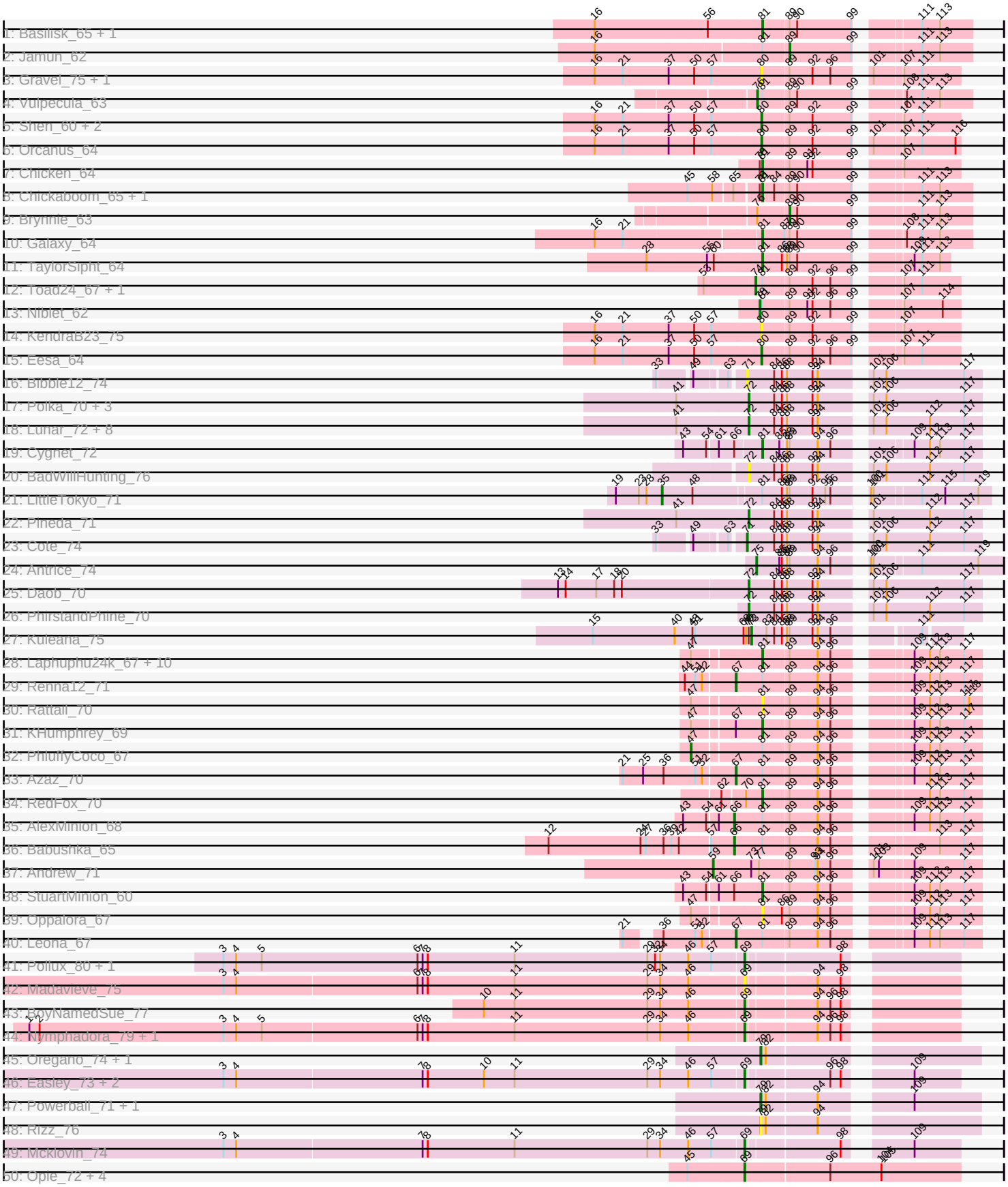
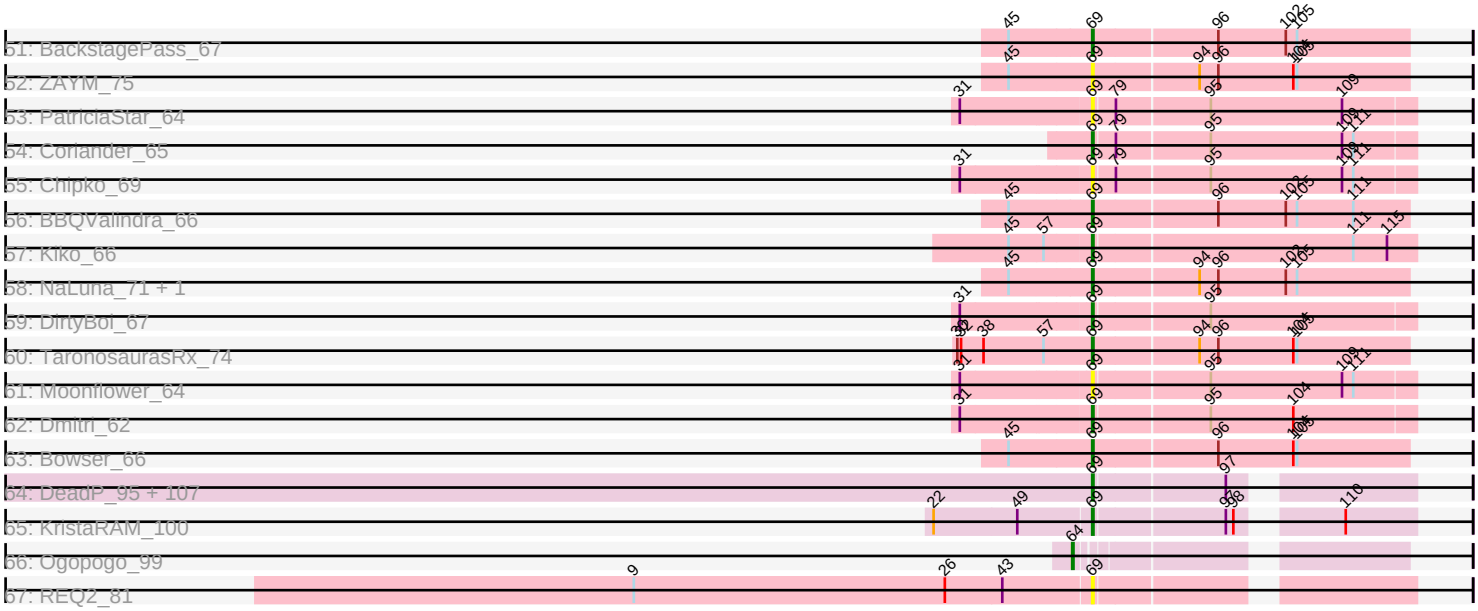
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1: Basilisk_65 + 1
2: Jamun_62
3: Gravel_75 + 1
4: Vulpecula_63
5: Shen_60 + 2
6: Orcanus_64
7: Chicken_64
8: Chickaboom_65 + 1
9: Brynnie_63
10: Galaxy_64
11: TaylorSipht_64
12: Toad24_67 + 1
13: Niblet_62
14: KendraB23_75
15: Eesa_64
16: Bibble12_74
17: Polka_70 + 3
18: Lunar_72 + 8
19: Cygnet_72
20: BadWillHunting_76
21: LittleTokyo_71
22: Pineda_71
23: Cole_74
24: Antrice_74
25: Daob_70
26: PhirstandPhine_70
27: Kuleana_75
28: Laphuphu24k_67 + 10
29: Renna12_71
30: Rattail_70
31: KHumphrey_69
32: PhuffyCoco_67
33: Azaz_70
34: RedFox_70
35: AlexMinion_68
36: Babushka_65
37: Andrew_71
38: StuartMinion_60
39: Oppalora_67
40: Leona_67
41: Pollux_80 + 1
42: Madavieve_75
43: BoyNamedSue_77
44: Nymphadora_79 + 1
45: Oregano_74 + 1
46: Easley_73 + 2
47: Powerball_71 + 1
48: Rizz_76
49: Micklovin_74
50: Opie_72 + 4

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51: BackstagePass_67
52: ZAYM_75
53: PatriciaStar_64
54: Coriander_65
55: Chipko_69
56: BBQValindra_66
57: Kiko_66
58: NaLuna_71 + 1
59: DirtyBoi_67
60: TaronosaurasRx_74
61: Moonflower_64
62: Dmitri_62
63: Bowser_66
64: DeadP_95 + 107
65: KristaRAM_100
66: Ogopogo_99
67: REQ2_81

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 345383 Report

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

Pham number 345383 has 212 members, 32 are drafts.

Phages represented in each track:
• Track 1 : Basilisk_65, Ruchi_63
• Track 2 : Jamun_62
• Track 3 : Gravel_75, Pelletreau_75
• Track 4 : Vulpecula_63
• Track 5 : Shen_60, Zixiang_64, Amanises_67
• Track 6 : Orcanus_64
• Track 7 : Chicken_64
• Track 8 : Chickaboom_65, WileyE_65
• Track 9 : Brynnie_63
• Track 10 : Galaxy_64
• Track 11 : TaylorSipht_64
• Track 12 : Toad24_67, Westrich_73
• Track 13 : Niblet_62
• Track 14 : KendraB23_75
• Track 15 : Eesa_64
• Track 16 : Bibble12_74
• Track 17 : Polka_70, GramZayde_72, HannahPhantana_71, OtsoOtso_71
• Track 18 : Lunar_72, Damocles_73, Jerole_69, Kepler_74, Amelia_70, Bedetta_74, Melons_72, Coral_71, Colusalem_70
• Track 19 : Cygnet_72
• Track 20 : BadWillHunting_76
• Track 21 : LittleTokyo_71
• Track 22 : Pineda_71
• Track 23 : Cote_74
• Track 24 : Antrice_74
• Track 25 : Daob_70
• Track 26 : PhirstandPhine_70
• Track 27 : Kuleana_75
• Track 28 : Laphuphu24k_67, Glotell_70, Fingolfin_70, Atlantica_69, DanHam62_69, Amphitrite_68, AmiCi24_67, Juno112_68, AdoptaAdorbs_67, HamCheese_68, Camara_68
• Track 29 : Renna12_71
• Track 30 : Rattail_70
• Track 31 : KHumphrey_69
• Track 32 : PhluffyCoco_67
• Track 33 : Azaz_70
• Track 34 : RedFox_70

