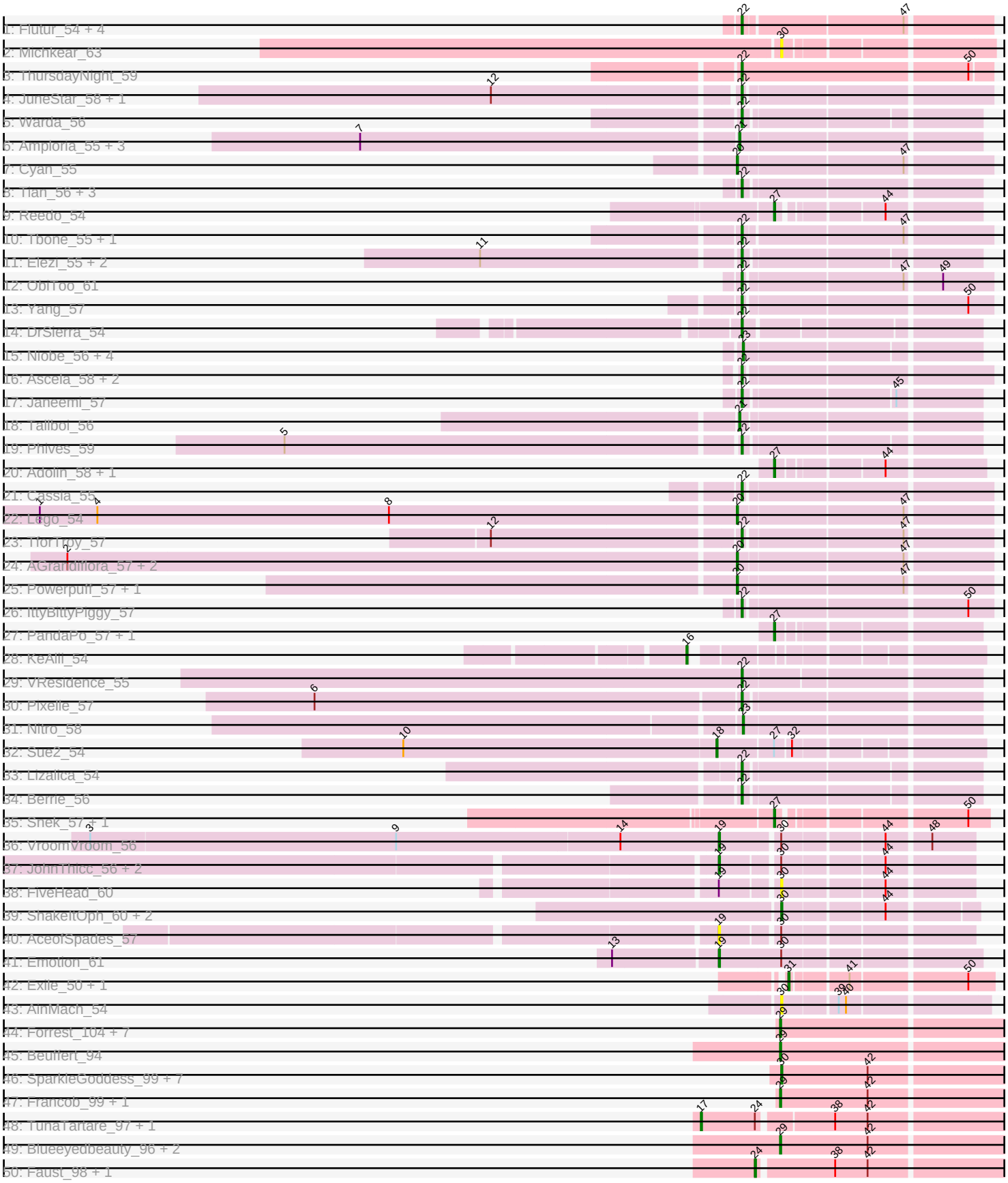
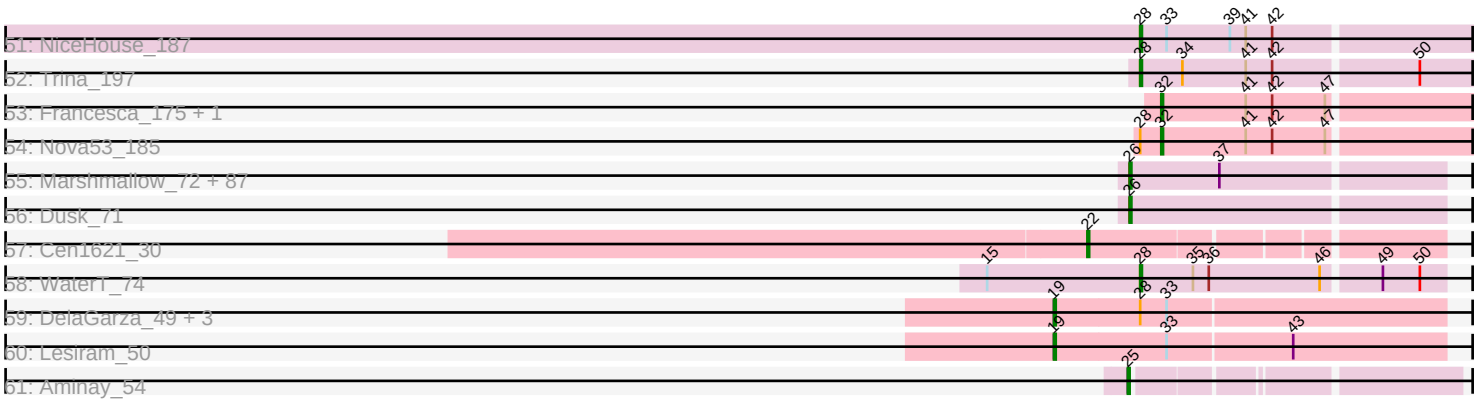
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1: Flutur_54 + 4
2: Michkear_63
3: ThursdayNight_59
4: JuneStar_58 + 1
5: Warda_56
6: Amplonia_55 + 3
7: Cyan_55
8: Tian_56 + 3
9: Reedo_54
10: Tbone_55 + 1
11: Elezi_55 + 2
12: ObiToo_61
13: Yang_57
14: DrSierra_54
15: Niobe_56 + 4
16: Ascela_58 + 2
17: Janeemi_57
18: Tallbol_56
19: Phives_59
20: Adolin_58 + 1
21: Cassia_55
22: Lego_54
23: HorTipy_57
24: AGrandiflora_57 + 2
25: Powerpuff_57 + 1
26: IttyBittyPiggy_57
27: PandaPo_57 + 1
28: KeAlli_54
29: VResidence_55
30: Pixelle_57
31: Nitro_58
32: Sue2_54
33: Lizalica_54
34: Bernie_56
35: Snek_57 + 1
36: VroomVroom_56
37: JohnThicc_56 + 2
38: FiveHead_60
39: ShakeItOph_60 + 2
40: AceofSpades_57
41: Emotion_61
42: Exile_50 + 1
43: AimMach_54
44: Forrest_104 + 7
45: Beuffert_94
46: SparkleGoddess_99 + 7
47: Francob_99 + 1
48: TunaTartare_97 + 1
49: Blueeyedbeauty_96 + 2
50: Faust_98 + 1

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51: NiceHouse_187
52: Trina_197
53: Francesca_175 + 1
54: Nova53_185
55: Marshmallow_72 + 87
56: Dusk_71
57: Cen1621_30
58: WaterT_74
59: DelaGarza_49 + 3
60: Lesiram_50
61: Aminay_54

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 347275 Report

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

Pham number 347275 has 202 members, 22 are drafts.

