion_50:
(Start: 20 @34867 has 1 MA's), (Start: 28 @34897 has 1 MA's), (Start: 29 @34903 has 2 MA's), (42, 35038), (48, 35077), (81, 35341), (87, 35398), (106, 35542), (108, 35563), (109, 35566), (114, 35611), (118, 35647), (125, 35728), (127, 35752),

Gene: Emotion_49 Start: 33922, Stop: 34743, Start Num: 28
Candidate Starts for Emotion_49:
(3, 33766), (21, 33901), (Start: 28 @33922 has 1 MA's), (56, 34159), (69, 34246), (79, 34318), (87, 34393), (93, 34447), (97, 34495), (125, 34717),

Gene: Eraser_42 Start: 33001, Stop: 33819, Start Num: 32
Candidate Starts for Eraser_42:
(Start: 24 @32989 has 1 MA's), (Start: 32 @33001 has 45 MA's), (42, 33130), (87, 33463), (92, 33508), (93, 33517), (112, 33652), (115, 33682), (125, 33793),

Gene: Exile_39 Start: 33484, Stop: 34293, Start Num: 30
Candidate Starts for Exile_39:
(Start: 30 @33484 has 5 MA's), (75, 33844), (80, 33886), (87, 33949), (89, 33967), (91, 33973), (113, 34135), (121, 34213), (125, 34267),

Gene: FiveHead_52 Start: 33199, Stop: 34014, Start Num: 31
Candidate Starts for FiveHead_52:
(Start: 31 @33199 has 6 MA's), (41, 33322), (56, 33421), (60, 33433), (76, 33550), (83, 33616), (87, 33661), (100, 33769), (125, 33988),

Gene: Flutur_44 Start: 32752, Stop: 33564, Start Num: 32
Candidate Starts for Flutur_44:
(Start: 32 @32752 has 45 MA's), (36, 32827), (42, 32881), (52, 32956), (53, 32971), (58, 32995), (87, 33217), (89, 33235), (96, 33304), (110, 33373), (122, 33490), (125, 33538),

Gene: Gambol_42 Start: 30331, Stop: 31131, Start Num: 33

Candidate Starts for Gambol_42:
(Start: 26 @30313 has 5 MA's), (Start: 33 @30331 has 13 MA's), (57, 30553), (68, 30634), (87, 30778), (89, 30796), (105, 30913), (118, 31024), (123, 31072), (125, 31105), (126, 31117),

Gene: Giorgio_40 Start: 30246, Stop: 31046, Start Num: 33
Candidate Starts for Giorgio_40:
(12, 30144), (Start: 26 @30228 has 5 MA's), (Start: 33 @30246 has 13 MA's), (57, 30468), (68, 30549), (87, 30693), (89, 30711), (105, 30828), (107, 30840), (125, 31020), (126, 31032),

Gene: GrimEater_40 Start: 30496, Stop: 31314, Start Num: 29
Candidate Starts for GrimEater_40:
(Start: 29 @30496 has 2 MA's), (42, 30631), (55, 30721), (56, 30727), (69, 30814), (81, 30901), (87, 30958), (121, 31234), (125, 31288),

Gene: Gumpizza_40 Start: 30202, Stop: 31002, Start Num: 33
Candidate Starts for Gumpizza_40:
(12, 30100), (Start: 26 @30184 has 5 MA's), (Start: 33 @30202 has 13 MA's), (57, 30424), (68, 30505), (87, 30649), (89, 30667), (105, 30784), (107, 30796), (125, 30976), (126, 30988),

Gene: Halsey_41 Start: 30440, Stop: 31258, Start Num: 26
Candidate Starts for Halsey_41:
(12, 30356), (Start: 26 @30440 has 5 MA's), (Start: 33 @30458 has 13 MA's), (57, 30680), (68, 30761), (87, 30905), (89, 30923), (105, 31040), (107, 31052), (118, 31151), (125, 31232), (126, 31244),