• Track 35 : AlexMinion_68
• Track 36 : Babushka_65
• Track 37 : Andrew_71
• Track 38 : StuartMinion_60
• Track 39 : Oppalora_67
• Track 40 : Leona_67
• Track 41 : Pollux_80, Marteena_76
• Track 42 : Madavieve_75
• Track 43 : BoyNamedSue_77
• Track 44 : Nymphadora_79, Hugley_77
• Track 45 : Oregano_74, Suerte_69
• Track 46 : Easley_73, Beenie_69, Invectra_78
• Track 47 : Powerball_71, Dorito_69
• Track 48 : Rizz_76
• Track 49 : Mcklovin_74
• Track 50 : Opie_72, Eyes_64, MagicMan_69, Jecs_72, Schnabeltier_70
• Track 51 : BackstagePass_67
• Track 52 : ZAYM_75
• Track 53 : PatriciaStar_64
• Track 54 : Coriander_65
• Track 55 : Chipko_69
• Track 56 : BBQValindra_66
• Track 57 : Kiko_66
• Track 58 : NaLuna_71, HannahD_69
• Track 59 : DirtyBoi_67
• Track 60 : TaronosaurasRx_74
• Track 61 : Moonflower_64
• Track 62 : Dmitri_62
• Track 63 : Bowser_66
• Track 64 : DeadP_95, Wachhund_92, Geralt_87, MulchExplorer_94, NewHope4_99, Kenuha5_87, BuzzLyseyear_101, Royals2015_97, Eish_100, BodEinwohner17_104, Spikelee_95, GigiOuiOui_89, IMpilo_92, Boomer_97, Madiba_93, Galactic_95, Mahavrat_90, IbOuu_85, WillSterrel_92, DaddyRickover_96, Tweety_95, Inventum_92, Ms6_96, Enzomatic_104, DoRead_96, Seagreen_95, Hamulus_95, RitaG_93, PhlipPhlop_84, Juice456_93, Slim_97, Ovechkin_98, Florinda_106, DirtMcgirt_95, Polka14_98, Doomphist_99, Squirty_94, Girafales_103, IrishSherpFalk_94, Dorothy_95, Empress_94, Ardmore_79, UncleRicky_94, Polo2Bam_103, LittleShirley_102, Fastidio_98, KingMidas_94, Grimmer_100, Lorde_97, Phatniss_92, Deb65_87, Emma_99, Byougenkin_92, Leperchaun_96, PMC_93, Lucia_94, Poenanya_98, RockyHorror_98, Nimbo_86, Enby_98, Medindi_99, Sassafras_96, Moonbeam_97, EmiMonkey_83, Hegedechwinu_101, StAnnes_98, RedBird_95, Ramsey_99, Taj_101, MilleniumForce_94, Hades_91, Scottish_94, Juniper1_88, JoeyJr_97, XFactor_85, Filuzino_94, Kimberlium_96, OldBen_91, Emmaloid_97, SimranZ1_90, Peridot_98, GUmbie_93, Starcevich_96, DaWorst_94, Harley_97, Cornucopia_94, Daenerys_92, Drago_93, Jant_100, Rockne_97, CaptainTrips_96, PHappiness_94, DLane_94, VRedHorse_95, Violac_96, Quico_103, Ibhubesi_92, Stap_89, SeaLumen_100, Phalconet_95, Estave1_102, DotProduct_88, Fruitloop_92, Wee_98, Vivum_92, PhesterPhotato_98, LunaBlu_98, QuickMath_95
• Track 65 : KristaRAM_100
• Track 66 : Ogopogo_99
• Track 67 : REQ2_81

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

The start number called the most often in the published annotations is 69, it was called in 121 of the 180 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ardmore_79, BBQValindra_66, BackstagePass_67, Beenie_69, BodEinwohner17_104, Boomer_97, Bowser_66, BoyNamedSue_77, BuzzLyseyear_101, Byougenkin_92, CaptainTrips_96, Chipko_69, Coriander_65, Cornucopia_94, DLane_94, DaWorst_94, DaddyRickover_96, Daenerys_92, DeadP_95, Deb65_87, DirtMcgirt_95, DirtyBoi_67, Dmitri_62, DoRead_96, Doomphist_99, Dorothy_95, DotProduct_88, Drago_93, Easley_73, Eish_100, EmiMonkey_83, Emma_99, Emmaloid_97, Empress_94, Enby_98, Enzomatic_104, Estave1_102, Eyes_64, Fastidio_98, Filuzino_94, Florinda_106, Fruitloop_92, GUmbie_93, Galactic_95, Geralt_87, GigiOuiOui_89, Girafales_103, Grimmer_100, Hades_91, Hamulus_95, HannahD_69, Harley_97, Hegedechwinu_101, Hugley_77, IMpilo_92, IbOuu_85, Ibhubesi_92, Invectra_78, Inventum_92, IrishSherpFalk_94, Jant_100, Jecs_72, JoeyJr_97, Juice456_93, Juniper1_88, Kenuha5_87, Kiko_66, Kimberlium_96, KingMidas_94, KristaRAM_100, Leperchaun_96, LittleShirley_102, Lorde_97, Lucia_94, LunaBlu_98, Madavieve_75, Madiba_93, MagicMan_69, Mahavrat_90, Marteena_76, Mcklovin_74, Medindi_99, MilleniumForce_94, Moonbeam_97, Moonflower_64, Ms6_96, MulchExplorer_94, NaLuna_71, NewHope4_99, Nimbo_86, Nymphadora_79, OldBen_91, Opie_72, Ovechkin_98, PHappiness_94, PMC_93, PatriciaStar_64, Peridot_98, Phalconet_95, Phatniss_92, PhesterPhotato_98, PhlipPhlop_84, Poenanya_98, Polka14_98, Pollux_80, Polo2Bam_103, QuickMath_95, Quico_103, REQ2_81, Ramsey_99, RedBird_95, RitaG_93, Rockne_97, RockyHorror_98, Royals2015_97, Sassafras_96, Schnabeltier_70, Scottish_94, SeaLumen_100, Seagreen_95, SimranZ1_90, Slim_97, Spikelee_95, Squirty_94, StAnnes_98, Stap_89, Starcevich_96, Taj_101, TaronosaurasRx_74, Tweety_95, UncleRicky_94, VRedHorse_95, Violac_96, Vivum_92, Wachhund_92, Wee_98, WillSterrel_92, XFactor_85, ZAYM_75,

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

Genes that do not have the "Most Annotated" start:
• AdoptaAdorbs_67, AlexMinion_68, Amanises_67, Amelia_70, AmiCi24_67, Amphitrite_68, Andrew_71, Antrice_74, Atlantica_69, Azaz_70, Babushka_65, BadWillHunting_76, Basilisk_65, Bedetta_74, Bibble12_74, Brynnie_63, Camara_68, Chickaboom_65, Chicken_64, Colusalem_70, Coral_71, Cote_74, Cygnet_72, Damocles_73, DanHam62_69, Daob_70, Dorito_69, Eesa_64, Fingolfin_70, Galaxy_64, Glotell_70, GramZayde_72, Gravel_75, HamCheese_68, HannahPhantana_71, Jamun_62, Jerole_69, Juno112_68, KHumphrey_69, KendraB23_75, Kepler_74, Kuleana_75, Laphuphu24k_67, Leona_67, LittleTokyo_71, Lunar_72, Melons_72, Niblet_62, Ogopogo_99, Oppalora_67, Orcanus_64, Oregano_74, OtsoOtso_71, Pelletreau_75, PhirstandPhine_70, PhluffyCoco_67, Pineda_71, Polka_70, Powerball_71, Rattail_70, RedFox_70, Renna12_71, Rizz_76, Ruchi_63, Shen_60, StuartMinion_60, Suerte_69, TaylorSipht_64, Toad24_67, Vulpecula_63, Westrich_73, WileyE_65, Zixiang_64,

Summary by start number:

Start 35:
• Found in 1 of 212 (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: LittleTokyo_71 (AS2),

Start 47:
• Found in 15 of 212 (7.1%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 6.7% of time when present
• Phage (with cluster) where this start called: PhluffyCoco_67 (AS3),

Start 59:
• Found in 1 of 212 (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: Andrew_71 (AS3),

Start 64:
• Found in 1 of 212 (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: Ogopogo_99 (F1),

Start 66:
• Found in 4 of 212 (1.9%) of genes in pham
• Manual Annotations of this start: 2 of 180
• Called 50.0% of time when present
• Phage (with cluster) where this start called: AlexMinion_68 (AS3), Babushka_65 (AS3),

Start 67:
• Found in 4 of 212 (1.9%) 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: Azaz_70 (AS3), Leona_67 (AS3), Renna12_71 (AS3),

Start 69:
• Found in 139 of 212 (65.6%) of genes in pham
• Manual Annotations of this start: 121 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ardmore_79 (F1), BBQValindra_66 (DB), BackstagePass_67 (DB), Beenie_69 (CZ4), BodEinwohner17_104 (F1), Boomer_97 (F1), Bowser_66 (DB), BoyNamedSue_77 (CZ1), BuzzLyseyear_101 (F1), Byougenkin_92 (F1), CaptainTrips_96 (F1), Chipko_69 (DB), Coriander_65 (DB), Cornucopia_94 (F1), DLane_94 (F1), DaWorst_94 (F1), DaddyRickover_96 (F1), Daenerys_92 (F1), DeadP_95 (F1), Deb65_87 (F1), DirtMcgirt_95 (F1), DirtyBoi_67 (DB), Dmitri_62 (DB), DoRead_96 (F1), Doomphist_99 (F1), Dorothy_95 (F1), DotProduct_88 (F1), Drago_93 (F1), Easley_73 (CZ4), Eish_100 (F1), EmiMonkey_83 (F1), Emma_99 (F1), Emmaloid_97 (F1), Empress_94 (F1), Enby_98

