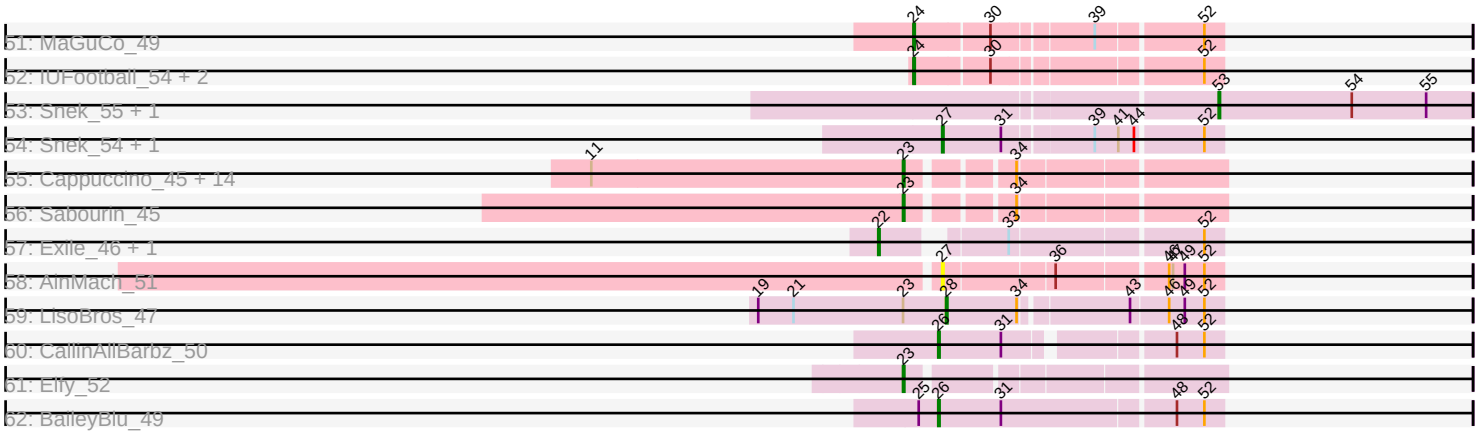
Pham 347399


1: Flutur_51 + 5
2: ThursdayNight_55
3: Michkear_56
4: AEgle_48 + 2
5: AEgle_49 + 1
6: JuneStar_54 + 2
7: Warda_52 + 1
8: Amploria_51
9: Jstan_53 + 3
10: Tallboi_51 + 1
11: Tian_52 + 1
12: Tian_53 + 2
13: Reedo_52
14: Adolin_55 + 1
15: Reedo_51
16: Elezi_50 + 7
17: Mudpuppy_48 + 4
18: Yang_51
19: Niobe_51 + 3
20: DrSierra_50
21: JuneStar_53
22: Ascela_55 + 1
23: Janeemi_54
24: Ascela_53 + 1
25: Schatner_51
26: Phives_56
27: Cassia_50
28: Cassia_51
29: Tallboi_52
30: Lego_51 + 1
31: Adolin_56 + 1
32: Amploria_52 + 1
33: Crewmate_57 + 1
34: PandaPo_54 + 1
35: PandaPo_55 + 1
36: JohnDoe_52
37: Pumpkins_51
38: KeAlli_49
39: KeAlli_51
40: IttyBittyPiggy_52
41: IttyBittyPiggy_53
42: VResidence_52
43: Wildwest_51
44: Pumpkins_50
45: Nitro_53
46: Pixelle_54
47: Nitro_55
48: Bue2_52
49: Tutumahutu_53
50: Bernie_53

Pham 347399


51: MaGuCo_49
52: IUFootball_54 + 2
53: Snek_55 + 1
54: Snek_54 + 1
55: Cappuccino_45 + 14
56: Sabourin_45
57: Exile_46 + 1
58: AlmMach_51
59: LisoBros_47
60: CallinAllBarbz_50
61: Elly_52
62: BaileyBlu_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 347399 Report

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

Pham number 347399 has 122 members, 17 are drafts.

Phages represented in each track:
• Track 1 : Flutur_51, Powerpuff_54, AGrandiflora_54, Joemato_52, YesChef_52, Simpson_54
• Track 2 : ThursdayNight_55
• Track 3 : Michkear_56
• Track 4 : AEgle_48, Turab_48, Adumb2043_49
• Track 5 : AEgle_49, Turab_49
• Track 6 : JuneStar_54, TforTroy_53, Yang_52
• Track 7 : Warda_52, Tbone_52
• Track 8 : Amploria_51
• Track 9 : Jstan_53, Subaru_51, Elezi_51, Eraser_51
• Track 10 : Tallboi_51, TforTroy_52
• Track 11 : Tian_52, Amyev_53
• Track 12 : Tian_53, Amyev_54, Pixelle_55
• Track 13 : Reedo_52
• Track 14 : Adolin_55, DrManhattan_54
• Track 15 : Reedo_51
• Track 16 : Elezi_50, Niobe_50, Skelbel_51, Asa16_50, Subaru_50, Jstan_52, Eraser_50, London_50
• Track 17 : Mudpuppy_48, Community_55, Cyan_52, Tuck_55, Lizalica_51
• Track 18 : Yang_51
• Track 19 : Niobe_51, Skelbel_52, Asa16_51, London_51
• Track 20 : DrSierra_50
• Track 21 : JuneStar_53
• Track 22 : Ascela_55, Iter_55
• Track 23 : Janeemi_54
• Track 24 : Ascela_53, Iter_53
• Track 25 : Schaffner_51
• Track 26 : Phives_56
• Track 27 : Cassia_50
• Track 28 : Cassia_51
• Track 29 : Tallboi_52
• Track 30 : Lego_51, Kaylissa_53
• Track 31 : Adolin_56, DrManhattan_55
• Track 32 : Amploria_52, Adumb2043_50
• Track 33 : Crewmate_57, ObiToo_56
• Track 34 : PandaPo_54, MissSwiss_54
• Track 35 : PandaPo_55, MissSwiss_55