Gene: IUFootball_45 Start: 33847, Stop: 34644, Start Num: 27
Candidate Starts for IUFootball_45:
(Start: 27 @33847 has 4 MA's), (34, 33889), (41, 33967), (63, 34096), (64, 34099), (77, 34201), (87, 34294), (114, 34498), (125, 34618), (126, 34630),

Gene: Iter_44 Start: 32207, Stop: 33019, Start Num: 32
Candidate Starts for Iter_44:
(Start: 32 @32207 has 45 MA's), (36, 32282), (42, 32336), (53, 32426), (87, 32672), (89, 32690), (92, 32717), (96, 32759), (122, 32945), (125, 32993),

Gene: IttyBittyPiggy_45 Start: 31970, Stop: 32758, Start Num: 32
Candidate Starts for IttyBittyPiggy_45:
(14, 31886), (Start: 32 @31970 has 45 MA's), (42, 32099), (71, 32288), (87, 32417), (122, 32684), (125, 32732),

Gene: Janeemi_47 Start: 34214, Stop: 35026, Start Num: 32
Candidate Starts for Janeemi_47:
(Start: 32 @34214 has 45 MA's), (41, 34334), (42, 34343), (46, 34373), (71, 34532), (87, 34661), (100, 34781), (122, 34952), (125, 35000),

Gene: Jankie_41 Start: 30673, Stop: 31491, Start Num: 29
Candidate Starts for Jankie_41:
(Start: 29 @30673 has 2 MA's), (42, 30808), (55, 30898), (56, 30904), (69, 30991), (81, 31078), (87, 31135), (121, 31411), (125, 31465), (126, 31477),

Gene: JasmineDragon_49 Start: 33132, Stop: 33989, Start Num: 19
Candidate Starts for JasmineDragon_49:
(Start: 19 @33132 has 1 MA's), (Start: 26 @33168 has 5 MA's), (Start: 31 @33177 has 6 MA's), (41, 33300), (56, 33399), (76, 33528), (87, 33639), (121, 33909), (125, 33963),

Gene: Joemato_45 Start: 32522, Stop: 33334, Start Num: 32
Candidate Starts for Joemato_45:
(Start: 32 @32522 has 45 MA's), (36, 32597), (42, 32651), (52, 32726), (53, 32741), (58, 32765), (87, 32987), (89, 33005), (96, 33074), (110, 33143), (122, 33260), (125, 33308),

Gene: JohnDoe_45 Start: 32518, Stop: 33330, Start Num: 32
Candidate Starts for JohnDoe_45:
(Start: 32 @32518 has 45 MA's), (36, 32593), (42, 32647), (52, 32722), (53, 32737), (58, 32761), (87, 32983), (89, 33001), (96, 33070), (110, 33139), (122, 33256), (125, 33304),

Gene: JohnThicc_48 Start: 33199, Stop: 34014, Start Num: 31
Candidate Starts for JohnThicc_48:
(Start: 31 @33199 has 6 MA's), (41, 33322), (56, 33421), (60, 33433), (76, 33550), (83, 33616), (87, 33661), (100, 33769), (125, 33988),

Gene: Jstan_44 Start: 32983, Stop: 33813, Start Num: 24
Candidate Starts for Jstan_44:
(Start: 24 @32983 has 1 MA's), (Start: 32 @32995 has 45 MA's), (42, 33124), (87, 33457), (92, 33502), (93, 33511), (112, 33646), (115, 33676), (125, 33787),

Gene: JuneStar_46 Start: 34096, Stop: 34911, Start Num: 32
Candidate Starts for JuneStar_46:
(Start: 32 @34096 has 45 MA's), (40, 34213), (42, 34225), (58, 34333), (62, 34348), (87, 34555), (112, 34735), (122, 34831), (125, 34879),