(F1), Enzomatic_104 (F1), Estave1_102 (F1), Eyes_64 (DB), Fastidio_98 (F1), Filuzino_94 (F1), Florinda_106 (F1), Fruitloop_92 (F1), GUmbie_93 (F1), Galactic_95 (F1), Geralt_87 (F1), GigiOuiOui_89 (F1), Girafales_103 (F1), Grimmer_100 (F1), Hades_91 (F1), Hamulus_95 (F1), HannahD_69 (DB), Harley_97 (F1), Hegedechwinu_101 (F1), Hugley_77 (CZ1), IMpilo_92 (F1), IbOuu_85 (F1), Ibhubesi_92 (F1), Invectra_78 (CZ4), Inventum_92 (F1), IrishSherpFalk_94 (F1), Jant_100 (F1), Jecs_72 (DB), JoeyJr_97 (F1), Juice456_93 (F1), Juniper1_88 (F1), Kenuha5_87 (F1), Kiko_66 (DB), Kimberlium_96 (F1), KingMidas_94 (F1), KristaRAM_100 (F1), Leperchaun_96 (F1), LittleShirley_102 (F1), Lorde_97 (F1), Lucia_94 (F1), LunaBlu_98 (F1), Madavieve_75 (CZ1), Madiba_93 (F1), MagicMan_69 (DB), Mahavrat_90 (F1), Marteena_76 (CY1), Mcklovin_74 (CZ4), Medindi_99 (F1), MilleniumForce_94 (F1), Moonbeam_97 (F1), Moonflower_64 (DB), Ms6_96 (F1), MulchExplorer_94 (F1), NaLuna_71 (DB), NewHope4_99 (F1), Nimbo_86 (F1), Nymphadora_79 (CZ1), OldBen_91 (F1), Opie_72 (DB), Ovechkin_98 (F1), PHappiness_94 (F1), PMC_93 (F1), PatriciaStar_64 (DB), Peridot_98 (F1), Phalconet_95 (F1), Phatniss_92 (F1), PhesterPhotato_98 (F1), PhlipPhlop_84 (F1), Poenanya_98 (F1), Polka14_98 (F1), Pollux_80 (CY1), Polo2Bam_103 (F1), QuickMath_95 (F1), Quico_103 (F1), REQ2_81 (singleton), Ramsey_99 (F1), RedBird_95 (F1), RitaG_93 (F1), Rockne_97 (F1), RockyHorror_98 (F1), Royals2015_97 (F1), Sassafras_96 (F1), Schnabeltier_70 (DB), Scottish_94 (F1), SeaLumen_100 (F1), Seagreen_95 (F1), SimranZ1_90 (F1), Slim_97 (F1), Spikelee_95 (F1), Squirty_94 (F3), StAnnes_98 (F1), Stap_89 (F1), Starcevich_96 (F1), Taj_101 (F1), TaronosaurasRx_74 (DB), Tweety_95 (F1), UncleRicky_94 (F1), VRedHorse_95 (F1), Violac_96 (F1), Vivum_92 (F1), Wachhund_92 (F1), Wee_98 (F1), WillSterrel_92 (F1), XFactor_85 (F1), ZAYM_75 (DB),

Start 71:
• Found in 2 of 212 (0.9%) 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: Bibble12_74 (AS2), Cote_74 (AS2),

Start 72:
• Found in 18 of 212 (8.5%) of genes in pham
• Manual Annotations of this start: 13 of 180
• Called 94.4% of time when present
• Phage (with cluster) where this start called: Amelia_70 (AS2), BadWillHunting_76 (AS2), Bedetta_74 (AS2), Colusalem_70 (AS2), Coral_71 (AS2), Damocles_73 (AS2), Daob_70 (AS2), GramZayde_72 (AS2), HannahPhantana_71 (AS2), Jerole_69 (AS2), Kepler_74 (AS2), Lunar_72 (AS2), Melons_72 (AS2), OtsoOtso_71 (AS2), PhirstandPhine_70 (AS2), Pineda_71 (AS2), Polka_70 (AS2),

Start 73:
• Found in 2 of 212 (0.9%) 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: Kuleana_75 (AS2),

Start 74:
• Found in 2 of 212 (0.9%) 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: Toad24_67 (AS1), Westrich_73 (AS1),

Start 75:
• Found in 1 of 212 (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: Antrice_74 (AS2),

Start 76:
• Found in 2 of 212 (0.9%) 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: Vulpecula_63 (AS1),

Start 78:
• Found in 4 of 212 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 180
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Niblet_62 (AS1),

Start 79:
• Found in 8 of 212 (3.8%) of genes in pham
• Manual Annotations of this start: 4 of 180
• Called 62.5% of time when present
• Phage (with cluster) where this start called: Dorito_69 (CZ4), Oregano_74 (CZ4), Powerball_71 (CZ4), Rizz_76 (CZ4), Suerte_69 (CZ4),

Start 80:
• Found in 8 of 212 (3.8%) 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: Amanises_67 (AS1), Eesa_64 (AS1), Gravel_75 (AS1), KendraB23_75 (AS1), Orcanus_64 (AS1), Pelletreau_75 (AS1), Shen_60 (AS1), Zixiang_64 (AS1),

Start 81:
• Found in 36 of 212 (17.0%) of genes in pham
• Manual Annotations of this start: 20 of 180
• Called 66.7% of time when present
• Phage (with cluster) where this start called: AdoptaAdorbs_67 (AS3), AmiCi24_67 (AS3), Amphitrite_68 (AS3), Atlantica_69 (AS3), Basilisk_65 (AS1), Camara_68 (AS3), Chickaboom_65 (AS1), Chicken_64 (AS1), Cygnet_72 (AS2), DanHam62_69 (AS3), Fingolfin_70 (AS3), Galaxy_64 (AS1), Glotell_70 (AS3), HamCheese_68 (AS3), Juno112_68 (AS3), KHumphrey_69 (AS3), Laphuphu24k_67 (AS3), Oppalora_67 (AS3), Rattail_70 (AS3), RedFox_70 (AS3), Ruchi_63 (AS1), StuartMinion_60 (AS3), TaylorSipht_64 (AS1), WileyE_65 (AS1),

Start 89:
• Found in 48 of 212 (22.6%) of genes in pham
• Manual Annotations of this start: 2 of 180
• Called 4.2% of time when present
• Phage (with cluster) where this start called: Brynnie_63 (AS1), Jamun_62 (AS1),

Summary by clusters:

There are 10 clusters represented in this pham: AS3, F1, AS1, F3, AS2, CZ1, DB, singleton, CZ4, CY1,

Info for manual annotations of cluster AS1:
•Start number 74 was manually annotated 1 time for cluster AS1.
•Start number 76 was manually annotated 1 time for cluster AS1.
•Start number 78 was manually annotated 1 time for cluster AS1.
•Start number 80 was manually annotated 5 times for cluster AS1.
•Start number 81 was manually annotated 7 times for cluster AS1.
•Start number 89 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 35 was manually annotated 1 time for cluster AS2.
•Start number 71 was manually annotated 1 time for cluster AS2.
•Start number 72 was manually annotated 13 times for cluster AS2.
•Start number 73 was manually annotated 1 time for cluster AS2.
•Start number 75 was manually annotated 1 time for cluster AS2.
•Start number 81 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 47 was manually annotated 1 time for cluster AS3.
•Start number 59 was manually annotated 1 time for cluster AS3.
•Start number 66 was manually annotated 2 times for cluster AS3.
•Start number 67 was manually annotated 3 times for cluster AS3.
•Start number 81 was manually annotated 12 times for cluster AS3.

Info for manual annotations of cluster CY1:
•Start number 69 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ1:
•Start number 69 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ4:
•Start number 69 was manually annotated 4 times for cluster CZ4.
•Start number 79 was manually annotated 4 times for cluster CZ4.

Info for manual annotations of cluster DB:
•Start number 69 was manually annotated 13 times for cluster DB.

Info for manual annotations of cluster F1:
•Start number 64 was manually annotated 1 time for cluster F1.
•Start number 69 was manually annotated 99 times for cluster F1.

Info for manual annotations of cluster F3:
•Start number 69 was manually annotated 1 time for cluster F3.

Gene Information:

Gene: AdoptaAdorbs_67 Start: 37524, Stop: 37748, Start Num: 81
Candidate Starts for AdoptaAdorbs_67:

(Start: 47 @37452 has 1 MA's), (Start: 81 @37524 has 20 MA's), (Start: 89 @37551 has 2 MA's), (94, 37584), (96, 37599), (109, 37671), (112, 37689), (113, 37701), (117, 37728),

Gene: AlexMinion_68 Start: 37444, Stop: 37698, Start Num: 66
Candidate Starts for AlexMinion_68:
(43, 37390), (54, 37417), (61, 37426), (Start: 66 @37444 has 2 MA's), (Start: 81 @37474 has 20 MA's), (Start: 89 @37501 has 2 MA's), (94, 37534), (96, 37549), (109, 37621), (112, 37639), (113, 37651), (117, 37678),

Gene: Amanises_67 Start: 39009, Stop: 39209, Start Num: 80
Candidate Starts for Amanises_67:
(16, 38820), (21, 38853), (37, 38907), (50, 38937), (57, 38955), (Start: 80 @39009 has 5 MA's), (Start: 89 @39036 has 2 MA's), (92, 39063), (99, 39108), (107, 39144), (111, 39165),

Gene: Amelia_70 Start: 37346, Stop: 37591, Start Num: 72
Candidate Starts for Amelia_70:
(41, 37262), (Start: 72 @37346 has 13 MA's), (84, 37373), (86, 37382), (88, 37385), (92, 37415), (94, 37421), (101, 37466), (106, 37481), (112, 37532), (117, 37571),

Gene: AmiCi24_67 Start: 37633, Stop: 37857, Start Num: 81
Candidate Starts for AmiCi24_67:
(Start: 47 @37561 has 1 MA's), (Start: 81 @37633 has 20 MA's), (Start: 89 @37660 has 2 MA's), (94, 37693), (96, 37708), (109, 37780), (112, 37798), (113, 37810), (117, 37837),

Gene: Amphitrite_68 Start: 37538, Stop: 37762, Start Num: 81
Candidate Starts for Amphitrite_68:
(Start: 47 @37466 has 1 MA's), (Start: 81 @37538 has 20 MA's), (Start: 89 @37565 has 2 MA's), (94, 37598), (96, 37613), (109, 37685), (112, 37703), (113, 37715), (117, 37742),

Gene: Andrew_71 Start: 37949, Stop: 38230, Start Num: 59
Candidate Starts for Andrew_71:
(Start: 59 @37949 has 1 MA's), (Start: 73 @37994 has 1 MA's), (77, 38003), (Start: 89 @38033 has 2 MA's), (93, 38063), (94, 38066), (96, 38081), (101, 38111), (103, 38117), (109, 38153), (117, 38210),

Gene: Antrice_74 Start: 38347, Stop: 38604, Start Num: 75
Candidate Starts for Antrice_74:
(Start: 75 @38347 has 1 MA's), (85, 38371), (86, 38374), (88, 38377), (Start: 89 @38380 has 2 MA's), (94, 38413), (96, 38428), (100, 38455), (101, 38458), (111, 38509), (119, 38575),

Gene: Ardmore_79 Start: 47310, Stop: 47534, Start Num: 69
Candidate Starts for Ardmore_79:
(Start: 69 @47310 has 121 MA's), (97, 47409),

Gene: Atlantica_69 Start: 37635, Stop: 37859, Start Num: 81
Candidate Starts for Atlantica_69:
(Start: 47 @37563 has 1 MA's), (Start: 81 @37635 has 20 MA's), (Start: 89 @37662 has 2 MA's), (94, 37695), (96, 37710), (109, 37782), (112, 37800), (113, 37812), (117, 37839),