• Track 36 : JohnDoe_52
• Track 37 : Pumpkins_51
• Track 38 : KeAlii_49
• Track 39 : KeAlii_51
• Track 40 : IttyBittyPiggy_52
• Track 41 : IttyBittyPiggy_53
• Track 42 : VResidence_52
• Track 43 : Wildwest_51
• Track 44 : Pumpkins_50
• Track 45 : Nitro_53
• Track 46 : Pixelle_54
• Track 47 : Nitro_55
• Track 48 : Sue2_52
• Track 49 : Tutumahutu_53
• Track 50 : Berrie_53
• Track 51 : MaGuCo_49
• Track 52 : IUFootball_54, Liebe_53, Maureen_53
• Track 53 : Snek_55, Tweety19_56
• Track 54 : Snek_54, Tweety19_55
• Track 55 : Cappuccino_45, Kalimba_45, Giorgio_44, Gambol_46, Moss_45, Gumpizza_44, Sooty_45, Ashes_45, SpecialK_45, Halsey_45, Donkey_45, RockScotty_44, Mysterium_44, Beaupre_44, Stuu_45
• Track 56 : Sabourin_45
• Track 57 : Exile_46, Soondubu_48
• Track 58 : AinMach_51
• Track 59 : LisoBros_47
• Track 60 : CallinAllBarbz_50
• Track 61 : Elfy_52
• Track 62 : BaileyBlu_49

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

The start number called the most often in the published annotations is 23, it was called in 64 of the 105 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_48, AGrandiflora_54, Adumb2043_49, Amploria_51, Amyev_53, Asa16_50, Ascela_53, Ashes_45, Beaupre_44, Berrie_53, Cappuccino_45, Cassia_50, Community_55, Crewmate_57, Cyan_52, Donkey_45, DrSierra_50, Elezi_50, Elfy_52, Eraser_50, Flutur_51, Gambol_46, Giorgio_44, Gumpizza_44, Halsey_45, Iter_53, IttyBittyPiggy_52, Janeemi_54, Joemato_52, JohnDoe_52, Jstan_52, JuneStar_53, Kalimba_45, Kaylissa_53, KeAlii_49, Lego_51, Lizalica_51, London_50, Michkear_56, MissSwiss_54, Moss_45, Mudpuppy_48, Mysterium_44, Niobe_50, Nitro_53, ObiToo_56, PandaPo_54, Phives_56, Pixelle_54, Powerpuff_54, Pumpkins_50, RockScotty_44, Sabourin_45, Schaffner_51, Simpson_54, Skelbel_51, Sooty_45, SpecialK_45, Stuu_45, Subaru_50, Sue2_52, Tallboi_51, Tbone_52, TforTroy_52, ThursdayNight_55, Tian_52, Tuck_55, Turab_48, Tutumahutu_53, VResidence_52, Warda_52, Wildwest_51, Yang_51, YesChef_52,

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

• Adolin_55, DrManhattan_54, LisoBros_47, Reedo_51,

Genes that do not have the "Most Annotated" start:
• AEgle_49, Adolin_56, Adumb2043_50, AinMach_51, Amploria_52, Amyev_54, Asa16_51, Ascela_55, BaileyBlu_49, CallinAllBarbz_50, Cassia_51, DrManhattan_55, Elezi_51, Eraser_51, Exile_46, IUFootball_54, Iter_55, IttyBittyPiggy_53, Jstan_53, JuneStar_54, KeAlii_51, Liebe_53, London_51, MaGuCo_49, Maureen_53, MissSwiss_55, Niobe_51, Nitro_55, PandaPo_55, Pixelle_55, Pumpkins_51, Reedo_52, Skelbel_52, Snek_54, Snek_55, Soondubu_48, Subaru_51, Tallboi_52, TforTroy_53, Tian_53, Turab_49, Tweety19_55, Tweety19_56, Yang_52,

Summary by start number:

Start 12:
• Found in 1 of 122 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Reedo_51 (AZ1),

Start 15:
• Found in 2 of 122 (1.6%) of genes in pham
• Manual Annotations of this start: 2 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Adolin_55 (AZ1), DrManhattan_54 (AZ1),

Start 22:
• Found in 2 of 122 (1.6%) of genes in pham
• Manual Annotations of this start: 1 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Exile_46 (AZ6), Soondubu_48 (AZ6),