Gene: Kalimba_41 Start: 30291, Stop: 31109, Start Num: 26
Candidate Starts for Kalimba_41:
(Start: 26 @30291 has 5 MA's), (Start: 33 @30309 has 13 MA's), (57, 30531), (68, 30612), (87, 30756), (89, 30774), (105, 30891), (118, 31002), (123, 31050), (125, 31083), (126, 31095),

Gene: Kaylissa_46 Start: 32908, Stop: 33726, Start Num: 32
Candidate Starts for Kaylissa_46:
(Start: 32 @32908 has 45 MA's), (41, 33028), (42, 33037), (59, 33142), (60, 33145), (62, 33154), (74, 33262), (78, 33292), (82, 33334), (87, 33370), (110, 33535), (122, 33652), (125, 33700),

Gene: KeAlii_42 Start: 32155, Stop: 32934, Start Num: 33
Candidate Starts for KeAlii_42:
(Start: 32 @32149 has 45 MA's), (Start: 33 @32155 has 13 MA's), (62, 32374), (73, 32467), (86, 32563), (87, 32581), (125, 32908), (126, 32920),

Gene: LadyAstra_49 Start: 33299, Stop: 34114, Start Num: 31
Candidate Starts for LadyAstra_49:
(Start: 31 @33299 has 6 MA's), (41, 33422), (56, 33521), (60, 33533), (76, 33650), (83, 33716), (87, 33761), (100, 33869), (125, 34088),

Gene: Lego_44 Start: 32226, Stop: 33044, Start Num: 32
Candidate Starts for Lego_44:
(Start: 32 @32226 has 45 MA's), (41, 32346), (42, 32355), (59, 32460), (60, 32463), (62, 32472), (74, 32580), (78, 32610), (87, 32688), (110, 32853), (122, 32970), (125, 33018),

Gene: Liebe_45 Start: 33847, Stop: 34644, Start Num: 27
Candidate Starts for Liebe_45:

(Start: 27 @33847 has 4 MA's), (34, 33889), (41, 33967), (63, 34096), (64, 34099), (77, 34201), (87, 34294), (114, 34498), (125, 34618), (126, 34630),

Gene: LisoBros_44 Start: 34979, Stop: 35794, Start Num: 30
Candidate Starts for LisoBros_44:
(8, 34871), (9, 34877), (13, 34895), (15, 34904), (Start: 30 @34979 has 5 MA's), (42, 35111), (47, 35144), (59, 35216), (62, 35228), (87, 35438), (101, 35555), (104, 35570), (113, 35636), (125, 35768),

Gene: Lizalica_43 Start: 31676, Stop: 32488, Start Num: 32
Candidate Starts for Lizalica_43:
(Start: 32 @31676 has 45 MA's), (34, 31718), (42, 31805), (50, 31865), (53, 31895), (58, 31919), (87, 32141), (89, 32159), (92, 32186), (96, 32228), (122, 32414), (125, 32462),

Gene: London_42 Start: 32991, Stop: 33809, Start Num: 32
Candidate Starts for London_42:
(Start: 24 @32979 has 1 MA's), (Start: 32 @32991 has 45 MA's), (42, 33120), (87, 33453), (92, 33498), (93, 33507), (112, 33642), (115, 33672), (125, 33783),

Gene: MaGuCo_42 Start: 32331, Stop: 33128, Start Num: 27
Candidate Starts for MaGuCo_42:
(Start: 27 @32331 has 4 MA's), (34, 32373), (41, 32451), (63, 32580), (64, 32583), (77, 32685), (87, 32778), (114, 32982), (125, 33102), (126, 33114),

Gene: Maureen_45 Start: 33847, Stop: 34644, Start Num: 27
Candidate Starts for Maureen_45:
(Start: 27 @33847 has 4 MA's), (34, 33889), (41, 33967), (63, 34096), (64, 34099), (77, 34201), (87, 34294), (114, 34498), (125, 34618), (126, 34630),

Gene: Michkear_44 Start: 33150, Stop: 33947, Start Num: 30
Candidate Starts for Michkear_44:
(Start: 30 @33150 has 5 MA's), (42, 33279), (53, 33357), (54, 33360), (87, 33603), (125, 33921),