Gene: Azaz_70 Start: 37771, Stop: 38022, Start Num: 67
Candidate Starts for Azaz_70:
(21, 37645), (25, 37669), (36, 37693), (51, 37729), (52, 37735), (Start: 67 @37771 has 3 MA's), (Start: 81 @37798 has 20 MA's), (Start: 89 @37825 has 2 MA's), (94, 37858), (96, 37873), (109, 37945), (112, 37963), (113, 37975), (117, 38002),

Gene: BBQValindra_66 Start: 46200, Stop: 46448, Start Num: 69
Candidate Starts for BBQValindra_66:
(45, 46137), (Start: 69 @46200 has 121 MA's), (96, 46296), (102, 46350), (105, 46359), (111, 46404),

Gene: Babushka_65 Start: 37513, Stop: 37767, Start Num: 66
Candidate Starts for Babushka_65:
(12, 37303), (24, 37411), (27, 37417), (36, 37438), (39, 37447), (42, 37456), (57, 37489), (Start: 66 @37513 has 2 MA's), (Start: 81 @37543 has 20 MA's), (Start: 89 @37570 has 2 MA's), (94, 37603), (96, 37618), (113, 37720), (117, 37747),

Gene: BackstagePass_67 Start: 45548, Stop: 45796, Start Num: 69
Candidate Starts for BackstagePass_67:
(45, 45485), (Start: 69 @45548 has 121 MA's), (96, 45644), (102, 45698), (105, 45707),

Gene: BadWillHunting_76 Start: 37950, Stop: 38195, Start Num: 72
Candidate Starts for BadWillHunting_76:
(Start: 72 @37950 has 13 MA's), (84, 37977), (86, 37986), (88, 37989), (92, 38019), (94, 38025), (101, 38070), (106, 38085), (112, 38136), (117, 38175),

Gene: Basilisk_65 Start: 37815, Stop: 38027, Start Num: 81
Candidate Starts for Basilisk_65:
(16, 37620), (56, 37752), (Start: 81 @37815 has 20 MA's), (Start: 89 @37842 has 2 MA's), (90, 37851), (99, 37914), (111, 37971), (113, 37992),

Gene: Bedetta_74 Start: 37509, Stop: 37754, Start Num: 72
Candidate Starts for Bedetta_74:
(41, 37425), (Start: 72 @37509 has 13 MA's), (84, 37536), (86, 37545), (88, 37548), (92, 37578), (94, 37584), (101, 37629), (106, 37644), (112, 37695), (117, 37734),

Gene: Beenie_69 Start: 46326, Stop: 46541, Start Num: 69
Candidate Starts for Beenie_69:
(3, 45720), (4, 45735), (7, 45951), (8, 45957), (10, 46023), (11, 46059), (29, 46215), (34, 46230), (46, 46263), (57, 46290), (Start: 69 @46326 has 121 MA's), (96, 46416), (98, 46428), (109, 46488),

Gene: Bibble12_74 Start: 37919, Stop: 38164, Start Num: 71
Candidate Starts for Bibble12_74:
(33, 37838), (49, 37871), (63, 37904), (Start: 71 @37919 has 1 MA's), (84, 37946), (86, 37955), (88, 37958), (92, 37988), (94, 37994), (101, 38039), (106, 38054), (117, 38144),

Gene: BodEinwohner17_104 Start: 55362, Stop: 55586, Start Num: 69
Candidate Starts for BodEinwohner17_104:
(Start: 69 @55362 has 121 MA's), (97, 55461),

Gene: Boomer_97 Start: 53595, Stop: 53819, Start Num: 69
Candidate Starts for Boomer_97:
(Start: 69 @53595 has 121 MA's), (97, 53694),

Gene: Bowser_66 Start: 45894, Stop: 46142, Start Num: 69
Candidate Starts for Bowser_66:
(45, 45828), (Start: 69 @45894 has 121 MA's), (96, 45990), (104, 46050), (105, 46053),

Gene: BoyNamedSue_77 Start: 50965, Stop: 51180, Start Num: 69

Candidate Starts for BoyNamedSue_77:
(10, 50662), (11, 50698), (29, 50854), (34, 50869), (46, 50902), (Start: 69 @50965 has 121 MA's), (94, 51040), (96, 51055), (98, 51067),

Gene: Brynnie_63 Start: 37788, Stop: 37973, Start Num: 89
Candidate Starts for Brynnie_63:
(Start: 76 @37755 has 1 MA's), (Start: 89 @37788 has 2 MA's), (90, 37797), (99, 37860), (111, 37917), (113, 37938),

Gene: BuzzLyseyear_101 Start: 55092, Stop: 55316, Start Num: 69
Candidate Starts for BuzzLyseyear_101:
(Start: 69 @55092 has 121 MA's), (97, 55191),

Gene: Byougenkin_92 Start: 49932, Stop: 50156, Start Num: 69
Candidate Starts for Byougenkin_92:
(Start: 69 @49932 has 121 MA's), (97, 50031),

Gene: Camara_68 Start: 37526, Stop: 37750, Start Num: 81
Candidate Starts for Camara_68:
(Start: 47 @37454 has 1 MA's), (Start: 81 @37526 has 20 MA's), (Start: 89 @37553 has 2 MA's), (94, 37586), (96, 37601), (109, 37673), (112, 37691), (113, 37703), (117, 37730),

Gene: CaptainTrips_96 Start: 52498, Stop: 52722, Start Num: 69
Candidate Starts for CaptainTrips_96:
(Start: 69 @52498 has 121 MA's), (97, 52597),

Gene: Chickaboom_65 Start: 37923, Stop: 38135, Start Num: 81
Candidate Starts for Chickaboom_65:
(45, 37848), (58, 37875), (65, 37896), (Start: 78 @37920 has 1 MA's), (Start: 81 @37923 has 20 MA's), (84, 37935), (Start: 89 @37950 has 2 MA's), (90, 37959), (99, 38022), (111, 38079), (113, 38100),

Gene: Chicken_64 Start: 38731, Stop: 38931, Start Num: 81
Candidate Starts for Chicken_64:
(Start: 78 @38728 has 1 MA's), (Start: 81 @38731 has 20 MA's), (Start: 89 @38758 has 2 MA's), (91, 38779), (92, 38785), (99, 38830), (107, 38866),

Gene: Chipko_69 Start: 44960, Stop: 45208, Start Num: 69
Candidate Starts for Chipko_69:
(31, 44861), (Start: 69 @44960 has 121 MA's), (Start: 79 @44975 has 4 MA's), (95, 45047), (109, 45152), (111, 45161),

Gene: Colusalem_70 Start: 37323, Stop: 37568, Start Num: 72
Candidate Starts for Colusalem_70:
(41, 37239), (Start: 72 @37323 has 13 MA's), (84, 37350), (86, 37359), (88, 37362), (92, 37392), (94, 37398), (101, 37443), (106, 37458), (112, 37509), (117, 37548),

Gene: Coral_71 Start: 37538, Stop: 37783, Start Num: 72
Candidate Starts for Coral_71:
(41, 37454), (Start: 72 @37538 has 13 MA's), (84, 37565), (86, 37574), (88, 37577), (92, 37607), (94, 37613), (101, 37658), (106, 37673), (112, 37724), (117, 37763),

Gene: Coriander_65 Start: 43545, Stop: 43793, Start Num: 69
Candidate Starts for Coriander_65:

(Start: 69 @43545 has 121 MA's), (Start: 79 @43560 has 4 MA's), (95, 43632), (109, 43737), (111, 43746),

Gene: Cornucopia_94 Start: 50874, Stop: 51098, Start Num: 69
Candidate Starts for Cornucopia_94:
(Start: 69 @50874 has 121 MA's), (97, 50973),

Gene: Cote_74 Start: 38262, Stop: 38507, Start Num: 71
Candidate Starts for Cote_74:
(33, 38181), (49, 38214), (63, 38247), (Start: 71 @38262 has 1 MA's), (84, 38289), (86, 38298), (88, 38301), (92, 38331), (94, 38337), (101, 38382), (106, 38397), (112, 38448), (117, 38487),

Gene: Cygnet_72 Start: 38655, Stop: 38879, Start Num: 81
Candidate Starts for Cygnet_72:
(43, 38574), (54, 38601), (61, 38610), (Start: 66 @38628 has 2 MA's), (Start: 81 @38655 has 20 MA's), (85, 38673), (88, 38679), (Start: 89 @38682 has 2 MA's), (94, 38715), (96, 38730), (109, 38802), (112, 38820), (113, 38832), (117, 38859),

Gene: DLane_94 Start: 53780, Stop: 54004, Start Num: 69
Candidate Starts for DLane_94:
(Start: 69 @53780 has 121 MA's), (97, 53879),

Gene: DaWorst_94 Start: 52690, Stop: 52914, Start Num: 69
Candidate Starts for DaWorst_94:
(Start: 69 @52690 has 121 MA's), (97, 52789),

Gene: DaddyRickover_96 Start: 53556, Stop: 53780, Start Num: 69
Candidate Starts for DaddyRickover_96:
(Start: 69 @53556 has 121 MA's), (97, 53655),

Gene: Daenerys_92 Start: 53725, Stop: 53949, Start Num: 69
Candidate Starts for Daenerys_92:
(Start: 69 @53725 has 121 MA's), (97, 53824),

Gene: Damocles_73 Start: 37482, Stop: 37727, Start Num: 72
Candidate Starts for Damocles_73:
(41, 37398), (Start: 72 @37482 has 13 MA's), (84, 37509), (86, 37518), (88, 37521), (92, 37551), (94, 37557), (101, 37602), (106, 37617), (112, 37668), (117, 37707),

Gene: DanHam62_69 Start: 37634, Stop: 37858, Start Num: 81
Candidate Starts for DanHam62_69:
(Start: 47 @37562 has 1 MA's), (Start: 81 @37634 has 20 MA's), (Start: 89 @37661 has 2 MA's), (94, 37694), (96, 37709), (109, 37781), (112, 37799), (113, 37811), (117, 37838),

Gene: Daob_70 Start: 37188, Stop: 37433, Start Num: 72
Candidate Starts for Daob_70:
(13, 36969), (14, 36978), (17, 37014), (18, 37035), (20, 37044), (Start: 72 @37188 has 13 MA's), (84, 37215), (86, 37224), (88, 37227), (92, 37257), (94, 37263), (101, 37308), (106, 37323), (117, 37413),

Gene: DeadP_95 Start: 51561, Stop: 51785, Start Num: 69
Candidate Starts for DeadP_95:
(Start: 69 @51561 has 121 MA's), (97, 51660),