Start 23:
• Found in 78 of 122 (63.9%) of genes in pham
• Manual Annotations of this start: 64 of 105
• Called 94.9% of time when present
• Phage (with cluster) where this start called: AEgle_48 (AZ1), AGrandiflora_54 (AZ1), Adumb2043_49 (AZ1), Amploria_51 (AZ1), Amyev_53 (AZ1), Asa16_50 (AZ1), Ascela_53 (AZ1), Ashes_45 (AZ5), Beaupre_44 (AZ5), Berrie_53 (AZ1), Cappuccino_45 (AZ5), Cassia_50 (AZ1), Community_55 (AZ1), Crewmate_57 (AZ1), Cyan_52 (AZ1), Donkey_45 (AZ5), DrSierra_50 (AZ1), Elezi_50 (AZ1), Elfy_52 (FP), Eraser_50 (AZ1), Flutur_51 (AZ), Gambol_46 (AZ5), Giorgio_44 (AZ5), Gumpizza_44 (AZ5), Halsey_45 (AZ5), Iter_53 (AZ1), IttyBittyPiggy_52 (AZ1), Janeemi_54 (AZ1), Joemato_52 (AZ1), JohnDoe_52 (AZ1), Jstan_52 (AZ1), JuneStar_53 (AZ1), Kalimba_45 (AZ5), Kaylissa_53 (AZ1), KeAlii_49 (AZ1), Lego_51 (AZ1), Lizalica_51 (AZ1), London_50 (AZ1), Michkear_56 (AZ), MissSwiss_54 (AZ1), Moss_45 (AZ5), Mudpuppy_48 (AZ1), Mysterium_44 (AZ5), Niobe_50 (AZ1), Nitro_53 (AZ1), ObiToo_56 (AZ1), PandaPo_54 (AZ1), Phives_56 (AZ1), Pixelle_54 (AZ1), Powerpuff_54 (AZ1), Pumpkins_50 (AZ1), RockScotty_44 (AZ5), Sabourin_45 (AZ5), Schaffner_51 (AZ1), Simpson_54 (AZ1), Skelbel_51 (AZ1), Sooty_45 (AZ5), SpecialK_45 (AZ5), Stuu_45 (AZ5), Subaru_50 (AZ1), Sue2_52 (AZ1), Tallboi_51 (AZ1), Tbone_52 (AZ1), TforTroy_52 (AZ1), ThursdayNight_55 (AZ), Tian_52 (AZ1),

Tuck_55 (AZ1), Turab_48 (AZ1), Tutumahutu_53 (AZ1), VResidence_52 (AZ1), Warda_52 (AZ1), Wildwest_51 (AZ1), Yang_51 (AZ1), YesChef_52 (AZ1),

Start 24:
• Found in 6 of 122 (4.9%) of genes in pham
• Manual Annotations of this start: 6 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IUFootball_54 (AZ2), KeAlii_51 (AZ1), Liebe_53 (AZ2), MaGuCo_49 (AZ2), Maureen_53 (AZ2), Nitro_55 (AZ1),

Start 26:
• Found in 30 of 122 (24.6%) of genes in pham
• Manual Annotations of this start: 25 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_49 (AZ1), Adolin_56 (AZ1), Adumb2043_50 (AZ1), Amploria_52 (AZ1), Amyev_54 (AZ1), Asa16_51 (AZ1), Ascela_55 (AZ1), BaileyBlu_49 (FP), CallinAllBarbz_50 (FP), Cassia_51 (AZ1), DrManhattan_55 (AZ1), Elezi_51 (AZ1), Eraser_51 (AZ1), Iter_55 (AZ1), Jstan_53 (AZ1), JuneStar_54 (AZ1), London_51 (AZ1), MissSwiss_55 (AZ1), Niobe_51 (AZ1), PandaPo_55 (AZ1), Pixelle_55 (AZ1), Pumpkins_51 (AZ1), Reedo_52 (AZ1), Skelbel_52 (AZ1), Subaru_51 (AZ1), Tallboi_52 (AZ1), TforTroy_53 (AZ1), Tian_53 (AZ1), Turab_49 (AZ1), Yang_52 (AZ1),

Start 27:
• Found in 3 of 122 (2.5%) of genes in pham
• Manual Annotations of this start: 2 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AinMach_51 (AZ7), Snek_54 (AZ3), Tweety19_55 (AZ3),

Start 28:
• Found in 1 of 122 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: LisoBros_47 (FP),

Start 53:
• Found in 3 of 122 (2.5%) of genes in pham
• Manual Annotations of this start: 3 of 105
• Called 100.0% of time when present
• Phage (with cluster) where this start called: IttyBittyPiggy_53 (AZ1), Snek_55 (AZ3), Tweety19_56 (AZ3),

Summary by clusters:

There are 8 clusters represented in this pham: FP, AZ, AZ1, AZ2, AZ3, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AZ:
•Start number 23 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 12 was manually annotated 1 time for cluster AZ1.

•Start number 15 was manually annotated 2 times for cluster AZ1.
•Start number 23 was manually annotated 46 times for cluster AZ1.
•Start number 24 was manually annotated 2 times for cluster AZ1.
•Start number 26 was manually annotated 23 times for cluster AZ1.
•Start number 53 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 24 was manually annotated 4 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 27 was manually annotated 2 times for cluster AZ3.
•Start number 53 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ5:
•Start number 23 was manually annotated 16 times for cluster AZ5.

Info for manual annotations of cluster AZ6:
•Start number 22 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster FP:
•Start number 23 was manually annotated 1 time for cluster FP.
•Start number 26 was manually annotated 2 times for cluster FP.
•Start number 28 was manually annotated 1 time for cluster FP.