Gene: MiniMommy_49 Start: 33178, Stop: 33990, Start Num: 31
Candidate Starts for MiniMommy_49:
(Start: 19 @33133 has 1 MA's), (Start: 26 @33169 has 5 MA's), (Start: 31 @33178 has 6 MA's), (41, 33301), (56, 33400), (76, 33529), (87, 33640), (121, 33910), (125, 33964),

Gene: MissSwiss_45 Start: 31166, Stop: 31975, Start Num: 32
Candidate Starts for MissSwiss_45:
(Start: 32 @31166 has 45 MA's), (42, 31295), (51, 31358), (70, 31493), (87, 31622), (108, 31778), (119, 31883), (125, 31949),

Gene: Moss_41 Start: 30380, Stop: 31198, Start Num: 26
Candidate Starts for Moss_41:
(12, 30296), (Start: 26 @30380 has 5 MA's), (Start: 33 @30398 has 13 MA's), (57, 30620), (68, 30701), (87, 30845), (89, 30863), (105, 30980), (107, 30992), (118, 31091), (125, 31172), (126, 31184),

Gene: Mudpuppy_41 Start: 32165, Stop: 32983, Start Num: 32
Candidate Starts for Mudpuppy_41:
(Start: 32 @32165 has 45 MA's), (41, 32285), (42, 32294), (60, 32402), (62, 32411), (74, 32519), (78, 32549), (87, 32627), (110, 32792), (122, 32909), (125, 32957),

Gene: Mysterium_40 Start: 30210, Stop: 31028, Start Num: 26

Candidate Starts for Mysterium_40:
(12, 30126), (Start: 26 @30210 has 5 MA's), (Start: 33 @30228 has 13 MA's), (57, 30450), (68, 30531), (87, 30675), (89, 30693), (105, 30810), (107, 30822), (125, 31002), (126, 31014),

Gene: Niobe_42 Start: 32995, Stop: 33813, Start Num: 32
Candidate Starts for Niobe_42:
(Start: 24 @32983 has 1 MA's), (Start: 32 @32995 has 45 MA's), (42, 33124), (87, 33457), (92, 33502), (93, 33511), (112, 33646), (115, 33676), (125, 33787),

Gene: Nitro_43 Start: 32794, Stop: 33615, Start Num: 32
Candidate Starts for Nitro_43:
(Start: 32 @32794 has 45 MA's), (42, 32923), (51, 32986), (87, 33250), (95, 33316), (107, 33406), (108, 33418), (112, 33445), (122, 33541), (125, 33589),

Gene: ObiToo_50 Start: 33306, Stop: 34097, Start Num: 32
Candidate Starts for ObiToo_50:
(Start: 32 @33306 has 45 MA's), (71, 33624), (87, 33753), (118, 33990), (122, 34023), (125, 34071),

Gene: Origami_48 Start: 33091, Stop: 33906, Start Num: 31
Candidate Starts for Origami_48:
(Start: 31 @33091 has 6 MA's), (41, 33214), (56, 33313), (60, 33325), (76, 33442), (83, 33508), (87, 33553), (100, 33661), (125, 33880),

Gene: PandaPo_45 Start: 31171, Stop: 31980, Start Num: 32
Candidate Starts for PandaPo_45:
(Start: 32 @31171 has 45 MA's), (42, 31300), (51, 31363), (70, 31498), (82, 31591), (87, 31627), (108, 31783), (119, 31888), (125, 31954),

Gene: Phives_48 Start: 34043, Stop: 34849, Start Num: 32
Candidate Starts for Phives_48:
(Start: 32 @34043 has 45 MA's), (42, 34172), (62, 34295), (87, 34502), (102, 34613), (122, 34775), (125, 34823),