Gene: Deb65_87 Start: 51449, Stop: 51673, Start Num: 69
Candidate Starts for Deb65_87:
(Start: 69 @51449 has 121 MA's), (97, 51548),

Gene: DirtMcgirt_95 Start: 50205, Stop: 50429, Start Num: 69
Candidate Starts for DirtMcgirt_95:
(Start: 69 @50205 has 121 MA's), (97, 50304),

Gene: DirtyBoi_67 Start: 43186, Stop: 43434, Start Num: 69
Candidate Starts for DirtyBoi_67:
(31, 43087), (Start: 69 @43186 has 121 MA's), (95, 43273),

Gene: Dmitri_62 Start: 45089, Stop: 45337, Start Num: 69
Candidate Starts for Dmitri_62:
(31, 44990), (Start: 69 @45089 has 121 MA's), (95, 45176), (104, 45242),

Gene: DoRead_96 Start: 51020, Stop: 51244, Start Num: 69
Candidate Starts for DoRead_96:
(Start: 69 @51020 has 121 MA's), (97, 51119),

Gene: Doomphist_99 Start: 54376, Stop: 54600, Start Num: 69
Candidate Starts for Doomphist_99:
(Start: 69 @54376 has 121 MA's), (97, 54475),

Gene: Dorito_69 Start: 44511, Stop: 44738, Start Num: 79
Candidate Starts for Dorito_69:
(Start: 79 @44511 has 4 MA's), (82, 44517), (94, 44574), (109, 44661),

Gene: Dorothy_95 Start: 54545, Stop: 54769, Start Num: 69
Candidate Starts for Dorothy_95:
(Start: 69 @54545 has 121 MA's), (97, 54644),

Gene: DotProduct_88 Start: 50563, Stop: 50787, Start Num: 69
Candidate Starts for DotProduct_88:
(Start: 69 @50563 has 121 MA's), (97, 50662),

Gene: Drago_93 Start: 50208, Stop: 50432, Start Num: 69
Candidate Starts for Drago_93:
(Start: 69 @50208 has 121 MA's), (97, 50307),

Gene: Easley_73 Start: 45090, Stop: 45305, Start Num: 69
Candidate Starts for Easley_73:
(3, 44484), (4, 44499), (7, 44715), (8, 44721), (10, 44787), (11, 44823), (29, 44979), (34, 44994), (46, 45027), (57, 45054), (Start: 69 @45090 has 121 MA's), (96, 45180), (98, 45192), (109, 45252),

Gene: Eesa_64 Start: 39050, Stop: 39250, Start Num: 80
Candidate Starts for Eesa_64:
(16, 38861), (21, 38894), (37, 38948), (50, 38978), (57, 38996), (Start: 80 @39050 has 5 MA's), (Start: 89 @39077 has 2 MA's), (92, 39104), (96, 39125), (99, 39149), (107, 39185), (111, 39206),

Gene: Eish_100 Start: 54009, Stop: 54233, Start Num: 69
Candidate Starts for Eish_100:
(Start: 69 @54009 has 121 MA's), (97, 54108),

Gene: EmiMonkey_83 Start: 54212, Stop: 54436, Start Num: 69
Candidate Starts for EmiMonkey_83:
(Start: 69 @54212 has 121 MA's), (97, 54311),

Gene: Emma_99 Start: 52064, Stop: 52288, Start Num: 69
Candidate Starts for Emma_99:
(Start: 69 @52064 has 121 MA's), (97, 52163),

Gene: Emmaloid_97 Start: 52984, Stop: 53208, Start Num: 69
Candidate Starts for Emmaloid_97:
(Start: 69 @52984 has 121 MA's), (97, 53083),

Gene: Empress_94 Start: 52639, Stop: 52863, Start Num: 69
Candidate Starts for Empress_94:
(Start: 69 @52639 has 121 MA's), (97, 52738),

Gene: Enby_98 Start: 50484, Stop: 50708, Start Num: 69
Candidate Starts for Enby_98:
(Start: 69 @50484 has 121 MA's), (97, 50583),

Gene: Enzomatic_104 Start: 51645, Stop: 51869, Start Num: 69
Candidate Starts for Enzomatic_104:
(Start: 69 @51645 has 121 MA's), (97, 51744),

Gene: Estave1_102 Start: 56371, Stop: 56595, Start Num: 69
Candidate Starts for Estave1_102:
(Start: 69 @56371 has 121 MA's), (97, 56470),

Gene: Eyes_64 Start: 46097, Stop: 46345, Start Num: 69
Candidate Starts for Eyes_64:
(45, 46034), (Start: 69 @46097 has 121 MA's), (96, 46193), (104, 46253), (105, 46256),

Gene: Fastidio_98 Start: 50955, Stop: 51179, Start Num: 69
Candidate Starts for Fastidio_98:
(Start: 69 @50955 has 121 MA's), (97, 51054),

Gene: Filuzino_94 Start: 54475, Stop: 54699, Start Num: 69
Candidate Starts for Filuzino_94:
(Start: 69 @54475 has 121 MA's), (97, 54574),

Gene: Fingolfin_70 Start: 37637, Stop: 37861, Start Num: 81
Candidate Starts for Fingolfin_70:
(Start: 47 @37565 has 1 MA's), (Start: 81 @37637 has 20 MA's), (Start: 89 @37664 has 2 MA's), (94, 37697), (96, 37712), (109, 37784), (112, 37802), (113, 37814), (117, 37841),

Gene: Florinda_106 Start: 54860, Stop: 55084, Start Num: 69
Candidate Starts for Florinda_106:
(Start: 69 @54860 has 121 MA's), (97, 54959),

Gene: Fruitloop_92 Start: 53617, Stop: 53841, Start Num: 69
Candidate Starts for Fruitloop_92:
(Start: 69 @53617 has 121 MA's), (97, 53716),

Gene: GUmbie_93 Start: 52577, Stop: 52801, Start Num: 69
Candidate Starts for GUmbie_93:
(Start: 69 @52577 has 121 MA's), (97, 52676),

Gene: Galactic_95 Start: 52179, Stop: 52403, Start Num: 69
Candidate Starts for Galactic_95:
(Start: 69 @52179 has 121 MA's), (97, 52278),

Gene: Galaxy_64 Start: 36960, Stop: 37175, Start Num: 81
Candidate Starts for Galaxy_64:
(16, 36777), (21, 36810), (Start: 81 @36960 has 20 MA's), (87, 36984), (Start: 89 @36990 has 2 MA's), (90, 36999), (99, 37062), (108, 37101), (111, 37119), (113, 37140),

Gene: Geralt_87 Start: 51447, Stop: 51671, Start Num: 69
Candidate Starts for Geralt_87:
(Start: 69 @51447 has 121 MA's), (97, 51546),

Gene: GigiOuiOui_89 Start: 51580, Stop: 51804, Start Num: 69
Candidate Starts for GigiOuiOui_89:
(Start: 69 @51580 has 121 MA's), (97, 51679),

Gene: Girafales_103 Start: 54465, Stop: 54689, Start Num: 69
Candidate Starts for Girafales_103:
(Start: 69 @54465 has 121 MA's), (97, 54564),

Gene: Glotell_70 Start: 37681, Stop: 37905, Start Num: 81
Candidate Starts for Glotell_70:
(Start: 47 @37609 has 1 MA's), (Start: 81 @37681 has 20 MA's), (Start: 89 @37708 has 2 MA's), (94, 37741), (96, 37756), (109, 37828), (112, 37846), (113, 37858), (117, 37885),

Gene: GramZayde_72 Start: 38034, Stop: 38279, Start Num: 72
Candidate Starts for GramZayde_72:
(41, 37950), (Start: 72 @38034 has 13 MA's), (84, 38061), (86, 38070), (88, 38073), (92, 38103), (94, 38109), (101, 38154), (106, 38169), (117, 38259),

Gene: Gravel_75 Start: 39306, Stop: 39506, Start Num: 80
Candidate Starts for Gravel_75:
(16, 39117), (21, 39150), (37, 39204), (50, 39234), (57, 39252), (Start: 80 @39306 has 5 MA's), (Start: 89 @39333 has 2 MA's), (92, 39360), (96, 39381), (101, 39411), (107, 39441), (111, 39462),

Gene: Grimmer_100 Start: 53161, Stop: 53385, Start Num: 69
Candidate Starts for Grimmer_100:
(Start: 69 @53161 has 121 MA's), (97, 53260),

Gene: Hades_91 Start: 50166, Stop: 50390, Start Num: 69
Candidate Starts for Hades_91:
(Start: 69 @50166 has 121 MA's), (97, 50265),

Gene: HamCheese_68 Start: 37621, Stop: 37845, Start Num: 81
Candidate Starts for HamCheese_68:
(Start: 47 @37549 has 1 MA's), (Start: 81 @37621 has 20 MA's), (Start: 89 @37648 has 2 MA's), (94, 37681), (96, 37696), (109, 37768), (112, 37786), (113, 37798), (117, 37825),

Gene: Hamulus_95 Start: 52528, Stop: 52752, Start Num: 69
Candidate Starts for Hamulus_95:
(Start: 69 @52528 has 121 MA's), (97, 52627),

Gene: HannahD_69 Start: 45420, Stop: 45668, Start Num: 69
Candidate Starts for HannahD_69:
(45, 45357), (Start: 69 @45420 has 121 MA's), (94, 45501), (96, 45516), (102, 45570), (105, 45579),

Gene: HannahPhantana_71 Start: 37341, Stop: 37586, Start Num: 72
Candidate Starts for HannahPhantana_71:
(41, 37257), (Start: 72 @37341 has 13 MA's), (84, 37368), (86, 37377), (88, 37380), (92, 37410), (94, 37416), (101, 37461), (106, 37476), (117, 37566),

Gene: Harley_97 Start: 53710, Stop: 53934, Start Num: 69
Candidate Starts for Harley_97:
(Start: 69 @53710 has 121 MA's), (97, 53809),

Gene: Hegedechwinu_101 Start: 52838, Stop: 53062, Start Num: 69
Candidate Starts for Hegedechwinu_101:
(Start: 69 @52838 has 121 MA's), (97, 52937),

Gene: Hugley_77 Start: 52070, Stop: 52285, Start Num: 69
Candidate Starts for Hugley_77:
(1, 51236), (2, 51248), (3, 51464), (4, 51479), (5, 51509), (6, 51689), (7, 51695), (8, 51701), (11, 51803), (29, 51959), (34, 51974), (46, 52007), (Start: 69 @52070 has 121 MA's), (94, 52145), (96, 52160), (98, 52172),

Gene: IMpilo_92 Start: 51182, Stop: 51406, Start Num: 69
Candidate Starts for IMpilo_92:
(Start: 69 @51182 has 121 MA's), (97, 51281),