Gene Information:

Gene: AEgle_48 Start: 36313, Stop: 36537, Start Num: 23
Candidate Starts for AEgle_48:
(Start: 23 @36313 has 64 MA's), (52, 36523),

Gene: AEgle_49 Start: 36534, Stop: 36725, Start Num: 26
Candidate Starts for AEgle_49:
(Start: 26 @36534 has 25 MA's), (52, 36711),

Gene: AGrandiflora_54 Start: 37650, Stop: 37871, Start Num: 23
Candidate Starts for AGrandiflora_54:
(Start: 23 @37650 has 64 MA's), (37, 37764), (52, 37857),

Gene: Adolin_55 Start: 36749, Stop: 36955, Start Num: 15
Candidate Starts for Adolin_55:
(Start: 15 @36749 has 2 MA's), (16, 36755), (18, 36839), (Start: 23 @36941 has 64 MA's),

Gene: Adolin_56 Start: 36952, Stop: 37143, Start Num: 26
Candidate Starts for Adolin_56:
(13, 36739), (14, 36742), (Start: 26 @36952 has 25 MA's), (35, 37027), (50, 37120), (52, 37129),

Gene: Adumb2043_50 Start: 36555, Stop: 36746, Start Num: 26
Candidate Starts for Adumb2043_50:
(Start: 26 @36555 has 25 MA's), (35, 36630), (52, 36732),

Gene: Adumb2043_49 Start: 36334, Stop: 36558, Start Num: 23
Candidate Starts for Adumb2043_49:
(Start: 23 @36334 has 64 MA's), (52, 36544),

Gene: AinMach_51 Start: 36840, Stop: 37037, Start Num: 27
Candidate Starts for AinMach_51:
(Start: 27 @36840 has 2 MA's), (36, 36918), (46, 36996), (47, 36999), (49, 37008), (52, 37023),

Gene: Amploria_51 Start: 36517, Stop: 36741, Start Num: 23
Candidate Starts for Amploria_51:
(9, 36217), (Start: 23 @36517 has 64 MA's), (52, 36727),

Gene: Amploria_52 Start: 36738, Stop: 36929, Start Num: 26
Candidate Starts for Amploria_52:
(Start: 26 @36738 has 25 MA's), (35, 36813), (52, 36915),

Gene: Amyev_54 Start: 39992, Stop: 40183, Start Num: 26
Candidate Starts for Amyev_54:
(Start: 26 @39992 has 25 MA's), (52, 40169),

Gene: Amyev_53 Start: 39795, Stop: 39995, Start Num: 23
Candidate Starts for Amyev_53:
(Start: 23 @39795 has 64 MA's), (52, 39981),

Gene: Asa16_51 Start: 38109, Stop: 38300, Start Num: 26
Candidate Starts for Asa16_51:
(Start: 26 @38109 has 25 MA's), (35, 38184), (40, 38223), (52, 38286),

Gene: Asa16_50 Start: 37882, Stop: 38112, Start Num: 23
Candidate Starts for Asa16_50:
(Start: 23 @37882 has 64 MA's), (37, 37999), (52, 38098),

Gene: Ascela_55 Start: 38387, Stop: 38578, Start Num: 26
Candidate Starts for Ascela_55:
(Start: 26 @38387 has 25 MA's), (52, 38564),

Gene: Ascela_53 Start: 37957, Stop: 38187, Start Num: 23
Candidate Starts for Ascela_53:
(Start: 23 @37957 has 64 MA's), (37, 38074), (52, 38173),

Gene: Ashes_45 Start: 33455, Stop: 33667, Start Num: 23
Candidate Starts for Ashes_45:
(11, 33218), (Start: 23 @33455 has 64 MA's), (34, 33521),

Gene: BaileyBlu_49 Start: 35978, Stop: 36187, Start Num: 26
Candidate Starts for BaileyBlu_49:
(25, 35963), (Start: 26 @35978 has 25 MA's), (31, 36026), (48, 36152), (52, 36173),

Gene: Beaupre_44 Start: 33265, Stop: 33477, Start Num: 23
Candidate Starts for Beaupre_44:
(11, 33028), (Start: 23 @33265 has 64 MA's), (34, 33331),

Gene: Berrie_53 Start: 38048, Stop: 38266, Start Num: 23

Candidate Starts for Berrie_53:
(Start: 23 @38048 has 64 MA's), (31, 38114), (37, 38156), (52, 38252),

Gene: CallinAllBarbz_50 Start: 36450, Stop: 36644, Start Num: 26
Candidate Starts for CallinAllBarbz_50:
(Start: 26 @36450 has 25 MA's), (31, 36498), (48, 36609), (52, 36630),

Gene: Cappuccino_45 Start: 33320, Stop: 33532, Start Num: 23
Candidate Starts for Cappuccino_45:
(11, 33083), (Start: 23 @33320 has 64 MA's), (34, 33386),

Gene: Cassia_50 Start: 37073, Stop: 37303, Start Num: 23
Candidate Starts for Cassia_50:
(Start: 23 @37073 has 64 MA's), (37, 37190), (44, 37238), (52, 37289),

Gene: Cassia_51 Start: 37300, Stop: 37491, Start Num: 26
Candidate Starts for Cassia_51:
(Start: 26 @37300 has 25 MA's), (29, 37321), (52, 37477),