Phages represented in each track:
- Track 1 : Flutur_54, Tutumahutu_56, JohnDoe_55, Crewmate_61, Kaylissa_56
- Track 2 : Michkear_63
- Track 3 : ThursdayNight_59
- Track 4 : JuneStar_58, Schaffner_55
- Track 5 : Warda_56
- Track 6 : Amploria_55, AEgle_52, Turab_52, Adumb2043_53
- Track 7 : Cyan_55
- Track 8 : Tian_56, Community_58, Amyev_57, Pumpkins_54
- Track 9 : Reedo_54
- Track 10 : Tbone_55, Mudpuppy_52
- Track 11 : Elezi_55, Jstan_57, Subaru_55
- Track 12 : ObiToo_61
- Track 13 : Yang_57
- Track 14 : DrSierra_54
- Track 15 : Niobe_56, Asa16_56, Skelbel_57, Eraser_56, London_56
- Track 16 : Ascela_58, Iter_58, Tuck_58
- Track 17 : Janeemi_57
- Track 18 : Tallboi_56
- Track 19 : Phives_59
- Track 20 : Adolin_58, DrManhattan_58
- Track 21 : Cassia_55
- Track 22 : Lego_54
- Track 23 : TforTroy_57
- Track 24 : AGrandiflora_57, Joemato_55, Simpson_57
- Track 25 : Powerpuff_57, YesChef_55
- Track 26 : IttyBittyPiggy_57
- Track 27 : PandaPo_57, MissSwiss_57
- Track 28 : KeAlii_54
- Track 29 : VResidence_55
- Track 30 : Pixelle_57
- Track 31 : Nitro_58
- Track 32 : Sue2_54
- Track 33 : Lizalica_54
- Track 34 : Berrie_56
- Track 35 : Snek_57, Tweety19_58
- Track 36 : VroomVroom_56
- Track 37 : JohnThicc_56, Origami_56, LadyAstra_57

• Track 38 : FiveHead_60
• Track 39 : ShakeItOph_60, MiniMommy_60, JasmineDragon_60
• Track 40 : AceofSpades_57
• Track 41 : Emotion_61
• Track 42 : Exile_50, Soondubu_51
• Track 43 : AinMach_54
• Track 44 : Forrest_104, Gilson_101, Jada_101, DeluluLabubu_100, Maupel_101, Phredrick_100, MeganTheeKilla_99, Emma1919_102
• Track 45 : Beuffert_94
• Track 46 : SparkleGoddess_99, Karp_97, Comrade_98, Moab_100, Stigma_98, Westy_103, Patelgo_99, Belfort_101
• Track 47 : Francob_99, Kenrey_102
• Track 48 : TunaTartare_97, Sham_94
• Track 49 : Blueeyedbeauty_96, Annadreamy_94, Limpid_93
• Track 50 : Faust_98, SeresaTree_98
• Track 51 : NiceHouse_187
• Track 52 : Trina_197
• Track 53 : Francesca_175, Dorin_173
• Track 54 : Nova53_185
• Track 55 : Marshmallow_72, MollyToe_69, Mindy_73, Myrale_74, Dumbo_74, Flypotenuse_70, Hoonter_77, TBrady12_77, Kostya_74, Manda_75, Easy2Say_75, FoghornLeghorn_68, Bogg_74, Rimmer_75, OrionPax_73, Teaspoon_75, ShamWow_74, Buck_75, Porky_73, Amao_74, Highbury_73, SophKB_71, Ukulele_69, Cactus_77, NelitzaMV_72, NoSleep_75, Glexan_73, Eureka_72, Nala_76, xkcd_77, CrystalP_73, SirDuracell_73, AmericanBeauty_78, TeardropMSU_70, Pat3_72, Sotrice96_75, GoldenSpark_78, Daikon_76, IHOP_72, Cookies_71, GooberAzure_77, Goldilocks_77, Harella_74, Icee_75, Murica_77, ChotaBhai_74, Balomoji_74, Brewer_70, Kanye_71, Command613_76, Saints25_73, Gemini_79, 244_75, StormChicken_76, FairyPath_75, Elite2014_73, Cjw1_74, JeTaime_74, Nimrod_75, Inca_71, ChosenOne_74, HufflyPuff_77, Emmina_74, Gage_76, Goku_72, Simpliphy_73, Kimchi_78, BadStone_71, BaboJay_71, ABCat_71, DoctorDiddles_73, Argent26_78, Henry_72, Bask21_74, Petra64142_78, FireRed_78, ShereKhan_73, Ptowny_71, Tuco_75, StolenFromERC_77, Holt_79, Quallification_75, Toto_72, NonchalantPear_74, Lilpickle_73, MadamMonkfish_74, BilboSwaggins_72, Stank_77
• Track 56 : Dusk_71
• Track 57 : Cen1621_30
• Track 58 : WaterT_74
• Track 59 : DelaGarza_49, Gingerbug_48, Teng_50, Sweetums_51
• Track 60 : Lesiram_50
• Track 61 : Aminay_54

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

The start number called the most often in the published annotations is 26, it was called in 83 of the 180 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• 244_75, ABCat_71, Amao_74, AmericanBeauty_78, Argent26_78, BaboJay_71, BadStone_71, Balomoji_74, Bask21_74, BilboSwaggins_72, Bogg_74, Brewer_70,

Buck_75, Cactus_77, ChosenOne_74, ChotaBhai_74, Cjw1_74, Command613_76, Cookies_71, CrystalP_73, Daikon_76, DoctorDiddles_73, Dumbo_74, Dusk_71, Easy2Say_75, Elite2014_73, Emmina_74, Eureka_72, FairyPath_75, FireRed_78, Flypotenuse_70, FoghornLeghorn_68, Gage_76, Gemini_79, Glexan_73, Goku_72, GoldenSpark_78, Goldilocks_77, GooberAzure_77, Harella_74, Henry_72, Highbury_73, Holt_79, Hoonter_77, HufflyPuff_77, IHOP_72, Icee_75, Inca_71, JeTaime_74, Kanye_71, Kimchi_78, Kostya_74, Lilpickle_73, MadamMonkfish_74, Manda_75, Marshmallow_72, Mindy_73, MollyToe_69, Murica_77, Myrale_74, Nala_76, NelitzaMV_72, Nimrod_75, NoSleep_75, NonchalantPear_74, OrionPax_73, Pat3_72, Petra64142_78, Porky_73, Ptowny_71, Quallification_75, Rimmer_75, Saints25_73, ShamWow_74, ShereKhan_73, Simpliphy_73, SirDuracell_73, SophKB_71, Sotrice96_75, Stank_77, StolenFromERC_77, StormChicken_76, TBrady12_77, TeardropMSU_70, Teaspoon_75, Toto_72, Tuco_75, Ukulele_69, xkcd_77,

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

Genes that do not have the "Most Annotated" start:
• AEgle_52, AGrandiflora_57, AceofSpades_57, Adolin_58, Adumb2043_53, AinMach_54, Aminay_54, Amploria_55, Amyev_57, Annadreamy_94, Asa16_56, Ascela_58, Belfort_101, Berrie_56, Beuffert_94, Blueeyedbeauty_96, Cassia_55, Cen1621_30, Community_58, Comrade_98, Crewmate_61, Cyan_55, DelaGarza_49, DeluluLababu_100, Dorin_173, DrManhattan_58, DrSierra_54, Elezi_55, Emma1919_102, Emotion_61, Eraser_56, Exile_50, Faust_98, FiveHead_60, Flutur_54, Forrest_104, Francesca_175, Francob_99, Gilson_101, Gingerbug_48, Iter_58, IttyBittyPiggy_57, Jada_101, Janeemi_57, JasmineDragon_60, Joemato_55, JohnDoe_55, JohnThicc_56, Jstan_57, JuneStar_58, Karp_97, Kaylissa_56, KeAlii_54, Kenrey_102, LadyAstra_57, Lego_54, Lesiram_50, Limpid_93, Lizalica_54, London_56, Maupel_101, MeganTheeKilla_99, Michkear_63, MiniMommy_60, MissSwiss_57, Moab_100, Mudpuppy_52, NiceHouse_187, Niobe_56, Nitro_58, Nova53_185, ObiToo_61, Origami_56, PandaPo_57, Patelgo_99, Phives_59, Phredrick_100, Pixelle_57, Powerpuff_57, Pumpkins_54, Reedo_54, Schaffner_55, SeresaTree_98, ShakeItOph_60, Sham_94, Simpson_57, Skelbel_57, Snek_57, Soondubu_51, SparkleGoddess_99, Stigma_98, Subaru_55, Sue2_54, Sweetums_51, Tallboi_56, Tbone_55, Teng_50, TforTroy_57, ThursdayNight_59, Tian_56, Trina_197, Tuck_58, TunaTartare_97, Turab_52, Tutumahutu_56, Tweety19_58, VResidence_55, VroomVroom_56, Warda_56, WaterT_74, Westy_103, Yang_57, YesChef_55,