Gene: IbOuu_85 Start: 50477, Stop: 50701, Start Num: 69
Candidate Starts for IbOuu_85:
(Start: 69 @50477 has 121 MA's), (97, 50576),

Gene: Ibhubesi_92 Start: 50579, Stop: 50803, Start Num: 69
Candidate Starts for Ibhubesi_92:
(Start: 69 @50579 has 121 MA's), (97, 50678),

Gene: Invectra_78 Start: 47662, Stop: 47877, Start Num: 69
Candidate Starts for Invectra_78:
(3, 47056), (4, 47071), (7, 47287), (8, 47293), (10, 47359), (11, 47395), (29, 47551), (34, 47566), (46, 47599), (57, 47626), (Start: 69 @47662 has 121 MA's), (96, 47752), (98, 47764), (109, 47824),

Gene: Inventum_92 Start: 52733, Stop: 52957, Start Num: 69
Candidate Starts for Inventum_92:
(Start: 69 @52733 has 121 MA's), (97, 52832),

Gene: IrishSherpFalk_94 Start: 53004, Stop: 53228, Start Num: 69
Candidate Starts for IrishSherpFalk_94:
(Start: 69 @53004 has 121 MA's), (97, 53103),

Gene: Jamun_62 Start: 38028, Stop: 38213, Start Num: 89
Candidate Starts for Jamun_62:
(16, 37818), (Start: 81 @38001 has 20 MA's), (Start: 89 @38028 has 2 MA's), (99, 38100), (111, 38157), (113, 38178),

Gene: Jant_100 Start: 52288, Stop: 52512, Start Num: 69
Candidate Starts for Jant_100:
(Start: 69 @52288 has 121 MA's), (97, 52387),

Gene: Jecs_72 Start: 47614, Stop: 47862, Start Num: 69
Candidate Starts for Jecs_72:
(45, 47551), (Start: 69 @47614 has 121 MA's), (96, 47710), (104, 47770), (105, 47773),

Gene: Jerole_69 Start: 37465, Stop: 37710, Start Num: 72
Candidate Starts for Jerole_69:
(41, 37381), (Start: 72 @37465 has 13 MA's), (84, 37492), (86, 37501), (88, 37504), (92, 37534), (94, 37540), (101, 37585), (106, 37600), (112, 37651), (117, 37690),

Gene: JoeyJr_97 Start: 54641, Stop: 54865, Start Num: 69
Candidate Starts for JoeyJr_97:
(Start: 69 @54641 has 121 MA's), (97, 54740),

Gene: Juice456_93 Start: 52353, Stop: 52577, Start Num: 69
Candidate Starts for Juice456_93:
(Start: 69 @52353 has 121 MA's), (97, 52452),

Gene: Juniper1_88 Start: 51701, Stop: 51925, Start Num: 69
Candidate Starts for Juniper1_88:
(Start: 69 @51701 has 121 MA's), (97, 51800),

Gene: Juno112_68 Start: 37637, Stop: 37861, Start Num: 81
Candidate Starts for Juno112_68:
(Start: 47 @37565 has 1 MA's), (Start: 81 @37637 has 20 MA's), (Start: 89 @37664 has 2 MA's), (94, 37697), (96, 37712), (109, 37784), (112, 37802), (113, 37814), (117, 37841),

Gene: KHumphrey_69 Start: 37510, Stop: 37734, Start Num: 81
Candidate Starts for KHumphrey_69:
(Start: 47 @37438 has 1 MA's), (Start: 67 @37483 has 3 MA's), (Start: 81 @37510 has 20 MA's), (Start: 89 @37537 has 2 MA's), (94, 37570), (96, 37585), (109, 37657), (112, 37675), (113, 37687), (117, 37714),

Gene: KendraB23_75 Start: 39011, Stop: 39211, Start Num: 80
Candidate Starts for KendraB23_75:
(16, 38822), (21, 38855), (37, 38909), (50, 38939), (57, 38957), (Start: 80 @39011 has 5 MA's), (Start: 89 @39038 has 2 MA's), (92, 39065), (99, 39110), (107, 39146),

Gene: Kenuha5_87 Start: 52359, Stop: 52583, Start Num: 69
Candidate Starts for Kenuha5_87:
(Start: 69 @52359 has 121 MA's), (97, 52458),

Gene: Kepler_74 Start: 37670, Stop: 37915, Start Num: 72
Candidate Starts for Kepler_74:

(41, 37586), (Start: 72 @37670 has 13 MA's), (84, 37697), (86, 37706), (88, 37709), (92, 37739), (94, 37745), (101, 37790), (106, 37805), (112, 37856), (117, 37895),

Gene: Kiko_66 Start: 43613, Stop: 43864, Start Num: 69
Candidate Starts for Kiko_66:
(45, 43550), (57, 43577), (Start: 69 @43613 has 121 MA's), (111, 43814), (115, 43841),

Gene: Kimberlium_96 Start: 52453, Stop: 52677, Start Num: 69
Candidate Starts for Kimberlium_96:
(Start: 69 @52453 has 121 MA's), (97, 52552),

Gene: KingMidas_94 Start: 52870, Stop: 53094, Start Num: 69
Candidate Starts for KingMidas_94:
(Start: 69 @52870 has 121 MA's), (97, 52969),

Gene: KristaRAM_100 Start: 53831, Stop: 54055, Start Num: 69
Candidate Starts for KristaRAM_100:
(22, 53708), (49, 53774), (Start: 69 @53831 has 121 MA's), (97, 53930), (98, 53936), (110, 53999),

Gene: Kuleana_75 Start: 38064, Stop: 38273, Start Num: 73
Candidate Starts for Kuleana_75:
(15, 37878), (40, 37974), (48, 37995), (51, 37998), (68, 38055), (70, 38058), (Start: 72 @38061 has 13 MA's), (Start: 73 @38064 has 1 MA's), (83, 38082), (84, 38091), (86, 38100), (88, 38103), (Start: 89 @38106 has 2 MA's), (92, 38133), (94, 38139), (96, 38154), (111, 38232),

Gene: Laphuphu24k_67 Start: 37621, Stop: 37845, Start Num: 81
Candidate Starts for Laphuphu24k_67:
(Start: 47 @37549 has 1 MA's), (Start: 81 @37621 has 20 MA's), (Start: 89 @37648 has 2 MA's), (94, 37681), (96, 37696), (109, 37768), (112, 37786), (113, 37798), (117, 37825),

Gene: Leona_67 Start: 37757, Stop: 38008, Start Num: 67
Candidate Starts for Leona_67:
(21, 37649), (36, 37679), (51, 37715), (52, 37721), (Start: 67 @37757 has 3 MA's), (Start: 81 @37784 has 20 MA's), (Start: 89 @37811 has 2 MA's), (94, 37844), (96, 37859), (109, 37931), (112, 37949), (113, 37961), (117, 37988),

Gene: Leperchaun_96 Start: 53875, Stop: 54099, Start Num: 69
Candidate Starts for Leperchaun_96:
(Start: 69 @53875 has 121 MA's), (97, 53974),

Gene: LittleShirley_102 Start: 54183, Stop: 54407, Start Num: 69
Candidate Starts for LittleShirley_102:
(Start: 69 @54183 has 121 MA's), (97, 54282),

Gene: LittleTokyo_71 Start: 37065, Stop: 37412, Start Num: 35
Candidate Starts for LittleTokyo_71:
(19, 37011), (23, 37038), (28, 37047), (Start: 35 @37065 has 1 MA's), (48, 37101), (Start: 81 @37176 has 20 MA's), (86, 37197), (88, 37200), (Start: 89 @37203 has 2 MA's), (92, 37230), (95, 37245), (96, 37251), (100, 37278), (101, 37281), (111, 37332), (115, 37359), (119, 37398),

Gene: Lorde_97 Start: 49649, Stop: 49873, Start Num: 69
Candidate Starts for Lorde_97:
(Start: 69 @49649 has 121 MA's), (97, 49748),

Gene: Lucia_94 Start: 50497, Stop: 50721, Start Num: 69
Candidate Starts for Lucia_94:
(Start: 69 @50497 has 121 MA's), (97, 50596),

Gene: LunaBlu_98 Start: 53665, Stop: 53889, Start Num: 69
Candidate Starts for LunaBlu_98:
(Start: 69 @53665 has 121 MA's), (97, 53764),

Gene: Lunar_72 Start: 37670, Stop: 37915, Start Num: 72
Candidate Starts for Lunar_72:
(41, 37586), (Start: 72 @37670 has 13 MA's), (84, 37697), (86, 37706), (88, 37709), (92, 37739), (94, 37745), (101, 37790), (106, 37805), (112, 37856), (117, 37895),

Gene: Madavieve_75 Start: 50134, Stop: 50349, Start Num: 69
Candidate Starts for Madavieve_75:
(3, 49528), (4, 49543), (6, 49753), (7, 49759), (8, 49765), (11, 49867), (29, 50023), (34, 50038), (46, 50071), (Start: 69 @50134 has 121 MA's), (94, 50209), (98, 50236),

Gene: Madiba_93 Start: 52090, Stop: 52314, Start Num: 69
Candidate Starts for Madiba_93:
(Start: 69 @52090 has 121 MA's), (97, 52189),

Gene: MagicMan_69 Start: 46923, Stop: 47171, Start Num: 69
Candidate Starts for MagicMan_69:
(45, 46860), (Start: 69 @46923 has 121 MA's), (96, 47019), (104, 47079), (105, 47082),

Gene: Mahavrat_90 Start: 50730, Stop: 50954, Start Num: 69
Candidate Starts for Mahavrat_90:
(Start: 69 @50730 has 121 MA's), (97, 50829),

Gene: Marteena_76 Start: 49557, Stop: 49772, Start Num: 69
Candidate Starts for Marteena_76:
(3, 48948), (4, 48963), (5, 48993), (6, 49176), (7, 49182), (8, 49188), (11, 49290), (29, 49446), (32, 49455), (34, 49461), (46, 49494), (57, 49521), (Start: 69 @49557 has 121 MA's), (98, 49659),

Gene: Mcklovin_74 Start: 51595, Stop: 51810, Start Num: 69
Candidate Starts for Mcklovin_74:
(3, 50989), (4, 51004), (7, 51220), (8, 51226), (11, 51328), (29, 51484), (34, 51499), (46, 51532), (57, 51559), (Start: 69 @51595 has 121 MA's), (98, 51697), (109, 51757),

Gene: Medindi_99 Start: 53851, Stop: 54075, Start Num: 69
Candidate Starts for Medindi_99:
(Start: 69 @53851 has 121 MA's), (97, 53950),