Gene: Community_55 Start: 39440, Stop: 39658, Start Num: 23
Candidate Starts for Community_55:
(Start: 23 @39440 has 64 MA's), (37, 39548), (52, 39644),

Gene: Crewmate_57 Start: 38837, Stop: 39067, Start Num: 23
Candidate Starts for Crewmate_57:
(6, 38405), (Start: 23 @38837 has 64 MA's), (37, 38954), (44, 39002), (52, 39053),

Gene: Cyan_52 Start: 37207, Stop: 37428, Start Num: 23
Candidate Starts for Cyan_52:
(Start: 23 @37207 has 64 MA's), (37, 37321), (52, 37414),

Gene: Donkey_45 Start: 33310, Stop: 33522, Start Num: 23
Candidate Starts for Donkey_45:
(11, 33073), (Start: 23 @33310 has 64 MA's), (34, 33376),

Gene: DrManhattan_55 Start: 36520, Stop: 36711, Start Num: 26
Candidate Starts for DrManhattan_55:
(13, 36307), (14, 36310), (Start: 26 @36520 has 25 MA's), (35, 36595), (50, 36688), (52, 36697),

Gene: DrManhattan_54 Start: 36317, Stop: 36523, Start Num: 15
Candidate Starts for DrManhattan_54:
(Start: 15 @36317 has 2 MA's), (16, 36323), (18, 36407), (Start: 23 @36509 has 64 MA's),

Gene: DrSierra_50 Start: 36034, Stop: 36258, Start Num: 23
Candidate Starts for DrSierra_50:
(10, 35728), (Start: 23 @36034 has 64 MA's), (52, 36244),

Gene: Elezi_50 Start: 37880, Stop: 38110, Start Num: 23
Candidate Starts for Elezi_50:
(Start: 23 @37880 has 64 MA's), (37, 37997), (52, 38096),

Gene: Elezi_51 Start: 38107, Stop: 38298, Start Num: 26
Candidate Starts for Elezi_51:

(Start: 26 @38107 has 25 MA's), (35, 38182), (52, 38284),

Gene: Elfy_52 Start: 35591, Stop: 35809, Start Num: 23
Candidate Starts for Elfy_52:
(Start: 23 @35591 has 64 MA's),

Gene: Eraser_51 Start: 38116, Stop: 38307, Start Num: 26
Candidate Starts for Eraser_51:
(Start: 26 @38116 has 25 MA's), (35, 38191), (52, 38293),

Gene: Eraser_50 Start: 37889, Stop: 38119, Start Num: 23
Candidate Starts for Eraser_50:
(Start: 23 @37889 has 64 MA's), (37, 38006), (52, 38105),

Gene: Exile_46 Start: 39253, Stop: 39480, Start Num: 22
Candidate Starts for Exile_46:
(Start: 22 @39253 has 1 MA's), (33, 39328), (52, 39466),

Gene: Flutur_51 Start: 37516, Stop: 37737, Start Num: 23
Candidate Starts for Flutur_51:
(Start: 23 @37516 has 64 MA's), (37, 37630), (52, 37723),

Gene: Gambol_46 Start: 33329, Stop: 33541, Start Num: 23
Candidate Starts for Gambol_46:
(11, 33092), (Start: 23 @33329 has 64 MA's), (34, 33395),

Gene: Giorgio_44 Start: 33248, Stop: 33460, Start Num: 23
Candidate Starts for Giorgio_44:
(11, 33011), (Start: 23 @33248 has 64 MA's), (34, 33314),

Gene: Gumpizza_44 Start: 33204, Stop: 33416, Start Num: 23
Candidate Starts for Gumpizza_44:
(11, 32967), (Start: 23 @33204 has 64 MA's), (34, 33270),

Gene: Halsey_45 Start: 33457, Stop: 33669, Start Num: 23
Candidate Starts for Halsey_45:
(11, 33220), (Start: 23 @33457 has 64 MA's), (34, 33523),

Gene: IUFootball_54 Start: 39401, Stop: 39613, Start Num: 24
Candidate Starts for IUFootball_54:
(Start: 24 @39401 has 6 MA's), (30, 39455), (52, 39599),

Gene: Iter_53 Start: 37949, Stop: 38179, Start Num: 23
Candidate Starts for Iter_53:
(Start: 23 @37949 has 64 MA's), (37, 38066), (52, 38165),

Gene: Iter_55 Start: 38379, Stop: 38570, Start Num: 26
Candidate Starts for Iter_55:
(Start: 26 @38379 has 25 MA's), (52, 38556),

Gene: IttyBittyPiggy_52 Start: 36661, Stop: 36891, Start Num: 23
Candidate Starts for IttyBittyPiggy_52:
(Start: 23 @36661 has 64 MA's), (44, 36826), (52, 36877),

Gene: IttyBittyPiggy_53 Start: 36888, Stop: 37079, Start Num: 53
Candidate Starts for IttyBittyPiggy_53:
(20, 36570), (Start: 53 @36888 has 3 MA's), (56, 37065),

Gene: Janeemi_54 Start: 38904, Stop: 39122, Start Num: 23
Candidate Starts for Janeemi_54:
(Start: 23 @38904 has 64 MA's), (37, 39012), (52, 39108),