Summary by start number:

Start 16:
• Found in 1 of 202 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: KeAlii_54 (AZ1),

Start 17:
• Found in 2 of 202 (1.0%) of genes in pham
• Manual Annotations of this start: 2 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sham_94 (BK1), TunaTartare_97 (BK1),

Start 18:
• Found in 1 of 202 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sue2_54 (AZ1),

Start 19:
• Found in 12 of 202 (5.9%) of genes in pham
• Manual Annotations of this start: 10 of 180
• Called 91.7% of time when present
• Phage (with cluster) where this start called: AceofSpades_57 (AZ4), DelaGarza_49 (GF), Emotion_61 (AZ4), Gingerbug_48 (GF), JohnThicc_56 (AZ4), LadyAstra_57 (AZ4), Lesiram_50 (GF), Origami_56 (AZ4), Sweetums_51 (GF), Teng_50 (GF), VroomVroom_56 (AZ4),

Start 20:
• Found in 7 of 202 (3.5%) of genes in pham
• Manual Annotations of this start: 5 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AGrandiflora_57 (AZ1), Cyan_55 (AZ1), Joemato_55 (AZ1), Lego_54 (AZ1), Powerpuff_57 (AZ1), Simpson_57 (AZ1), YesChef_55 (AZ1),

Start 21:
• Found in 5 of 202 (2.5%) of genes in pham
• Manual Annotations of this start: 4 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AEgle_52 (AZ1), Adumb2043_53 (AZ1), Amploria_55 (AZ1), Tallboi_56 (AZ1), Turab_52 (AZ1),

Start 22:
• Found in 34 of 202 (16.8%) of genes in pham
• Manual Annotations of this start: 30 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amyev_57 (AZ1), Ascela_58 (AZ1), Berrie_56 (AZ1), Cassia_55 (AZ1), Cen1621_30 (EH), Community_58 (AZ1), Crewmate_61 (AZ1), DrSierra_54 (AZ1), Elezi_55 (AZ1), Flutur_54 (AZ), Iter_58 (AZ1), IttyBittyPiggy_57 (AZ1), Janeemi_57 (AZ1), JohnDoe_55 (AZ1), Jstan_57 (AZ1), JuneStar_58 (AZ1), Kaylissa_56 (AZ1), Lizalica_54 (AZ1), Mudpuppy_52 (AZ1), ObiToo_61 (AZ1), Phives_59 (AZ1), Pixelle_57 (AZ1), Pumpkins_54 (AZ1), Schaffner_55 (AZ1), Subaru_55 (AZ1), Tbone_55 (AZ1), TforTroy_57 (AZ1), ThursdayNight_59 (AZ), Tian_56 (AZ1), Tuck_58 (AZ1), Tutumahutu_56 (AZ1), VResidence_55 (AZ1), Warda_56 (AZ1), Yang_57 (AZ1),

Start 23:
• Found in 6 of 202 (3.0%) of genes in pham
• Manual Annotations of this start: 5 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Asa16_56 (AZ1), Eraser_56 (AZ1), London_56 (AZ1), Niobe_56 (AZ1), Nitro_58 (AZ1), Skelbel_57 (AZ1),

Start 24:

• Found in 4 of 202 (2.0%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Faust_98 (BK1), SeresaTree_98 (BK1),

Start 25:
• Found in 1 of 202 (0.5%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aminay_54 (K7),

Start 26:
• Found in 89 of 202 (44.1%) of genes in pham
• Manual Annotations of this start: 83 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: 244_75 (E), ABCat_71 (E), Amao_74 (E), AmericanBeauty_78 (E), Argent26_78 (E), BaboJay_71 (E), BadStone_71 (E), Balomoji_74 (E), Bask21_74 (E), BilboSwaggins_72 (E), Bogg_74 (E), Brewer_70 (E), Buck_75 (E), Cactus_77 (E), ChosenOne_74 (E), ChotaBhai_74 (E), Cjw1_74 (E), Command613_76 (E), Cookies_71 (E), CrystalP_73 (E), Daikon_76 (E), DoctorDiddles_73 (E), Dumbo_74 (E), Dusk_71 (E), Easy2Say_75 (E), Elite2014_73 (E), Emmina_74 (E), Eureka_72 (E), FairyPath_75 (E), FireRed_78 (E), Flypotenuse_70 (E), FoghornLeghorn_68 (E), Gage_76 (E), Gemini_79 (E), Glexan_73 (E), Goku_72 (E), GoldenSpark_78 (E), Goldilocks_77 (E), GooberAzure_77 (E), Harella_74 (E), Henry_72 (E), Highbury_73 (E), Holt_79 (E), Hoonter_77 (E), HufflyPuff_77 (E), IHOP_72 (E), Icee_75 (E), Inca_71 (E), JeTaime_74 (E), Kanye_71 (E), Kimchi_78 (E), Kostya_74 (E), Lilpickle_73 (E), MadamMonkfish_74 (E), Manda_75 (E), Marshmallow_72 (E), Mindy_73 (E), MollyToe_69 (E), Murica_77 (E), Myrale_74 (E), Nala_76 (E), NelitzaMV_72 (E), Nimrod_75 (E), NoSleep_75 (E), NonchalantPear_74 (E), OrionPax_73 (E), Pat3_72 (E), Petra64142_78 (E), Porky_73 (E), Ptowny_71 (E), Quallification_75 (E), Rimmer_75 (E), Saints25_73 (E), ShamWow_74 (E), ShereKhan_73 (E), Simpliphy_73 (E), SirDuracell_73 (E), SophKB_71 (E), Sotrice96_75 (E), Stank_77 (E), StolenFromERC_77 (E), StormChicken_76 (E), TBrady12_77 (E), TeardropMSU_70 (E), Teaspoon_75 (E), Toto_72 (E), Tuco_75 (E), Ukulele_69 (E), xkcd_77 (E),

Start 27:
• Found in 8 of 202 (4.0%) of genes in pham
• Manual Annotations of this start: 6 of 180
• Called 87.5% of time when present
• Phage (with cluster) where this start called: Adolin_58 (AZ1), DrManhattan_58 (AZ1), MissSwiss_57 (AZ1), PandaPo_57 (AZ1), Reedo_54 (AZ1), Snek_57 (AZ3), Tweety19_58 (AZ3),

Start 28:
• Found in 8 of 202 (4.0%) of genes in pham
• Manual Annotations of this start: 3 of 180
• Called 37.5% of time when present
• Phage (with cluster) where this start called: NiceHouse_187 (CE), Trina_197 (CE), WaterT_74 (GB),

Start 29:

• Found in 14 of 202 (6.9%) of genes in pham
• Manual Annotations of this start: 13 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_94 (BK1), Beuffert_94 (BK1), Blueeyedbeauty_96 (BK1), DeluluLabubu_100 (BK1), Emma1919_102 (BK1), Forrest_104 (BK1), Francob_99 (BK1), Gilson_101 (BK1), Jada_101 (BK1), Kenrey_102 (BK1), Limpid_93 (BK1), Maupel_101 (BK1), MeganTheeKilla_99 (BK1), Phredrick_100 (BK1),

Start 30:
• Found in 20 of 202 (9.9%) of genes in pham
• Manual Annotations of this start: 11 of 180
• Called 70.0% of time when present
• Phage (with cluster) where this start called: AinMach_54 (AZ7), Belfort_101 (BK1), Comrade_98 (BK1), FiveHead_60 (AZ4), JasmineDragon_60 (AZ4), Karp_97 (BK1), Michkear_63 (AZ), MiniMommy_60 (AZ4), Moab_100 (BK1), Patelgo_99 (BK1), ShakeItOph_60 (AZ4), SparkleGoddess_99 (BK1), Stigma_98 (BK1), Westy_103 (BK1),

Start 31:
• Found in 2 of 202 (1.0%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Exile_50 (AZ6), Soondubu_51 (AZ6),

Start 32:
• Found in 4 of 202 (2.0%) of genes in pham
• Manual Annotations of this start: 3 of 180
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Dorin_173 (CG), Francesca_175 (CG), Nova53_185 (CG),

Summary by clusters:

There are 14 clusters represented in this pham: AZ, E, EH, AZ7, CG, CE, GF, K7, BK1, AZ1, AZ3, AZ4, AZ6, GB,

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

Info for manual annotations of cluster AZ1:
•Start number 16 was manually annotated 1 time for cluster AZ1.
•Start number 18 was manually annotated 1 time for cluster AZ1.
•Start number 20 was manually annotated 5 times for cluster AZ1.
•Start number 21 was manually annotated 4 times for cluster AZ1.
•Start number 22 was manually annotated 28 times for cluster AZ1.
•Start number 23 was manually annotated 5 times for cluster AZ1.
•Start number 27 was manually annotated 4 times for cluster AZ1.