Gene: Pixelle_45 Start: 33205, Stop: 34023, Start Num: 32
Candidate Starts for Pixelle_45:
(12, 33112), (16, 33127), (17, 33130), (Start: 26 @33196 has 5 MA's), (Start: 32 @33205 has 45 MA's), (42, 33334), (63, 33466), (87, 33667), (112, 33856), (115, 33886), (125, 33997),

Gene: Powerpuff_47 Start: 33614, Stop: 34432, Start Num: 32
Candidate Starts for Powerpuff_47:
(Start: 32 @33614 has 45 MA's), (41, 33734), (42, 33743), (59, 33848), (60, 33851), (62, 33860), (74, 33968), (78, 33998), (87, 34076), (110, 34241), (122, 34358), (125, 34406),

Gene: Pumpkins_44 Start: 32640, Stop: 33479, Start Num: 32
Candidate Starts for Pumpkins_44:
(Start: 32 @32640 has 45 MA's), (42, 32769), (44, 32787), (51, 32832), (60, 32877), (87, 33099), (122, 33405), (125, 33453),

Gene: Reedo_44 Start: 30708, Stop: 31547, Start Num: 32
Candidate Starts for Reedo_44:
(Start: 32 @30708 has 45 MA's), (42, 30837), (44, 30855), (49, 30882), (78, 31092), (82, 31134), (87, 31170), (115, 31410), (125, 31521),

Gene: RockScotty_40 Start: 30226, Stop: 31026, Start Num: 33
Candidate Starts for RockScotty_40:
(12, 30124), (Start: 26 @30208 has 5 MA's), (Start: 33 @30226 has 13 MA's), (57, 30448), (68, 30529), (87, 30673), (89, 30691), (105, 30808), (107, 30820), (125, 31000), (126, 31012),

Gene: Sabourin_41 Start: 30309, Stop: 31109, Start Num: 33
Candidate Starts for Sabourin_41:
(Start: 26 @30291 has 5 MA's), (Start: 33 @30309 has 13 MA's), (57, 30531), (68, 30612), (87, 30756), (89, 30774), (105, 30891), (118, 31002), (123, 31050), (125, 31083), (126, 31095),

Gene: Samy_68 Start: 44824, Stop: 45594, Start Num: 35
Candidate Starts for Samy_68:
(Start: 35 @44824 has 1 MA's), (40, 44887), (43, 44902), (60, 44995), (66, 45052), (71, 45085), (84, 45190), (88, 45244), (92, 45277), (103, 45358), (111, 45409), (117, 45466), (128, 45583),

Gene: Schaffner_45 Start: 32695, Stop: 33489, Start Num: 32
Candidate Starts for Schaffner_45:
(Start: 32 @32695 has 45 MA's), (42, 32824), (71, 33013), (87, 33142), (99, 33235), (110, 33292), (122, 33409), (125, 33457),

Gene: ShakeItOph_49 Start: 33177, Stop: 33989, Start Num: 31
Candidate Starts for ShakeItOph_49:
(Start: 19 @33132 has 1 MA's), (Start: 26 @33168 has 5 MA's), (Start: 31 @33177 has 6 MA's), (41, 33300), (56, 33399), (76, 33528), (87, 33639), (121, 33909), (125, 33963),

Gene: Simpson_47 Start: 32526, Stop: 33338, Start Num: 32
Candidate Starts for Simpson_47:
(Start: 32 @32526 has 45 MA's), (36, 32601), (42, 32655), (52, 32730), (53, 32745), (58, 32769), (87, 32991), (89, 33009), (96, 33078), (110, 33147), (122, 33264), (125, 33312),

Gene: Skelbel_43 Start: 32995, Stop: 33813, Start Num: 32
Candidate Starts for Skelbel_43:
(Start: 24 @32983 has 1 MA's), (Start: 32 @32995 has 45 MA's), (42, 33124), (87, 33457), (92, 33502), (93, 33511), (112, 33646), (115, 33676), (125, 33787),