Gene: Joemato_52 Start: 37287, Stop: 37508, Start Num: 23
Candidate Starts for Joemato_52:
(Start: 23 @37287 has 64 MA's), (37, 37401), (52, 37494),

Gene: JohnDoe_52 Start: 37271, Stop: 37492, Start Num: 23
Candidate Starts for JohnDoe_52:
(Start: 23 @37271 has 64 MA's), (37, 37385), (52, 37478),

Gene: Jstan_53 Start: 38111, Stop: 38302, Start Num: 26
Candidate Starts for Jstan_53:
(Start: 26 @38111 has 25 MA's), (35, 38186), (52, 38288),

Gene: Jstan_52 Start: 37884, Stop: 38114, Start Num: 23
Candidate Starts for Jstan_52:
(Start: 23 @37884 has 64 MA's), (37, 38001), (52, 38100),

Gene: JuneStar_54 Start: 40230, Stop: 40421, Start Num: 26
Candidate Starts for JuneStar_54:
(Start: 26 @40230 has 25 MA's), (52, 40407),

Gene: JuneStar_53 Start: 40003, Stop: 40233, Start Num: 23
Candidate Starts for JuneStar_53:
(Start: 23 @40003 has 64 MA's), (52, 40219),

Gene: Kalimba_45 Start: 33307, Stop: 33519, Start Num: 23
Candidate Starts for Kalimba_45:
(11, 33070), (Start: 23 @33307 has 64 MA's), (34, 33373),

Gene: Kaylissa_53 Start: 37666, Stop: 37887, Start Num: 23
Candidate Starts for Kaylissa_53:
(Start: 23 @37666 has 64 MA's), (37, 37780), (52, 37873),

Gene: KeAlii_49 Start: 36858, Stop: 37082, Start Num: 23
Candidate Starts for KeAlii_49:
(Start: 23 @36858 has 64 MA's), (31, 36930), (52, 37068),

Gene: KeAlii_51 Start: 37294, Stop: 37488, Start Num: 24
Candidate Starts for KeAlii_51:
(Start: 24 @37294 has 6 MA's), (35, 37369),

Gene: Lego_51 Start: 36986, Stop: 37207, Start Num: 23
Candidate Starts for Lego_51:
(Start: 23 @36986 has 64 MA's), (37, 37100), (52, 37193),

Gene: Liebe_53 Start: 39401, Stop: 39613, Start Num: 24
Candidate Starts for Liebe_53:
(Start: 24 @39401 has 6 MA's), (30, 39455), (52, 39599),

Gene: LisoBros_47 Start: 38381, Stop: 38578, Start Num: 28
Candidate Starts for LisoBros_47:
(19, 38237), (21, 38264), (Start: 23 @38348 has 64 MA's), (Start: 28 @38381 has 1 MA's), (34, 38435), (43, 38510), (46, 38537), (49, 38549), (52, 38564),

Gene: Lizalica_51 Start: 36731, Stop: 36952, Start Num: 23
Candidate Starts for Lizalica_51:
(Start: 23 @36731 has 64 MA's), (37, 36845), (52, 36938),

Gene: London_50 Start: 37880, Stop: 38110, Start Num: 23
Candidate Starts for London_50:
(Start: 23 @37880 has 64 MA's), (37, 37997), (52, 38096),

Gene: London_51 Start: 38107, Stop: 38298, Start Num: 26
Candidate Starts for London_51:
(Start: 26 @38107 has 25 MA's), (35, 38182), (40, 38221), (52, 38284),

Gene: MaGuCo_49 Start: 38092, Stop: 38304, Start Num: 24
Candidate Starts for MaGuCo_49:
(Start: 24 @38092 has 6 MA's), (30, 38146), (39, 38215), (52, 38290),

Gene: Maureen_53 Start: 39400, Stop: 39612, Start Num: 24
Candidate Starts for Maureen_53:
(Start: 24 @39400 has 6 MA's), (30, 39454), (52, 39598),

Gene: Michkear_56 Start: 41285, Stop: 41482, Start Num: 23
Candidate Starts for Michkear_56:
(Start: 23 @41285 has 64 MA's), (33, 41333), (41, 41408), (47, 41444), (52, 41468),

Gene: MissSwiss_54 Start: 36480, Stop: 36698, Start Num: 23
Candidate Starts for MissSwiss_54:
(Start: 23 @36480 has 64 MA's), (37, 36588), (52, 36684),

Gene: MissSwiss_55 Start: 36695, Stop: 36886, Start Num: 26
Candidate Starts for MissSwiss_55:
(Start: 26 @36695 has 25 MA's), (35, 36770), (45, 36842), (52, 36872),

Gene: Moss_45 Start: 33397, Stop: 33609, Start Num: 23
Candidate Starts for Moss_45:
(11, 33160), (Start: 23 @33397 has 64 MA's), (34, 33463),

Gene: Mudpuppy_48 Start: 36915, Stop: 37136, Start Num: 23
Candidate Starts for Mudpuppy_48:
(Start: 23 @36915 has 64 MA's), (37, 37029), (52, 37122),

Gene: Mysterium_44 Start: 33230, Stop: 33442, Start Num: 23
Candidate Starts for Mysterium_44:
(11, 32993), (Start: 23 @33230 has 64 MA's), (34, 33296),

Gene: Niobe_50 Start: 37883, Stop: 38113, Start Num: 23
Candidate Starts for Niobe_50:
(Start: 23 @37883 has 64 MA's), (37, 38000), (52, 38099),