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

Info for manual annotations of cluster AZ4:

•Start number 19 was manually annotated 5 times for cluster AZ4.
•Start number 30 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster AZ6:
•Start number 31 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster BK1:
•Start number 17 was manually annotated 2 times for cluster BK1.
•Start number 24 was manually annotated 1 time for cluster BK1.
•Start number 29 was manually annotated 13 times for cluster BK1.
•Start number 30 was manually annotated 8 times for cluster BK1.

Info for manual annotations of cluster CE:
•Start number 28 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:
•Start number 32 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster E:
•Start number 26 was manually annotated 83 times for cluster E.

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

Info for manual annotations of cluster GB:
•Start number 28 was manually annotated 1 time for cluster GB.

Info for manual annotations of cluster GF:
•Start number 19 was manually annotated 5 times for cluster GF.

Info for manual annotations of cluster K7:
•Start number 25 was manually annotated 1 time for cluster K7.

Gene Information:

Gene: 244_75 Start: 47793, Stop: 47966, Start Num: 26
Candidate Starts for 244_75:
(Start: 26 @47793 has 83 MA's), (37, 47844),

Gene: ABCat_71 Start: 48146, Stop: 48319, Start Num: 26
Candidate Starts for ABCat_71:
(Start: 26 @48146 has 83 MA's), (37, 48197),

Gene: AEgle_52 Start: 37591, Stop: 37782, Start Num: 21
Candidate Starts for AEgle_52:
(7, 37285), (Start: 21 @37591 has 4 MA's),

Gene: AGrandiflora_57 Start: 38760, Stop: 38960, Start Num: 20
Candidate Starts for AGrandiflora_57:
(2, 38211), (Start: 20 @38760 has 5 MA's), (47, 38892),

Gene: AceofSpades_57 Start: 39591, Stop: 39779, Start Num: 19
Candidate Starts for AceofSpades_57:
(Start: 19 @39591 has 10 MA's), (Start: 30 @39633 has 11 MA's),

Gene: Adolin_58 Start: 37478, Stop: 37633, Start Num: 27
Candidate Starts for Adolin_58:
(Start: 27 @37478 has 6 MA's), (44, 37556),

Gene: Adumb2043_53 Start: 37614, Stop: 37805, Start Num: 21
Candidate Starts for Adumb2043_53:
(7, 37308), (Start: 21 @37614 has 4 MA's),

Gene: AinMach_54 Start: 37308, Stop: 37466, Start Num: 30
Candidate Starts for AinMach_54:
(Start: 30 @37308 has 11 MA's), (39, 37350), (40, 37356),

Gene: Amao_74 Start: 47566, Stop: 47739, Start Num: 26
Candidate Starts for Amao_74:
(Start: 26 @47566 has 83 MA's), (37, 47617),

Gene: AmericanBeauty_78 Start: 48315, Stop: 48488, Start Num: 26
Candidate Starts for AmericanBeauty_78:
(Start: 26 @48315 has 83 MA's), (37, 48366),

Gene: Aminay_54 Start: 38354, Stop: 38521, Start Num: 25
Candidate Starts for Aminay_54:
(Start: 25 @38354 has 1 MA's),

Gene: Amploria_55 Start: 37795, Stop: 37986, Start Num: 21
Candidate Starts for Amploria_55:
(7, 37489), (Start: 21 @37795 has 4 MA's),

Gene: Amyev_57 Start: 40846, Stop: 41031, Start Num: 22
Candidate Starts for Amyev_57:
(Start: 22 @40846 has 30 MA's),

Gene: Annadreamy_94 Start: 66362, Stop: 66547, Start Num: 29
Candidate Starts for Annadreamy_94:
(Start: 29 @66362 has 13 MA's), (42, 66434),

Gene: Argent26_78 Start: 47953, Stop: 48126, Start Num: 26
Candidate Starts for Argent26_78:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: Asa16_56 Start: 39543, Stop: 39728, Start Num: 23
Candidate Starts for Asa16_56:
(Start: 23 @39543 has 5 MA's),

Gene: Ascela_58 Start: 39002, Stop: 39196, Start Num: 22
Candidate Starts for Ascela_58:
(Start: 22 @39002 has 30 MA's),

Gene: BaboJay_71 Start: 47346, Stop: 47519, Start Num: 26
Candidate Starts for BaboJay_71:
(Start: 26 @47346 has 83 MA's), (37, 47397),

Gene: BadStone_71 Start: 47715, Stop: 47888, Start Num: 26
Candidate Starts for BadStone_71:
(Start: 26 @47715 has 83 MA's), (37, 47766),

Gene: Balomoji_74 Start: 48276, Stop: 48449, Start Num: 26
Candidate Starts for Balomoji_74:
(Start: 26 @48276 has 83 MA's), (37, 48327),

Gene: Bask21_74 Start: 47129, Stop: 47302, Start Num: 26
Candidate Starts for Bask21_74:
(Start: 26 @47129 has 83 MA's), (37, 47180),

Gene: Belfort_101 Start: 68605, Stop: 68790, Start Num: 30
Candidate Starts for Belfort_101:
(Start: 30 @68605 has 11 MA's), (42, 68677),

Gene: Berrie_56 Start: 38817, Stop: 38999, Start Num: 22
Candidate Starts for Berrie_56:
(Start: 22 @38817 has 30 MA's),

Gene: Beuffert_94 Start: 66921, Stop: 67106, Start Num: 29
Candidate Starts for Beuffert_94:
(Start: 29 @66921 has 13 MA's),

Gene: BilboSwaggins_72 Start: 48154, Stop: 48327, Start Num: 26
Candidate Starts for BilboSwaggins_72:
(Start: 26 @48154 has 83 MA's), (37, 48205),

Gene: Blueeyedbeauty_96 Start: 66320, Stop: 66505, Start Num: 29
Candidate Starts for Blueeyedbeauty_96:
(Start: 29 @66320 has 13 MA's), (42, 66392),

Gene: Bogg_74 Start: 47092, Stop: 47265, Start Num: 26
Candidate Starts for Bogg_74:
(Start: 26 @47092 has 83 MA's), (37, 47143),

Gene: Brewer_70 Start: 46615, Stop: 46788, Start Num: 26
Candidate Starts for Brewer_70:
(Start: 26 @46615 has 83 MA's), (37, 46666),

Gene: Buck_75 Start: 48394, Stop: 48567, Start Num: 26
Candidate Starts for Buck_75:
(Start: 26 @48394 has 83 MA's), (37, 48445),

Gene: Cactus_77 Start: 47170, Stop: 47343, Start Num: 26
Candidate Starts for Cactus_77:
(Start: 26 @47170 has 83 MA's), (37, 47221),

Gene: Cassia_55 Start: 38504, Stop: 38698, Start Num: 22

Candidate Starts for Cassia_55:
(Start: 22 @38504 has 30 MA's),

Gene: Cen1621_30 Start: 22502, Stop: 22687, Start Num: 22
Candidate Starts for Cen1621_30:
(Start: 22 @22502 has 30 MA's),

Gene: ChosenOne_74 Start: 47170, Stop: 47343, Start Num: 26
Candidate Starts for ChosenOne_74:
(Start: 26 @47170 has 83 MA's), (37, 47221),

Gene: ChotaBhai_74 Start: 47494, Stop: 47667, Start Num: 26
Candidate Starts for ChotaBhai_74:
(Start: 26 @47494 has 83 MA's), (37, 47545),

Gene: Cjw1_74 Start: 48867, Stop: 49040, Start Num: 26
Candidate Starts for Cjw1_74:
(Start: 26 @48867 has 83 MA's), (37, 48918),