Gene: Melons_72 Start: 37679, Stop: 37924, Start Num: 72
Candidate Starts for Melons_72:
(41, 37595), (Start: 72 @37679 has 13 MA's), (84, 37706), (86, 37715), (88, 37718), (92, 37748), (94, 37754), (101, 37799), (106, 37814), (112, 37865), (117, 37904),

Gene: MilleniumForce_94 Start: 53252, Stop: 53476, Start Num: 69
Candidate Starts for MilleniumForce_94:
(Start: 69 @53252 has 121 MA's), (97, 53351),

Gene: Moonbeam_97 Start: 53630, Stop: 53854, Start Num: 69
Candidate Starts for Moonbeam_97:
(Start: 69 @53630 has 121 MA's), (97, 53729),

Gene: Moonflower_64 Start: 44641, Stop: 44889, Start Num: 69
Candidate Starts for Moonflower_64:
(31, 44542), (Start: 69 @44641 has 121 MA's), (95, 44728), (109, 44833), (111, 44842),

Gene: Ms6_96 Start: 49416, Stop: 49640, Start Num: 69
Candidate Starts for Ms6_96:
(Start: 69 @49416 has 121 MA's), (97, 49515),

Gene: MulchExplorer_94 Start: 52124, Stop: 52348, Start Num: 69
Candidate Starts for MulchExplorer_94:
(Start: 69 @52124 has 121 MA's), (97, 52223),

Gene: NaLuna_71 Start: 45420, Stop: 45668, Start Num: 69
Candidate Starts for NaLuna_71:
(45, 45357), (Start: 69 @45420 has 121 MA's), (94, 45501), (96, 45516), (102, 45570), (105, 45579),

Gene: NewHope4_99 Start: 51791, Stop: 52015, Start Num: 69
Candidate Starts for NewHope4_99:
(Start: 69 @51791 has 121 MA's), (97, 51890),

Gene: Niblet_62 Start: 38397, Stop: 38600, Start Num: 78
Candidate Starts for Niblet_62:
(Start: 78 @38397 has 1 MA's), (Start: 81 @38400 has 20 MA's), (Start: 89 @38427 has 2 MA's), (91, 38448), (92, 38454), (96, 38475), (99, 38499), (107, 38535), (114, 38580),

Gene: Nimbo_86 Start: 51449, Stop: 51673, Start Num: 69
Candidate Starts for Nimbo_86:
(Start: 69 @51449 has 121 MA's), (97, 51548),

Gene: Nymphadora_79 Start: 51695, Stop: 51910, Start Num: 69
Candidate Starts for Nymphadora_79:
(1, 50861), (2, 50873), (3, 51089), (4, 51104), (5, 51134), (6, 51314), (7, 51320), (8, 51326), (11, 51428), (29, 51584), (34, 51599), (46, 51632), (Start: 69 @51695 has 121 MA's), (94, 51770), (96, 51785), (98, 51797),

Gene: Ogopogo_99 Start: 52090, Stop: 52314, Start Num: 64
Candidate Starts for Ogopogo_99:
(Start: 64 @52090 has 1 MA's),

Gene: OldBen_91 Start: 52841, Stop: 53065, Start Num: 69
Candidate Starts for OldBen_91:
(Start: 69 @52841 has 121 MA's), (97, 52940),

Gene: Opie_72 Start: 47038, Stop: 47286, Start Num: 69
Candidate Starts for Opie_72:
(45, 46975), (Start: 69 @47038 has 121 MA's), (96, 47134), (104, 47194), (105, 47197),

Gene: Oppalora_67 Start: 37635, Stop: 37859, Start Num: 81

Candidate Starts for Oppalora_67:
(Start: 47 @37563 has 1 MA's), (Start: 81 @37635 has 20 MA's), (86, 37656), (Start: 89 @37662 has 2 MA's), (94, 37695), (96, 37710), (109, 37782), (112, 37800), (113, 37812), (117, 37839),

Gene: Orcanus_64 Start: 38537, Stop: 38737, Start Num: 80
Candidate Starts for Orcanus_64:
(16, 38348), (21, 38381), (37, 38435), (50, 38465), (57, 38483), (Start: 80 @38537 has 5 MA's), (Start: 89 @38564 has 2 MA's), (92, 38591), (99, 38636), (101, 38642), (107, 38672), (111, 38693), (116, 38732),

Gene: Oregano_74 Start: 45625, Stop: 45852, Start Num: 79
Candidate Starts for Oregano_74:
(Start: 79 @45625 has 4 MA's), (82, 45631),

Gene: OtsoOtso_71 Start: 37295, Stop: 37540, Start Num: 72
Candidate Starts for OtsoOtso_71:
(41, 37211), (Start: 72 @37295 has 13 MA's), (84, 37322), (86, 37331), (88, 37334), (92, 37364), (94, 37370), (101, 37415), (106, 37430), (117, 37520),

Gene: Ovechkin_98 Start: 53678, Stop: 53902, Start Num: 69
Candidate Starts for Ovechkin_98:
(Start: 69 @53678 has 121 MA's), (97, 53777),

Gene: PHappiness_94 Start: 53670, Stop: 53894, Start Num: 69
Candidate Starts for PHappiness_94:
(Start: 69 @53670 has 121 MA's), (97, 53769),

Gene: PMC_93 Start: 51819, Stop: 52043, Start Num: 69
Candidate Starts for PMC_93:
(Start: 69 @51819 has 121 MA's), (97, 51918),

Gene: PatriciaStar_64 Start: 45016, Stop: 45264, Start Num: 69
Candidate Starts for PatriciaStar_64:
(31, 44917), (Start: 69 @45016 has 121 MA's), (Start: 79 @45031 has 4 MA's), (95, 45103), (109, 45208),

Gene: Pelletreau_75 Start: 39306, Stop: 39506, Start Num: 80
Candidate Starts for Pelletreau_75:
(16, 39117), (21, 39150), (37, 39204), (50, 39234), (57, 39252), (Start: 80 @39306 has 5 MA's), (Start: 89 @39333 has 2 MA's), (92, 39360), (96, 39381), (101, 39411), (107, 39441), (111, 39462),

Gene: Peridot_98 Start: 53192, Stop: 53416, Start Num: 69
Candidate Starts for Peridot_98:
(Start: 69 @53192 has 121 MA's), (97, 53291),

Gene: Phalconet_95 Start: 52818, Stop: 53042, Start Num: 69
Candidate Starts for Phalconet_95:
(Start: 69 @52818 has 121 MA's), (97, 52917),

Gene: Phatniss_92 Start: 52150, Stop: 52374, Start Num: 69
Candidate Starts for Phatniss_92:
(Start: 69 @52150 has 121 MA's), (97, 52249),

Gene: PhesterPhotato_98 Start: 52792, Stop: 53016, Start Num: 69
Candidate Starts for PhesterPhotato_98:
(Start: 69 @52792 has 121 MA's), (97, 52891),

Gene: PhirstandPhine_70 Start: 37484, Stop: 37729, Start Num: 72
Candidate Starts for PhirstandPhine_70:
(Start: 72 @37484 has 13 MA's), (84, 37511), (86, 37520), (88, 37523), (92, 37553), (94, 37559), (101, 37604), (106, 37619), (112, 37670), (117, 37709),

Gene: PhlipPhlop_84 Start: 54212, Stop: 54436, Start Num: 69
Candidate Starts for PhlipPhlop_84:
(Start: 69 @54212 has 121 MA's), (97, 54311),

Gene: PhluffyCoco_67 Start: 37664, Stop: 37960, Start Num: 47
Candidate Starts for PhluffyCoco_67:
(Start: 47 @37664 has 1 MA's), (Start: 81 @37736 has 20 MA's), (Start: 89 @37763 has 2 MA's), (94, 37796), (96, 37811), (109, 37883), (112, 37901), (113, 37913), (117, 37940),

Gene: Pineda_71 Start: 37640, Stop: 37885, Start Num: 72
Candidate Starts for Pineda_71:
(41, 37556), (Start: 72 @37640 has 13 MA's), (84, 37667), (86, 37676), (88, 37679), (92, 37709), (94, 37715), (101, 37760), (112, 37826), (117, 37865),

Gene: Poenanya_98 Start: 54376, Stop: 54600, Start Num: 69
Candidate Starts for Poenanya_98:
(Start: 69 @54376 has 121 MA's), (97, 54475),

Gene: Polka_70 Start: 37295, Stop: 37540, Start Num: 72
Candidate Starts for Polka_70:
(41, 37211), (Start: 72 @37295 has 13 MA's), (84, 37322), (86, 37331), (88, 37334), (92, 37364), (94, 37370), (101, 37415), (106, 37430), (117, 37520),

Gene: Polka14_98 Start: 54437, Stop: 54661, Start Num: 69
Candidate Starts for Polka14_98:
(Start: 69 @54437 has 121 MA's), (97, 54536),

Gene: Pollux_80 Start: 51514, Stop: 51729, Start Num: 69
Candidate Starts for Pollux_80:
(3, 50905), (4, 50920), (5, 50950), (6, 51133), (7, 51139), (8, 51145), (11, 51247), (29, 51403), (32, 51412), (34, 51418), (46, 51451), (57, 51478), (Start: 69 @51514 has 121 MA's), (98, 51616),

Gene: Polo2Bam_103 Start: 51645, Stop: 51869, Start Num: 69
Candidate Starts for Polo2Bam_103:
(Start: 69 @51645 has 121 MA's), (97, 51744),

Gene: Powerball_71 Start: 45724, Stop: 45951, Start Num: 79
Candidate Starts for Powerball_71:
(Start: 79 @45724 has 4 MA's), (82, 45730), (94, 45787), (109, 45874),

Gene: QuickMath_95 Start: 52705, Stop: 52929, Start Num: 69
Candidate Starts for QuickMath_95:
(Start: 69 @52705 has 121 MA's), (97, 52804),

Gene: Quico_103 Start: 54680, Stop: 54904, Start Num: 69
Candidate Starts for Quico_103:
(Start: 69 @54680 has 121 MA's), (97, 54779),

Gene: REQ2_81 Start: 47996, Stop: 48220, Start Num: 69
Candidate Starts for REQ2_81:
(9, 47633), (26, 47882), (43, 47927), (Start: 69 @47996 has 121 MA's),

Gene: Ramsey_99 Start: 54678, Stop: 54902, Start Num: 69
Candidate Starts for Ramsey_99:
(Start: 69 @54678 has 121 MA's), (97, 54777),