Gene: Niobe_51 Start: 38110, Stop: 38301, Start Num: 26
Candidate Starts for Niobe_51:
(Start: 26 @38110 has 25 MA's), (35, 38185), (40, 38224), (52, 38287),

Gene: Nitro_53 Start: 38988, Stop: 39218, Start Num: 23
Candidate Starts for Nitro_53:
(9, 38691), (Start: 23 @38988 has 64 MA's), (37, 39105), (52, 39204),

Gene: Nitro_55 Start: 39409, Stop: 39600, Start Num: 24
Candidate Starts for Nitro_55:
(Start: 24 @39409 has 6 MA's), (35, 39484), (40, 39523), (52, 39586),

Gene: ObiToo_56 Start: 38231, Stop: 38461, Start Num: 23
Candidate Starts for ObiToo_56:
(6, 37799), (Start: 23 @38231 has 64 MA's), (37, 38348), (44, 38396), (52, 38447),

Gene: PandaPo_54 Start: 36488, Stop: 36706, Start Num: 23
Candidate Starts for PandaPo_54:
(Start: 23 @36488 has 64 MA's), (37, 36596), (52, 36692),

Gene: PandaPo_55 Start: 36703, Stop: 36894, Start Num: 26
Candidate Starts for PandaPo_55:
(Start: 26 @36703 has 25 MA's), (35, 36778), (45, 36850), (52, 36880),

Gene: Phives_56 Start: 39558, Stop: 39776, Start Num: 23
Candidate Starts for Phives_56:
(3, 38994), (6, 39162), (Start: 23 @39558 has 64 MA's), (37, 39666), (52, 39762),

Gene: Pixelle_54 Start: 40140, Stop: 40340, Start Num: 23
Candidate Starts for Pixelle_54:
(Start: 23 @40140 has 64 MA's), (52, 40326),

Gene: Pixelle_55 Start: 40337, Stop: 40528, Start Num: 26
Candidate Starts for Pixelle_55:
(Start: 26 @40337 has 25 MA's), (52, 40514),

Gene: Powerpuff_54 Start: 38373, Stop: 38594, Start Num: 23
Candidate Starts for Powerpuff_54:
(Start: 23 @38373 has 64 MA's), (37, 38487), (52, 38580),

Gene: Pumpkins_51 Start: 37973, Stop: 38164, Start Num: 26
Candidate Starts for Pumpkins_51:
(Start: 26 @37973 has 25 MA's), (52, 38150),

Gene: Pumpkins_50 Start: 37746, Stop: 37976, Start Num: 23
Candidate Starts for Pumpkins_50:
(7, 37368), (Start: 23 @37746 has 64 MA's), (52, 37962),

Gene: Reedo_52 Start: 35933, Stop: 36109, Start Num: 26

Candidate Starts for Reedo_52:
(Start: 26 @35933 has 25 MA's), (32, 35984),

Gene: Reedo_51 Start: 35724, Stop: 35936, Start Num: 12
Candidate Starts for Reedo_51:
(Start: 12 @35724 has 1 MA's), (17, 35784), (Start: 23 @35922 has 64 MA's),

Gene: RockScotty_44 Start: 33228, Stop: 33440, Start Num: 23
Candidate Starts for RockScotty_44:
(11, 32991), (Start: 23 @33228 has 64 MA's), (34, 33294),

Gene: Sabourin_45 Start: 33308, Stop: 33520, Start Num: 23
Candidate Starts for Sabourin_45:
(Start: 23 @33308 has 64 MA's), (34, 33374),

Gene: Schaffner_51 Start: 37680, Stop: 37910, Start Num: 23
Candidate Starts for Schaffner_51:
(Start: 23 @37680 has 64 MA's), (52, 37896),

Gene: Simpson_54 Start: 37291, Stop: 37512, Start Num: 23
Candidate Starts for Simpson_54:
(Start: 23 @37291 has 64 MA's), (37, 37405), (52, 37498),

Gene: Skelbel_52 Start: 38110, Stop: 38301, Start Num: 26
Candidate Starts for Skelbel_52:
(Start: 26 @38110 has 25 MA's), (35, 38185), (40, 38224), (52, 38287),

Gene: Skelbel_51 Start: 37883, Stop: 38113, Start Num: 23
Candidate Starts for Skelbel_51:
(Start: 23 @37883 has 64 MA's), (37, 38000), (52, 38099),

Gene: Snek_55 Start: 37054, Stop: 37248, Start Num: 53
Candidate Starts for Snek_55:
(Start: 53 @37054 has 3 MA's), (54, 37156), (55, 37213),

Gene: Snek_54 Start: 36857, Stop: 37057, Start Num: 27
Candidate Starts for Snek_54:
(Start: 27 @36857 has 2 MA's), (31, 36902), (39, 36965), (41, 36983), (44, 36995), (52, 37043),

Gene: Soondubu_48 Start: 39736, Stop: 39963, Start Num: 22
Candidate Starts for Soondubu_48:
(Start: 22 @39736 has 1 MA's), (33, 39811), (52, 39949),

Gene: Sooty_45 Start: 33322, Stop: 33534, Start Num: 23
Candidate Starts for Sooty_45:
(11, 33085), (Start: 23 @33322 has 64 MA's), (34, 33388),