Gene: Command613_76 Start: 48209, Stop: 48382, Start Num: 26
Candidate Starts for Command613_76:
(Start: 26 @48209 has 83 MA's), (37, 48260),

Gene: Community_58 Start: 40395, Stop: 40577, Start Num: 22
Candidate Starts for Community_58:
(Start: 22 @40395 has 30 MA's),

Gene: Comrade_98 Start: 67922, Stop: 68107, Start Num: 30
Candidate Starts for Comrade_98:
(Start: 30 @67922 has 11 MA's), (42, 67994),

Gene: Cookies_71 Start: 47351, Stop: 47524, Start Num: 26
Candidate Starts for Cookies_71:
(Start: 26 @47351 has 83 MA's), (37, 47402),

Gene: Crewmate_61 Start: 40124, Stop: 40318, Start Num: 22
Candidate Starts for Crewmate_61:
(Start: 22 @40124 has 30 MA's), (47, 40250),

Gene: CrystalP_73 Start: 48154, Stop: 48327, Start Num: 26
Candidate Starts for CrystalP_73:
(Start: 26 @48154 has 83 MA's), (37, 48205),

Gene: Cyan_55 Start: 38301, Stop: 38501, Start Num: 20
Candidate Starts for Cyan_55:
(Start: 20 @38301 has 5 MA's), (47, 38433),

Gene: Daikon_76 Start: 48297, Stop: 48470, Start Num: 26
Candidate Starts for Daikon_76:
(Start: 26 @48297 has 83 MA's), (37, 48348),

Gene: DelaGarza_49 Start: 28678, Stop: 28896, Start Num: 19
Candidate Starts for DelaGarza_49:

(Start: 19 @28678 has 10 MA's), (Start: 28 @28726 has 3 MA's), (33, 28741),

Gene: DeluluLababu_100 Start: 66761, Stop: 66946, Start Num: 29
Candidate Starts for DeluluLababu_100:
(Start: 29 @66761 has 13 MA's),

Gene: DoctorDiddles_73 Start: 47538, Stop: 47711, Start Num: 26
Candidate Starts for DoctorDiddles_73:
(Start: 26 @47538 has 83 MA's), (37, 47589),

Gene: Dorin_173 Start: 95195, Stop: 95365, Start Num: 32
Candidate Starts for Dorin_173:
(Start: 32 @95195 has 3 MA's), (41, 95243), (42, 95258), (47, 95288),

Gene: DrManhattan_58 Start: 37046, Stop: 37201, Start Num: 27
Candidate Starts for DrManhattan_58:
(Start: 27 @37046 has 6 MA's), (44, 37124),

Gene: DrSierra_54 Start: 37220, Stop: 37399, Start Num: 22
Candidate Starts for DrSierra_54:
(Start: 22 @37220 has 30 MA's),

Gene: Dumbo_74 Start: 47075, Stop: 47248, Start Num: 26
Candidate Starts for Dumbo_74:
(Start: 26 @47075 has 83 MA's), (37, 47126),

Gene: Dusk_71 Start: 47375, Stop: 47548, Start Num: 26
Candidate Starts for Dusk_71:
(Start: 26 @47375 has 83 MA's),

Gene: Easy2Say_75 Start: 48619, Stop: 48792, Start Num: 26
Candidate Starts for Easy2Say_75:
(Start: 26 @48619 has 83 MA's), (37, 48670),

Gene: Elezi_55 Start: 39303, Stop: 39485, Start Num: 22
Candidate Starts for Elezi_55:
(11, 39096), (Start: 22 @39303 has 30 MA's),

Gene: Elite2014_73 Start: 47169, Stop: 47342, Start Num: 26
Candidate Starts for Elite2014_73:
(Start: 26 @47169 has 83 MA's), (37, 47220),

Gene: Emma1919_102 Start: 67382, Stop: 67567, Start Num: 29
Candidate Starts for Emma1919_102:
(Start: 29 @67382 has 13 MA's),

Gene: Emmina_74 Start: 47076, Stop: 47249, Start Num: 26
Candidate Starts for Emmina_74:
(Start: 26 @47076 has 83 MA's), (37, 47127),

Gene: Emotion_61 Start: 40785, Stop: 40988, Start Num: 19
Candidate Starts for Emotion_61:
(13, 40701), (Start: 19 @40785 has 10 MA's), (Start: 30 @40836 has 11 MA's),

Gene: Eraser_56 Start: 39550, Stop: 39735, Start Num: 23
Candidate Starts for Eraser_56:
(Start: 23 @39550 has 5 MA's),

Gene: Eureka_72 Start: 47640, Stop: 47813, Start Num: 26
Candidate Starts for Eureka_72:
(Start: 26 @47640 has 83 MA's), (37, 47691),

Gene: Exile_50 Start: 40505, Stop: 40657, Start Num: 31
Candidate Starts for Exile_50:
(Start: 31 @40505 has 1 MA's), (41, 40547), (50, 40637),

Gene: FairyPath_75 Start: 48288, Stop: 48461, Start Num: 26
Candidate Starts for FairyPath_75:
(Start: 26 @48288 has 83 MA's), (37, 48339),

Gene: Faust_98 Start: 68011, Stop: 68205, Start Num: 24
Candidate Starts for Faust_98:
(Start: 24 @68011 has 1 MA's), (38, 68071), (42, 68098),

Gene: FireRed_78 Start: 48663, Stop: 48836, Start Num: 26
Candidate Starts for FireRed_78:
(Start: 26 @48663 has 83 MA's), (37, 48714),

Gene: FiveHead_60 Start: 39271, Stop: 39417, Start Num: 30
Candidate Starts for FiveHead_60:
(Start: 19 @39229 has 10 MA's), (Start: 30 @39271 has 11 MA's), (44, 39349),

Gene: Flutur_54 Start: 38613, Stop: 38807, Start Num: 22
Candidate Starts for Flutur_54:
(Start: 22 @38613 has 30 MA's), (47, 38739),

Gene: Flypotenuse_70 Start: 47160, Stop: 47333, Start Num: 26
Candidate Starts for Flypotenuse_70:
(Start: 26 @47160 has 83 MA's), (37, 47211),

Gene: FoghornLeghorn_68 Start: 46173, Stop: 46346, Start Num: 26
Candidate Starts for FoghornLeghorn_68:
(Start: 26 @46173 has 83 MA's), (37, 46224),

Gene: Forrest_104 Start: 69125, Stop: 69310, Start Num: 29
Candidate Starts for Forrest_104:
(Start: 29 @69125 has 13 MA's),

Gene: Francesca_175 Start: 96114, Stop: 96284, Start Num: 32
Candidate Starts for Francesca_175:
(Start: 32 @96114 has 3 MA's), (41, 96162), (42, 96177), (47, 96207),

Gene: Francob_99 Start: 67565, Stop: 67750, Start Num: 29
Candidate Starts for Francob_99:
(Start: 29 @67565 has 13 MA's), (42, 67637),

Gene: Gage_76 Start: 47953, Stop: 48126, Start Num: 26
Candidate Starts for Gage_76:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: Gemini_79 Start: 48470, Stop: 48643, Start Num: 26
Candidate Starts for Gemini_79:
(Start: 26 @48470 has 83 MA's), (37, 48521),

Gene: Gilson_101 Start: 67344, Stop: 67529, Start Num: 29
Candidate Starts for Gilson_101:
(Start: 29 @67344 has 13 MA's),

Gene: Gingerbug_48 Start: 29164, Stop: 29382, Start Num: 19
Candidate Starts for Gingerbug_48:
(Start: 19 @29164 has 10 MA's), (Start: 28 @29212 has 3 MA's), (33, 29227),

Gene: Glexan_73 Start: 48290, Stop: 48463, Start Num: 26
Candidate Starts for Glexan_73:
(Start: 26 @48290 has 83 MA's), (37, 48341),

Gene: Goku_72 Start: 47369, Stop: 47542, Start Num: 26
Candidate Starts for Goku_72:
(Start: 26 @47369 has 83 MA's), (37, 47420),

Gene: GoldenSpark_78 Start: 47953, Stop: 48126, Start Num: 26
Candidate Starts for GoldenSpark_78:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: Goldilocks_77 Start: 47451, Stop: 47624, Start Num: 26
Candidate Starts for Goldilocks_77:
(Start: 26 @47451 has 83 MA's), (37, 47502),