Gene: Rattail_70 Start: 38032, Stop: 38256, Start Num: 81
Candidate Starts for Rattail_70:
(Start: 47 @37960 has 1 MA's), (Start: 81 @38032 has 20 MA's), (Start: 89 @38059 has 2 MA's), (94, 38092), (96, 38107), (109, 38179), (112, 38197), (113, 38209), (117, 38236), (118, 38242),

Gene: RedBird_95 Start: 54415, Stop: 54639, Start Num: 69
Candidate Starts for RedBird_95:
(Start: 69 @54415 has 121 MA's), (97, 54514),

Gene: RedFox_70 Start: 37895, Stop: 38119, Start Num: 81
Candidate Starts for RedFox_70:
(62, 37856), (70, 37877), (Start: 81 @37895 has 20 MA's), (Start: 89 @37922 has 2 MA's), (94, 37955), (96, 37970), (112, 38060), (113, 38072), (117, 38099),

Gene: Renna12_71 Start: 38335, Stop: 38586, Start Num: 67
Candidate Starts for Renna12_71:
(44, 38281), (51, 38293), (52, 38299), (Start: 67 @38335 has 3 MA's), (Start: 81 @38362 has 20 MA's), (Start: 89 @38389 has 2 MA's), (94, 38422), (96, 38437), (109, 38509), (112, 38527), (113, 38539), (117, 38566),

Gene: RitaG_93 Start: 53472, Stop: 53696, Start Num: 69
Candidate Starts for RitaG_93:
(Start: 69 @53472 has 121 MA's), (97, 53571),

Gene: Rizz_76 Start: 46891, Stop: 47118, Start Num: 79
Candidate Starts for Rizz_76:
(Start: 79 @46891 has 4 MA's), (82, 46897), (94, 46954),

Gene: Rockne_97 Start: 51831, Stop: 52055, Start Num: 69
Candidate Starts for Rockne_97:
(Start: 69 @51831 has 121 MA's), (97, 51930),

Gene: RockyHorror_98 Start: 52582, Stop: 52806, Start Num: 69
Candidate Starts for RockyHorror_98:
(Start: 69 @52582 has 121 MA's), (97, 52681),

Gene: Royals2015_97 Start: 51702, Stop: 51926, Start Num: 69
Candidate Starts for Royals2015_97:
(Start: 69 @51702 has 121 MA's), (97, 51801),

Gene: Ruchi_63 Start: 37737, Stop: 37949, Start Num: 81

Candidate Starts for Ruchi_63:
(16, 37542), (56, 37674), (Start: 81 @37737 has 20 MA's), (Start: 89 @37764 has 2 MA's), (90, 37773), (99, 37836), (111, 37893), (113, 37914),

Gene: Sassafras_96 Start: 52732, Stop: 52956, Start Num: 69
Candidate Starts for Sassafras_96:
(Start: 69 @52732 has 121 MA's), (97, 52831),

Gene: Schnabeltier_70 Start: 46220, Stop: 46468, Start Num: 69
Candidate Starts for Schnabeltier_70:
(45, 46157), (Start: 69 @46220 has 121 MA's), (96, 46316), (104, 46376), (105, 46379),

Gene: Scottish_94 Start: 52309, Stop: 52533, Start Num: 69
Candidate Starts for Scottish_94:
(Start: 69 @52309 has 121 MA's), (97, 52408),

Gene: SeaLumen_100 Start: 51645, Stop: 51869, Start Num: 69
Candidate Starts for SeaLumen_100:
(Start: 69 @51645 has 121 MA's), (97, 51744),

Gene: Seagreen_95 Start: 53324, Stop: 53548, Start Num: 69
Candidate Starts for Seagreen_95:
(Start: 69 @53324 has 121 MA's), (97, 53423),

Gene: Shen_60 Start: 36923, Stop: 37123, Start Num: 80
Candidate Starts for Shen_60:
(16, 36734), (21, 36767), (37, 36821), (50, 36851), (57, 36869), (Start: 80 @36923 has 5 MA's), (Start: 89 @36950 has 2 MA's), (92, 36977), (99, 37022), (107, 37058), (111, 37079),

Gene: SimranZ1_90 Start: 51204, Stop: 51428, Start Num: 69
Candidate Starts for SimranZ1_90:
(Start: 69 @51204 has 121 MA's), (97, 51303),

Gene: Slim_97 Start: 52975, Stop: 53199, Start Num: 69
Candidate Starts for Slim_97:
(Start: 69 @52975 has 121 MA's), (97, 53074),

Gene: Spikelee_95 Start: 54476, Stop: 54700, Start Num: 69
Candidate Starts for Spikelee_95:
(Start: 69 @54476 has 121 MA's), (97, 54575),

Gene: Squirty_94 Start: 56513, Stop: 56737, Start Num: 69
Candidate Starts for Squirty_94:
(Start: 69 @56513 has 121 MA's), (97, 56612),

Gene: StAnnes_98 Start: 54237, Stop: 54461, Start Num: 69
Candidate Starts for StAnnes_98:
(Start: 69 @54237 has 121 MA's), (97, 54336),

Gene: Stap_89 Start: 49963, Stop: 50187, Start Num: 69
Candidate Starts for Stap_89:
(Start: 69 @49963 has 121 MA's), (97, 50062),

Gene: Starcevich_96 Start: 54084, Stop: 54308, Start Num: 69
Candidate Starts for Starcevich_96:
(Start: 69 @54084 has 121 MA's), (97, 54183),

Gene: StuartMinion_60 Start: 34373, Stop: 34597, Start Num: 81
Candidate Starts for StuartMinion_60:
(43, 34289), (54, 34316), (61, 34325), (Start: 66 @34343 has 2 MA's), (Start: 81 @34373 has 20 MA's), (Start: 89 @34400 has 2 MA's), (94, 34433), (96, 34448), (109, 34520), (112, 34538), (113, 34550), (117, 34577),

Gene: Suerte_69 Start: 45335, Stop: 45562, Start Num: 79
Candidate Starts for Suerte_69:
(Start: 79 @45335 has 4 MA's), (82, 45341),

Gene: Taj_101 Start: 54398, Stop: 54622, Start Num: 69
Candidate Starts for Taj_101:
(Start: 69 @54398 has 121 MA's), (97, 54497),

Gene: TaronosaurasRx_74 Start: 46596, Stop: 46844, Start Num: 69
Candidate Starts for TaronosaurasRx_74:
(30, 46488), (32, 46491), (38, 46509), (57, 46557), (Start: 69 @46596 has 121 MA's), (94, 46677), (96, 46692), (104, 46752), (105, 46755),

Gene: TaylorSipht_64 Start: 38271, Stop: 38459, Start Num: 81
Candidate Starts for TaylorSipht_64:
(28, 38142), (55, 38211), (60, 38217), (Start: 81 @38271 has 20 MA's), (86, 38292), (88, 38295), (Start: 89 @38298 has 2 MA's), (90, 38307), (99, 38370), (109, 38418), (111, 38427), (113, 38448),

Gene: Toad24_67 Start: 39060, Stop: 39266, Start Num: 74
Candidate Starts for Toad24_67:
(53, 39006), (Start: 74 @39060 has 1 MA's), (Start: 81 @39066 has 20 MA's), (Start: 89 @39093 has 2 MA's), (92, 39120), (96, 39141), (99, 39165), (107, 39201), (111, 39222),

Gene: Tweety_95 Start: 53662, Stop: 53886, Start Num: 69
Candidate Starts for Tweety_95:
(Start: 69 @53662 has 121 MA's), (97, 53761),

Gene: UncleRicky_94 Start: 51705, Stop: 51929, Start Num: 69
Candidate Starts for UncleRicky_94:
(Start: 69 @51705 has 121 MA's), (97, 51804),

Gene: VRedHorse_95 Start: 50521, Stop: 50745, Start Num: 69
Candidate Starts for VRedHorse_95:
(Start: 69 @50521 has 121 MA's), (97, 50620),

Gene: Violac_96 Start: 54054, Stop: 54278, Start Num: 69
Candidate Starts for Violac_96:
(Start: 69 @54054 has 121 MA's), (97, 54153),

Gene: Vivum_92 Start: 54308, Stop: 54532, Start Num: 69
Candidate Starts for Vivum_92:
(Start: 69 @54308 has 121 MA's), (97, 54407),

Gene: Vulpecula_63 Start: 36929, Stop: 37147, Start Num: 76
Candidate Starts for Vulpecula_63:
(Start: 76 @36929 has 1 MA's), (Start: 81 @36935 has 20 MA's), (Start: 89 @36962 has 2 MA's), (90, 36971), (99, 37034), (108, 37073), (111, 37091), (113, 37112),

Gene: Wachhund_92 Start: 49757, Stop: 49981, Start Num: 69
Candidate Starts for Wachhund_92:
(Start: 69 @49757 has 121 MA's), (97, 49856),

Gene: Wee_98 Start: 54474, Stop: 54698, Start Num: 69
Candidate Starts for Wee_98:
(Start: 69 @54474 has 121 MA's), (97, 54573),

Gene: Westrich_73 Start: 39227, Stop: 39433, Start Num: 74
Candidate Starts for Westrich_73:
(53, 39173), (Start: 74 @39227 has 1 MA's), (Start: 81 @39233 has 20 MA's), (Start: 89 @39260 has 2 MA's), (92, 39287), (96, 39308), (99, 39332), (107, 39368), (111, 39389),

Gene: WileyE_65 Start: 37923, Stop: 38135, Start Num: 81
Candidate Starts for WileyE_65:
(45, 37848), (58, 37875), (65, 37896), (Start: 78 @37920 has 1 MA's), (Start: 81 @37923 has 20 MA's), (84, 37935), (Start: 89 @37950 has 2 MA's), (90, 37959), (99, 38022), (111, 38079), (113, 38100),

Gene: WillSterrel_92 Start: 53037, Stop: 53261, Start Num: 69
Candidate Starts for WillSterrel_92:
(Start: 69 @53037 has 121 MA's), (97, 53136),

Gene: XFactor_85 Start: 50787, Stop: 51011, Start Num: 69
Candidate Starts for XFactor_85:
(Start: 69 @50787 has 121 MA's), (97, 50886),

Gene: ZAYM_75 Start: 46437, Stop: 46685, Start Num: 69
Candidate Starts for ZAYM_75:
(45, 46371), (Start: 69 @46437 has 121 MA's), (94, 46518), (96, 46533), (104, 46593), (105, 46596),

Gene: Zixiang_64 Start: 38427, Stop: 38627, Start Num: 80
Candidate Starts for Zixiang_64:
(16, 38238), (21, 38271), (37, 38325), (50, 38355), (57, 38373), (Start: 80 @38427 has 5 MA's), (Start: 89 @38454 has 2 MA's), (92, 38481), (99, 38526), (107, 38562), (111, 38583),