Gene: SpecialK_45 Start: 33306, Stop: 33518, Start Num: 23
Candidate Starts for SpecialK_45:
(11, 33069), (Start: 23 @33306 has 64 MA's), (34, 33372),

Gene: Stuu_45 Start: 33420, Stop: 33632, Start Num: 23
Candidate Starts for Stuu_45:

(11, 33183), (Start: 23 @33420 has 64 MA's), (34, 33486),

Gene: Subaru_50 Start: 37880, Stop: 38110, Start Num: 23
Candidate Starts for Subaru_50:
(Start: 23 @37880 has 64 MA's), (37, 37997), (52, 38096),

Gene: Subaru_51 Start: 38107, Stop: 38298, Start Num: 26
Candidate Starts for Subaru_51:
(Start: 26 @38107 has 25 MA's), (35, 38182), (52, 38284),

Gene: Sue2_52 Start: 37060, Stop: 37284, Start Num: 23
Candidate Starts for Sue2_52:
(1, 36403), (2, 36421), (4, 36535), (5, 36604), (8, 36670), (Start: 23 @37060 has 64 MA's), (52, 37270),

Gene: Tallboi_51 Start: 38238, Stop: 38468, Start Num: 23
Candidate Starts for Tallboi_51:
(Start: 23 @38238 has 64 MA's), (37, 38355), (52, 38454),

Gene: Tallboi_52 Start: 38465, Stop: 38656, Start Num: 26
Candidate Starts for Tallboi_52:
(Start: 26 @38465 has 25 MA's), (35, 38540), (52, 38642),

Gene: Tbone_52 Start: 37857, Stop: 38078, Start Num: 23
Candidate Starts for Tbone_52:
(Start: 23 @37857 has 64 MA's), (37, 37971), (52, 38064),

Gene: TforTroy_53 Start: 37830, Stop: 38021, Start Num: 26
Candidate Starts for TforTroy_53:
(Start: 26 @37830 has 25 MA's), (52, 38007),

Gene: TforTroy_52 Start: 37603, Stop: 37833, Start Num: 23
Candidate Starts for TforTroy_52:
(Start: 23 @37603 has 64 MA's), (37, 37720), (52, 37819),

Gene: ThursdayNight_55 Start: 38504, Stop: 38701, Start Num: 23
Candidate Starts for ThursdayNight_55:
(Start: 23 @38504 has 64 MA's), (36, 38582), (42, 38633), (51, 38681), (52, 38687),

Gene: Tian_52 Start: 39795, Stop: 39995, Start Num: 23
Candidate Starts for Tian_52:
(Start: 23 @39795 has 64 MA's), (52, 39981),

Gene: Tian_53 Start: 39992, Stop: 40183, Start Num: 26
Candidate Starts for Tian_53:
(Start: 26 @39992 has 25 MA's), (52, 40169),

Gene: Tuck_55 Start: 39348, Stop: 39566, Start Num: 23
Candidate Starts for Tuck_55:
(Start: 23 @39348 has 64 MA's), (37, 39456), (52, 39552),

Gene: Turab_48 Start: 36357, Stop: 36581, Start Num: 23
Candidate Starts for Turab_48:
(Start: 23 @36357 has 64 MA's), (52, 36567),

Gene: Turab_49 Start: 36578, Stop: 36769, Start Num: 26
Candidate Starts for Turab_49:
(Start: 26 @36578 has 25 MA's), (52, 36755),

Gene: Tutumahutu_53 Start: 37244, Stop: 37465, Start Num: 23
Candidate Starts for Tutumahutu_53:
(Start: 23 @37244 has 64 MA's), (37, 37358), (52, 37451),

Gene: Tweety19_55 Start: 36857, Stop: 37057, Start Num: 27
Candidate Starts for Tweety19_55:
(Start: 27 @36857 has 2 MA's), (31, 36902), (39, 36965), (41, 36983), (44, 36995), (52, 37043),

Gene: Tweety19_56 Start: 37054, Stop: 37248, Start Num: 53
Candidate Starts for Tweety19_56:
(Start: 53 @37054 has 3 MA's), (54, 37156), (55, 37213),

Gene: VResidence_52 Start: 36790, Stop: 37014, Start Num: 23
Candidate Starts for VResidence_52:
(Start: 23 @36790 has 64 MA's), (31, 36856), (38, 36901), (52, 37000),

Gene: Warda_52 Start: 37355, Stop: 37576, Start Num: 23
Candidate Starts for Warda_52:
(Start: 23 @37355 has 64 MA's), (37, 37469), (52, 37562),

Gene: Wildwest_51 Start: 37289, Stop: 37513, Start Num: 23
Candidate Starts for Wildwest_51:
(Start: 23 @37289 has 64 MA's), (52, 37499),

Gene: Yang_51 Start: 37412, Stop: 37642, Start Num: 23
Candidate Starts for Yang_51:
(Start: 23 @37412 has 64 MA's), (37, 37529), (44, 37577), (52, 37628),

Gene: Yang_52 Start: 37639, Stop: 37830, Start Num: 26
Candidate Starts for Yang_52:
(Start: 26 @37639 has 25 MA's), (52, 37816),

Gene: YesChef_52 Start: 37232, Stop: 37453, Start Num: 23
Candidate Starts for YesChef_52:
(Start: 23 @37232 has 64 MA's), (37, 37346), (52, 37439),