Gene: GooberAzure_77 Start: 47953, Stop: 48126, Start Num: 26
Candidate Starts for GooberAzure_77:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: Harella_74 Start: 48806, Stop: 48979, Start Num: 26
Candidate Starts for Harella_74:
(Start: 26 @48806 has 83 MA's), (37, 48857),

Gene: Henry_72 Start: 47594, Stop: 47767, Start Num: 26
Candidate Starts for Henry_72:
(Start: 26 @47594 has 83 MA's), (37, 47645),

Gene: Highbury_73 Start: 47242, Stop: 47415, Start Num: 26
Candidate Starts for Highbury_73:
(Start: 26 @47242 has 83 MA's), (37, 47293),

Gene: Holt_79 Start: 48367, Stop: 48540, Start Num: 26
Candidate Starts for Holt_79:
(Start: 26 @48367 has 83 MA's), (37, 48418),

Gene: Hoonter_77 Start: 47953, Stop: 48126, Start Num: 26

Candidate Starts for Hoonter_77:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: HufflyPuff_77 Start: 48619, Stop: 48792, Start Num: 26
Candidate Starts for HufflyPuff_77:
(Start: 26 @48619 has 83 MA's), (37, 48670),

Gene: IHOP_72 Start: 47718, Stop: 47891, Start Num: 26
Candidate Starts for IHOP_72:
(Start: 26 @47718 has 83 MA's), (37, 47769),

Gene: Icee_75 Start: 47617, Stop: 47790, Start Num: 26
Candidate Starts for Icee_75:
(Start: 26 @47617 has 83 MA's), (37, 47668),

Gene: Inca_71 Start: 46243, Stop: 46416, Start Num: 26
Candidate Starts for Inca_71:
(Start: 26 @46243 has 83 MA's), (37, 46294),

Gene: Iter_58 Start: 38994, Stop: 39182, Start Num: 22
Candidate Starts for Iter_58:
(Start: 22 @38994 has 30 MA's),

Gene: IttyBittyPiggy_57 Start: 38132, Stop: 38326, Start Num: 22
Candidate Starts for IttyBittyPiggy_57:
(Start: 22 @38132 has 30 MA's), (50, 38306),

Gene: Jada_101 Start: 67857, Stop: 68042, Start Num: 29
Candidate Starts for Jada_101:
(Start: 29 @67857 has 13 MA's),

Gene: Janeemi_57 Start: 39872, Stop: 40054, Start Num: 22
Candidate Starts for Janeemi_57:
(Start: 22 @39872 has 30 MA's), (45, 39989),

Gene: JasmineDragon_60 Start: 40141, Stop: 40287, Start Num: 30
Candidate Starts for JasmineDragon_60:
(Start: 30 @40141 has 11 MA's), (44, 40219),

Gene: JeTaime_74 Start: 48435, Stop: 48608, Start Num: 26
Candidate Starts for JeTaime_74:
(Start: 26 @48435 has 83 MA's), (37, 48486),

Gene: Joemato_55 Start: 38382, Stop: 38582, Start Num: 20
Candidate Starts for Joemato_55:
(2, 37833), (Start: 20 @38382 has 5 MA's), (47, 38514),

Gene: JohnDoe_55 Start: 38368, Stop: 38562, Start Num: 22
Candidate Starts for JohnDoe_55:
(Start: 22 @38368 has 30 MA's), (47, 38494),

Gene: JohnThicc_56 Start: 39229, Stop: 39417, Start Num: 19
Candidate Starts for JohnThicc_56:

(Start: 19 @39229 has 10 MA's), (Start: 30 @39271 has 11 MA's), (44, 39349),

Gene: Jstan_57 Start: 39307, Stop: 39489, Start Num: 22
Candidate Starts for Jstan_57:
(11, 39100), (Start: 22 @39307 has 30 MA's),

Gene: JuneStar_58 Start: 41416, Stop: 41610, Start Num: 22
Candidate Starts for JuneStar_58:
(12, 41221), (Start: 22 @41416 has 30 MA's),

Gene: Kanye_71 Start: 47299, Stop: 47472, Start Num: 26
Candidate Starts for Kanye_71:
(Start: 26 @47299 has 83 MA's), (37, 47350),

Gene: Karp_97 Start: 67879, Stop: 68064, Start Num: 30
Candidate Starts for Karp_97:
(Start: 30 @67879 has 11 MA's), (42, 67951),

Gene: Kaylissa_56 Start: 38763, Stop: 38960, Start Num: 22
Candidate Starts for Kaylissa_56:
(Start: 22 @38763 has 30 MA's), (47, 38892),

Gene: KeAlii_54 Start: 38009, Stop: 38218, Start Num: 16
Candidate Starts for KeAlii_54:
(Start: 16 @38009 has 1 MA's),

Gene: Kenrey_102 Start: 67572, Stop: 67757, Start Num: 29
Candidate Starts for Kenrey_102:
(Start: 29 @67572 has 13 MA's), (42, 67644),

Gene: Kimchi_78 Start: 47956, Stop: 48129, Start Num: 26
Candidate Starts for Kimchi_78:
(Start: 26 @47956 has 83 MA's), (37, 48007),

Gene: Kostya_74 Start: 47817, Stop: 47990, Start Num: 26
Candidate Starts for Kostya_74:
(Start: 26 @47817 has 83 MA's), (37, 47868),

Gene: LadyAstra_57 Start: 39329, Stop: 39517, Start Num: 19
Candidate Starts for LadyAstra_57:
(Start: 19 @39329 has 10 MA's), (Start: 30 @39371 has 11 MA's), (44, 39449),

Gene: Lego_54 Start: 38079, Stop: 38279, Start Num: 20
Candidate Starts for Lego_54:
(1, 37506), (4, 37554), (8, 37797), (Start: 20 @38079 has 5 MA's), (47, 38211),

Gene: Lesiram_50 Start: 28642, Stop: 28860, Start Num: 19
Candidate Starts for Lesiram_50:
(Start: 19 @28642 has 10 MA's), (33, 28705), (43, 28774),

Gene: Lilpickle_73 Start: 47169, Stop: 47342, Start Num: 26
Candidate Starts for Lilpickle_73:
(Start: 26 @47169 has 83 MA's), (37, 47220),

Gene: Limpid_93 Start: 66361, Stop: 66546, Start Num: 29
Candidate Starts for Limpid_93:
(Start: 29 @66361 has 13 MA's), (42, 66433),

Gene: Lizalica_54 Start: 37826, Stop: 38008, Start Num: 22
Candidate Starts for Lizalica_54:
(Start: 22 @37826 has 30 MA's),

Gene: London_56 Start: 39541, Stop: 39726, Start Num: 23
Candidate Starts for London_56:
(Start: 23 @39541 has 5 MA's),

Gene: MadamMonkfish_74 Start: 46893, Stop: 47066, Start Num: 26
Candidate Starts for MadamMonkfish_74:
(Start: 26 @46893 has 83 MA's), (37, 46944),

Gene: Manda_75 Start: 48755, Stop: 48928, Start Num: 26
Candidate Starts for Manda_75:
(Start: 26 @48755 has 83 MA's), (37, 48806),

Gene: Marshmallow_72 Start: 48448, Stop: 48621, Start Num: 26
Candidate Starts for Marshmallow_72:
(Start: 26 @48448 has 83 MA's), (37, 48499),

Gene: Maupel_101 Start: 67344, Stop: 67529, Start Num: 29
Candidate Starts for Maupel_101:
(Start: 29 @67344 has 13 MA's),

Gene: MeganTheeKilla_99 Start: 66705, Stop: 66854, Start Num: 29
Candidate Starts for MeganTheeKilla_99:
(Start: 29 @66705 has 13 MA's),

Gene: Michkear_63 Start: 43369, Stop: 43527, Start Num: 30
Candidate Starts for Michkear_63:
(Start: 30 @43369 has 11 MA's),

Gene: Mindy_73 Start: 46760, Stop: 46933, Start Num: 26
Candidate Starts for Mindy_73:
(Start: 26 @46760 has 83 MA's), (37, 46811),