Gene: Snek_42 Start: 30604, Stop: 31398, Start Num: 32
Candidate Starts for Snek_42:
(7, 30475), (10, 30508), (11, 30511), (Start: 18 @30544 has 1 MA's), (23, 30595), (Start: 32 @30604 has 45 MA's), (42, 30733), (44, 30751), (87, 31039), (91, 31063), (101, 31156), (110, 31207), (115, 31258), (122, 31324), (125, 31372),

Gene: Soondubu_40 Start: 33487, Stop: 34296, Start Num: 30
Candidate Starts for Soondubu_40:
(Start: 30 @33487 has 5 MA's), (75, 33847), (80, 33889), (87, 33952), (89, 33970), (91, 33976), (113, 34138), (121, 34216), (125, 34270),

Gene: Sooty_41 Start: 30324, Stop: 31124, Start Num: 33
Candidate Starts for Sooty_41:
(Start: 26 @30306 has 5 MA's), (Start: 33 @30324 has 13 MA's), (57, 30546), (68, 30627), (87, 30771), (89, 30789), (105, 30906), (118, 31017), (123, 31065), (125, 31098), (126, 31110),

Gene: SpecialK_41 Start: 30306, Stop: 31106, Start Num: 33
Candidate Starts for SpecialK_41:

(12, 30204), (Start: 26 @30288 has 5 MA's), (Start: 33 @30306 has 13 MA's), (57, 30528), (68, 30609), (87, 30753), (89, 30771), (105, 30888), (107, 30900), (118, 30999), (125, 31080), (126, 31092),

Gene: Stuu_41 Start: 30418, Stop: 31218, Start Num: 33
Candidate Starts for Stuu_41:
(12, 30316), (Start: 26 @30400 has 5 MA's), (Start: 33 @30418 has 13 MA's), (57, 30640), (68, 30721), (87, 30865), (89, 30883), (105, 31000), (107, 31012), (118, 31111), (125, 31192), (126, 31204),

Gene: Subaru_42 Start: 32979, Stop: 33809, Start Num: 24
Candidate Starts for Subaru_42:
(Start: 24 @32979 has 1 MA's), (Start: 32 @32991 has 45 MA's), (42, 33120), (87, 33453), (92, 33498), (93, 33507), (112, 33642), (115, 33672), (125, 33783),

Gene: Sue2_45 Start: 32968, Stop: 33750, Start Num: 33
Candidate Starts for Sue2_45:
(Start: 33 @32968 has 13 MA's), (69, 33265), (73, 33292), (87, 33406), (110, 33562), (114, 33604), (115, 33613), (125, 33724),

Gene: Tallboi_44 Start: 33369, Stop: 34190, Start Num: 32
Candidate Starts for Tallboi_44:
(Start: 32 @33369 has 45 MA's), (42, 33498), (51, 33561), (82, 33789), (87, 33825), (112, 34020), (118, 34083), (122, 34116), (125, 34164),

Gene: Tbone_44 Start: 32394, Stop: 33212, Start Num: 32
Candidate Starts for Tbone_44:
(Start: 32 @32394 has 45 MA's), (41, 32514), (42, 32523), (59, 32628), (60, 32631), (62, 32640), (74, 32748), (78, 32778), (87, 32856), (110, 33021), (122, 33138), (125, 33186),

Gene: TforTroy_46 Start: 32506, Stop: 33342, Start Num: 32
Candidate Starts for TforTroy_46:
(Start: 32 @32506 has 45 MA's), (42, 32635), (44, 32653), (59, 32740), (60, 32743), (87, 32965), (94, 33028), (108, 33145), (114, 33193), (122, 33268), (125, 33316),

Gene: ThursdayNight_48 Start: 32985, Stop: 33788, Start Num: 30
Candidate Starts for ThursdayNight_48:
(6, 32850), (Start: 30 @32985 has 5 MA's), (41, 33108), (74, 33333), (77, 33345), (82, 33402), (87, 33438), (94, 33501), (125, 33762), (126, 33774),