Gene: MiniMommy_60 Start: 40144, Stop: 40290, Start Num: 30
Candidate Starts for MiniMommy_60:
(Start: 30 @40144 has 11 MA's), (44, 40222),

Gene: MissSwiss_57 Start: 37199, Stop: 37351, Start Num: 27
Candidate Starts for MissSwiss_57:
(Start: 27 @37199 has 6 MA's),

Gene: Moab_100 Start: 69731, Stop: 69916, Start Num: 30
Candidate Starts for Moab_100:
(Start: 30 @69731 has 11 MA's), (42, 69803),

Gene: MollyToe_69 Start: 46514, Stop: 46687, Start Num: 26
Candidate Starts for MollyToe_69:
(Start: 26 @46514 has 83 MA's), (37, 46565),

Gene: Mudpuppy_52 Start: 38242, Stop: 38436, Start Num: 22
Candidate Starts for Mudpuppy_52:
(Start: 22 @38242 has 30 MA's), (47, 38368),

Gene: Murica_77 Start: 48619, Stop: 48792, Start Num: 26
Candidate Starts for Murica_77:
(Start: 26 @48619 has 83 MA's), (37, 48670),

Gene: Myrale_74 Start: 48313, Stop: 48486, Start Num: 26
Candidate Starts for Myrale_74:
(Start: 26 @48313 has 83 MA's), (37, 48364),

Gene: Nala_76 Start: 48177, Stop: 48350, Start Num: 26
Candidate Starts for Nala_76:
(Start: 26 @48177 has 83 MA's), (37, 48228),

Gene: NelitzaMV_72 Start: 47259, Stop: 47432, Start Num: 26
Candidate Starts for NelitzaMV_72:
(Start: 26 @47259 has 83 MA's), (37, 47310),

Gene: NiceHouse_187 Start: 105087, Stop: 105269, Start Num: 28
Candidate Starts for NiceHouse_187:
(Start: 28 @105087 has 3 MA's), (33, 105102), (39, 105138), (41, 105147), (42, 105162),

Gene: Nimrod_75 Start: 48880, Stop: 49053, Start Num: 26
Candidate Starts for Nimrod_75:
(Start: 26 @48880 has 83 MA's), (37, 48931),

Gene: Niobe_56 Start: 39544, Stop: 39729, Start Num: 23
Candidate Starts for Niobe_56:
(Start: 23 @39544 has 5 MA's),

Gene: Nitro_58 Start: 40465, Stop: 40653, Start Num: 23
Candidate Starts for Nitro_58:
(Start: 23 @40465 has 5 MA's),

Gene: NoSleep_75 Start: 47514, Stop: 47687, Start Num: 26
Candidate Starts for NoSleep_75:
(Start: 26 @47514 has 83 MA's), (37, 47565),

Gene: NonchalantPear_74 Start: 47367, Stop: 47540, Start Num: 26
Candidate Starts for NonchalantPear_74:
(Start: 26 @47367 has 83 MA's), (37, 47418),

Gene: Nova53_185 Start: 97990, Stop: 98160, Start Num: 32
Candidate Starts for Nova53_185:
(Start: 28 @97978 has 3 MA's), (Start: 32 @97990 has 3 MA's), (41, 98038), (42, 98053), (47, 98083),

Gene: ObiToo_61 Start: 39721, Stop: 39915, Start Num: 22

Candidate Starts for ObiToo_61:
(Start: 22 @39721 has 30 MA's), (47, 39847), (49, 39874),

Gene: Origami_56 Start: 39121, Stop: 39309, Start Num: 19
Candidate Starts for Origami_56:
(Start: 19 @39121 has 10 MA's), (Start: 30 @39163 has 11 MA's), (44, 39241),

Gene: OrionPax_73 Start: 47265, Stop: 47438, Start Num: 26
Candidate Starts for OrionPax_73:
(Start: 26 @47265 has 83 MA's), (37, 47316),

Gene: PandaPo_57 Start: 37207, Stop: 37359, Start Num: 27
Candidate Starts for PandaPo_57:
(Start: 27 @37207 has 6 MA's),

Gene: Pat3_72 Start: 46423, Stop: 46596, Start Num: 26
Candidate Starts for Pat3_72:
(Start: 26 @46423 has 83 MA's), (37, 46474),

Gene: Patelgo_99 Start: 68817, Stop: 69002, Start Num: 30
Candidate Starts for Patelgo_99:
(Start: 30 @68817 has 11 MA's), (42, 68889),

Gene: Petra64142_78 Start: 49110, Stop: 49283, Start Num: 26
Candidate Starts for Petra64142_78:
(Start: 26 @49110 has 83 MA's), (37, 49161),

Gene: Phives_59 Start: 40511, Stop: 40693, Start Num: 22
Candidate Starts for Phives_59:
(5, 40142), (Start: 22 @40511 has 30 MA's),

Gene: Phredrick_100 Start: 66672, Stop: 66857, Start Num: 29
Candidate Starts for Phredrick_100:
(Start: 29 @66672 has 13 MA's),

Gene: Pixelle_57 Start: 40947, Stop: 41132, Start Num: 22
Candidate Starts for Pixelle_57:
(6, 40599), (Start: 22 @40947 has 30 MA's),

Gene: Porky_73 Start: 47084, Stop: 47257, Start Num: 26
Candidate Starts for Porky_73:
(Start: 26 @47084 has 83 MA's), (37, 47135),

Gene: Powerpuff_57 Start: 39483, Stop: 39683, Start Num: 20
Candidate Starts for Powerpuff_57:
(Start: 20 @39483 has 5 MA's), (47, 39615),

Gene: Ptowny_71 Start: 46553, Stop: 46726, Start Num: 26
Candidate Starts for Ptowny_71:
(Start: 26 @46553 has 83 MA's), (37, 46604),

Gene: Pumpkins_54 Start: 39127, Stop: 39321, Start Num: 22
Candidate Starts for Pumpkins_54:

(Start: 22 @39127 has 30 MA's),

Gene: Quallification_75 Start: 48299, Stop: 48472, Start Num: 26
Candidate Starts for Quallification_75:
(Start: 26 @48299 has 83 MA's), (37, 48350),

Gene: Reedo_54 Start: 36267, Stop: 36416, Start Num: 27
Candidate Starts for Reedo_54:
(Start: 27 @36267 has 6 MA's), (44, 36342),

Gene: Rimmer_75 Start: 48004, Stop: 48177, Start Num: 26
Candidate Starts for Rimmer_75:
(Start: 26 @48004 has 83 MA's), (37, 48055),

Gene: Saints25_73 Start: 47242, Stop: 47415, Start Num: 26
Candidate Starts for Saints25_73:
(Start: 26 @47242 has 83 MA's), (37, 47293),

Gene: Schaffner_55 Start: 38968, Stop: 39162, Start Num: 22
Candidate Starts for Schaffner_55:
(12, 38773), (Start: 22 @38968 has 30 MA's),

Gene: SeresaTree_98 Start: 67393, Stop: 67587, Start Num: 24
Candidate Starts for SeresaTree_98:
(Start: 24 @67393 has 1 MA's), (38, 67453), (42, 67480),

Gene: ShakeItOph_60 Start: 40141, Stop: 40287, Start Num: 30
Candidate Starts for ShakeItOph_60:
(Start: 30 @40141 has 11 MA's), (44, 40219),

Gene: Sham_94 Start: 67538, Stop: 67780, Start Num: 17
Candidate Starts for Sham_94:
(Start: 17 @67538 has 2 MA's), (Start: 24 @67583 has 1 MA's), (38, 67640), (42, 67667),

Gene: ShamWow_74 Start: 48154, Stop: 48327, Start Num: 26
Candidate Starts for ShamWow_74:
(Start: 26 @48154 has 83 MA's), (37, 48205),

Gene: ShereKhan_73 Start: 48223, Stop: 48396, Start Num: 26
Candidate Starts for ShereKhan_73:
(Start: 26 @48223 has 83 MA's), (37, 48274),

Gene: Simpliphy_73 Start: 47232, Stop: 47405, Start Num: 26
Candidate Starts for Simpliphy_73:
(Start: 26 @47232 has 83 MA's), (37, 47283),

Gene: Simpson_57 Start: 38386, Stop: 38586, Start Num: 20
Candidate Starts for Simpson_57:
(2, 37837), (Start: 20 @38386 has 5 MA's), (47, 38518),

Gene: SirDuracell_73 Start: 46518, Stop: 46691, Start Num: 26
Candidate Starts for SirDuracell_73:
(Start: 26 @46518 has 83 MA's), (37, 46569),

Gene: Skelbel_57 Start: 39544, Stop: 39729, Start Num: 23
Candidate Starts for Skelbel_57:
(Start: 23 @39544 has 5 MA's),

Gene: Snek_57 Start: 37403, Stop: 37558, Start Num: 27
Candidate Starts for Snek_57:
(Start: 27 @37403 has 6 MA's), (50, 37541),

Gene: Soondubu_51 Start: 41018, Stop: 41170, Start Num: 31
Candidate Starts for Soondubu_51:
(Start: 31 @41018 has 1 MA's), (41, 41060), (50, 41150),

Gene: SophKB_71 Start: 46910, Stop: 47083, Start Num: 26
Candidate Starts for SophKB_71:
(Start: 26 @46910 has 83 MA's), (37, 46961),

Gene: Sotrice96_75 Start: 47913, Stop: 48086, Start Num: 26
Candidate Starts for Sotrice96_75:
(Start: 26 @47913 has 83 MA's), (37, 47964),

Gene: SparkleGoddess_99 Start: 68222, Stop: 68407, Start Num: 30
Candidate Starts for SparkleGoddess_99:
(Start: 30 @68222 has 11 MA's), (42, 68294),

Gene: Stank_77 Start: 48171, Stop: 48344, Start Num: 26
Candidate Starts for Stank_77:
(Start: 26 @48171 has 83 MA's), (37, 48222),

Gene: Stigma_98 Start: 68230, Stop: 68415, Start Num: 30
Candidate Starts for Stigma_98:
(Start: 30 @68230 has 11 MA's), (42, 68302),

Gene: StolenFromERC_77 Start: 47953, Stop: 48126, Start Num: 26
Candidate Starts for StolenFromERC_77:
(Start: 26 @47953 has 83 MA's), (37, 48004),

Gene: StormChicken_76 Start: 48611, Stop: 48784, Start Num: 26
Candidate Starts for StormChicken_76:
(Start: 26 @48611 has 83 MA's), (37, 48662),

Gene: Subaru_55 Start: 39303, Stop: 39485, Start Num: 22
Candidate Starts for Subaru_55:
(11, 39096), (Start: 22 @39303 has 30 MA's),

Gene: Sue2_54 Start: 38086, Stop: 38286, Start Num: 18
Candidate Starts for Sue2_54:
(10, 37828), (Start: 18 @38086 has 1 MA's), (Start: 27 @38131 has 6 MA's), (Start: 32 @38143 has 3 MA's),

Gene: Sweetums_51 Start: 28762, Stop: 28980, Start Num: 19
Candidate Starts for Sweetums_51:
(Start: 19 @28762 has 10 MA's), (Start: 28 @28810 has 3 MA's), (33, 28825),

Gene: TBrady12_77 Start: 47652, Stop: 47825, Start Num: 26
Candidate Starts for TBrady12_77:
(Start: 26 @47652 has 83 MA's), (37, 47703),

Gene: Tallboi_56 Start: 39686, Stop: 39874, Start Num: 21
Candidate Starts for Tallboi_56:
(Start: 21 @39686 has 4 MA's),

Gene: Tbone_55 Start: 38934, Stop: 39128, Start Num: 22
Candidate Starts for Tbone_55:
(Start: 22 @38934 has 30 MA's), (47, 39060),

Gene: TeardropMSU_70 Start: 46900, Stop: 47073, Start Num: 26
Candidate Starts for TeardropMSU_70:
(Start: 26 @46900 has 83 MA's), (37, 46951),

Gene: Teaspoon_75 Start: 47794, Stop: 47967, Start Num: 26
Candidate Starts for Teaspoon_75:
(Start: 26 @47794 has 83 MA's), (37, 47845),

Gene: Teng_50 Start: 28666, Stop: 28884, Start Num: 19
Candidate Starts for Teng_50:
(Start: 19 @28666 has 10 MA's), (Start: 28 @28714 has 3 MA's), (33, 28729),

Gene: TforTroy_57 Start: 39052, Stop: 39246, Start Num: 22
Candidate Starts for TforTroy_57:
(12, 38854), (Start: 22 @39052 has 30 MA's), (47, 39178),

Gene: ThursdayNight_59 Start: 39681, Stop: 39881, Start Num: 22
Candidate Starts for ThursdayNight_59:
(Start: 22 @39681 has 30 MA's), (50, 39864),

Gene: Tian_56 Start: 40845, Stop: 41030, Start Num: 22
Candidate Starts for Tian_56:
(Start: 22 @40845 has 30 MA's),

Gene: Toto_72 Start: 48154, Stop: 48327, Start Num: 26
Candidate Starts for Toto_72:
(Start: 26 @48154 has 83 MA's), (37, 48205),

Gene: Trina_197 Start: 106567, Stop: 106749, Start Num: 28
Candidate Starts for Trina_197:
(Start: 28 @106567 has 3 MA's), (34, 106591), (41, 106627), (42, 106642), (50, 106720),

Gene: Tuck_58 Start: 40300, Stop: 40482, Start Num: 22
Candidate Starts for Tuck_58:
(Start: 22 @40300 has 30 MA's),

Gene: Tuco_75 Start: 48662, Stop: 48835, Start Num: 26
Candidate Starts for Tuco_75:
(Start: 26 @48662 has 83 MA's), (37, 48713),

Gene: TunaTartare_97 Start: 68701, Stop: 68943, Start Num: 17
Candidate Starts for TunaTartare_97:
(Start: 17 @68701 has 2 MA's), (Start: 24 @68746 has 1 MA's), (38, 68803), (42, 68830),

Gene: Turab_52 Start: 37635, Stop: 37826, Start Num: 21
Candidate Starts for Turab_52:
(7, 37329), (Start: 21 @37635 has 4 MA's),

Gene: Tutumahutu_56 Start: 38356, Stop: 38553, Start Num: 22
Candidate Starts for Tutumahutu_56:
(Start: 22 @38356 has 30 MA's), (47, 38485),

Gene: Tweety19_58 Start: 37403, Stop: 37558, Start Num: 27
Candidate Starts for Tweety19_58:
(Start: 27 @37403 has 6 MA's), (50, 37541),

Gene: Ukulele_69 Start: 47045, Stop: 47218, Start Num: 26
Candidate Starts for Ukulele_69:
(Start: 26 @47045 has 83 MA's), (37, 47096),

Gene: VResidence_55 Start: 37492, Stop: 37677, Start Num: 22
Candidate Starts for VResidence_55:
(Start: 22 @37492 has 30 MA's),

Gene: VroomVroom_56 Start: 39271, Stop: 39462, Start Num: 19
Candidate Starts for VroomVroom_56:
(3, 38755), (9, 39007), (14, 39190), (Start: 19 @39271 has 10 MA's), (Start: 30 @39316 has 11 MA's), (44, 39394), (48, 39427),

Gene: Warda_56 Start: 38671, Stop: 38853, Start Num: 22
Candidate Starts for Warda_56:
(Start: 22 @38671 has 30 MA's),

Gene: WaterT_74 Start: 43421, Stop: 43254, Start Num: 28
Candidate Starts for WaterT_74:
(15, 43508), (Start: 28 @43421 has 3 MA's), (35, 43391), (36, 43382), (46, 43319), (49, 43289), (50, 43268),

Gene: Westy_103 Start: 69242, Stop: 69427, Start Num: 30
Candidate Starts for Westy_103:
(Start: 30 @69242 has 11 MA's), (42, 69314),

Gene: Yang_57 Start: 39052, Stop: 39246, Start Num: 22
Candidate Starts for Yang_57:
(Start: 22 @39052 has 30 MA's), (50, 39226),

Gene: YesChef_55 Start: 38342, Stop: 38542, Start Num: 20
Candidate Starts for YesChef_55:
(Start: 20 @38342 has 5 MA's), (47, 38474),

Gene: xkcd_77 Start: 48804, Stop: 48977, Start Num: 26
Candidate Starts for xkcd_77:
(Start: 26 @48804 has 83 MA's), (37, 48855),