Gene: Tian_43 Start: 33180, Stop: 33998, Start Num: 32
Candidate Starts for Tian_43:
(12, 33087), (16, 33102), (17, 33105), (Start: 26 @33171 has 5 MA's), (Start: 32 @33180 has 45 MA's), (42, 33309), (63, 33441), (87, 33642), (112, 33831), (115, 33861), (125, 33972),

Gene: Tuck_48 Start: 34596, Stop: 35402, Start Num: 32
Candidate Starts for Tuck_48:
(Start: 32 @34596 has 45 MA's), (42, 34725), (62, 34848), (87, 35055), (102, 35166), (122, 35328), (125, 35376),

Gene: Turab_41 Start: 31623, Stop: 32456, Start Num: 25
Candidate Starts for Turab_41:
(Start: 25 @31623 has 2 MA's), (Start: 32 @31635 has 45 MA's), (42, 31764), (47, 31797), (51, 31827), (82, 32055), (87, 32091), (108, 32259), (122, 32382), (125, 32430),

Gene: Tutumahutu_46 Start: 32497, Stop: 33315, Start Num: 32
Candidate Starts for Tutumahutu_46:
(Start: 32 @32497 has 45 MA's), (41, 32617), (42, 32626), (59, 32731), (60, 32734), (62, 32743), (74, 32851), (78, 32881), (87, 32959), (110, 33124), (122, 33241), (125, 33289),

Gene: Tweety19_43 Start: 30544, Stop: 31398, Start Num: 18
Candidate Starts for Tweety19_43:
(7, 30475), (10, 30508), (11, 30511), (Start: 18 @30544 has 1 MA's), (23, 30595), (Start: 32 @30604 has 45 MA's), (42, 30733), (44, 30751), (87, 31039), (91, 31063), (101, 31156), (110, 31207), (115, 31258), (122, 31324), (125, 31372),

Gene: VResidence_44 Start: 31752, Stop: 32570, Start Num: 32
Candidate Starts for VResidence_44:
(Start: 32 @31752 has 45 MA's), (42, 31881), (60, 31989), (62, 31998), (78, 32136), (87, 32214), (110, 32379), (113, 32409), (122, 32496), (125, 32544),

Gene: VroomVroom_47 Start: 33099, Stop: 33911, Start Num: 31
Candidate Starts for VroomVroom_47:
(Start: 31 @33099 has 6 MA's), (37, 33183), (41, 33222), (56, 33321), (60, 33333), (67, 33393), (76, 33450), (85, 33525), (87, 33561), (125, 33885),

Gene: Warda_45 Start: 32571, Stop: 33389, Start Num: 32
Candidate Starts for Warda_45:
(Start: 32 @32571 has 45 MA's), (41, 32691), (42, 32700), (59, 32805), (60, 32808), (62, 32817), (74, 32925), (78, 32955), (87, 33033), (110, 33198), (122, 33315), (125, 33363),

Gene: Wildwest_43 Start: 31833, Stop: 32639, Start Num: 32
Candidate Starts for Wildwest_43:
(2, 31668), (4, 31683), (5, 31689), (Start: 32 @31833 has 45 MA's), (41, 31953), (42, 31962), (58, 32070), (62, 32085), (85, 32268), (87, 32292), (102, 32403), (122, 32565), (125, 32613),

Gene: Yang_44 Start: 31815, Stop: 32630, Start Num: 32
Candidate Starts for Yang_44:
(Start: 32 @31815 has 45 MA's), (40, 31932), (42, 31944), (58, 32052), (62, 32067), (87, 32274), (110, 32433), (112, 32454), (122, 32550), (125, 32598),

Gene: YesChef_45 Start: 32473, Stop: 33291, Start Num: 32
Candidate Starts for YesChef_45:
(Start: 32 @32473 has 45 MA's), (41, 32593), (42, 32602), (59, 32707), (60, 32710), (62, 32719), (74, 32827), (78, 32857), (87, 32935), (110, 33100), (122, 33217), (125, 33265),