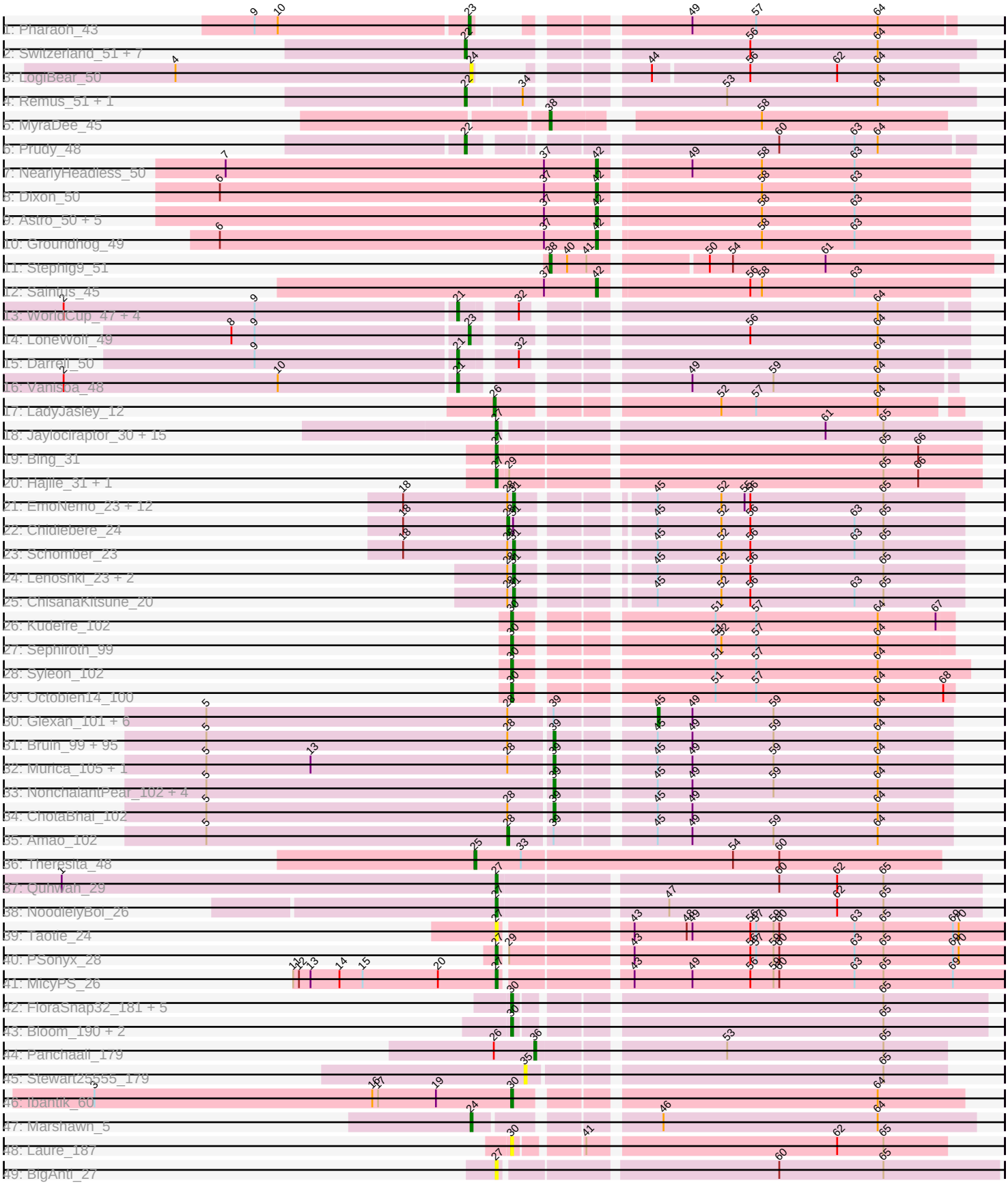
Pham 347263


1: Pharaoh_43
2: Switzerland_51 + 7
3: LogiBear_50
4: Remus_51 + 1
5: MyraDee_45
6: Prudy_48
7: NearlyHeadless_50
8: Dixon_50
9: Astro_50 + 5
10: Groundhog_49
11: Stephig9_51
12: Saintus_45
13: WorldCup_47 + 4
14: LoneWolf_49
15: Darrell_50
16: Vanisha_48
17: LadyJasley_12
18: Jaylociraptor_30 + 15
19: Bing_31
20: Hajlie_31 + 1
21: EmoNemo_23 + 12
22: Chidiebere_24
23: Schomber_23
24: Lenoshki_23 + 2
25: ChisanaKitsune_20
26: Kudeire_102
27: Sephiroth_99
28: Syleon_102
29: Octobien14_100
30: Glexan_101 + 6
31: Bruin_99 + 95
32: Murica_105 + 1
33: NonchalantPear_102 + 4
34: ChotaBhai_102
35: Amao_102
36: Theresita_48
37: Quinvan_29
38: NoodlelyBoi_26
39: Taotie_24
40: PSonyx_28
41: MicyPS_26
42: FloraSnap32_181 + 5
43: Bloom_190 + 2
44: Panchaali_179
45: Stewart25555_179
46: Ibantik_60
47: Marshawn_5
48: Laure_187
49: BigAnti_27

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 347263 Report

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

Pham number 347263 has 209 members, 29 are drafts.

Phages represented in each track:
• Track 1 : Pharaoh_43
• Track 2 : Switzerland_51, Warrior24_52, Anon_46, Waits_51, Battleship_52, MinecraftSteve_52, JSwag_50, Rosalind_50
• Track 3 : LogiBear_50
• Track 4 : Remus_51, Strosahl_51
• Track 5 : MyraDee_45
• Track 6 : Prudy_48
• Track 7 : NearlyHeadless_50
• Track 8 : Dixon_50
• Track 9 : Astro_50, Smeadley_51, Danforth_50, Caitlin_50, Expelliarmus_50, Roary_51
• Track 10 : Groundhog_49
• Track 11 : Stephig9_51
• Track 12 : Saintus_45
• Track 13 : WorldCup_47, CogOmlette_47, Rahalelujah_48, Bellris_48, Minispark_47
• Track 14 : LoneWolf_49
• Track 15 : Darrell_50
• Track 16 : Vanisoa_48
• Track 17 : LadyJasley_12
• Track 18 : Jaylociraptor_30, Hoshi_30, TaidaOne_30, TonyStarch_30, Maya_30, Namo_30, CherryBlossom_30, FidgetOrca_30, Esketit_30, Spectropatronm_30, IceWarrior_30, TieDye_29, Indigenous_30, Rima_30, OlympicHelado_30, Meibysrarus_30
• Track 19 : Bing_31
• Track 20 : Hajile_31, Wigberry_30
• Track 21 : EmoNemo_23, Argena_23, Twin_23, Aloki_24, Farrylious_23, Gray_24, Kabocha_25, Hanem_24, Toneprano_23, MintFritos_23, Pakusa_23, Mikronejon_24, Amoonguss_23
• Track 22 : Chidiebere_24
• Track 23 : Schomber_23
• Track 24 : Lenoshki_23, Beted_23, Oogie_24
• Track 25 : ChisanaKitsune_20
• Track 26 : Kudefre_102
• Track 27 : Sephiroth_99
• Track 28 : Syleon_102
• Track 29 : Octobien14_100

• Track 30 : Glexan_101, FairyPath_103, Becksu_100, Thimble_104, FoghornLeghorn_95, BugsBunny_101, Palpatine_103
• Track 31 : Bruin_99, Greep_106, Miniwave_97, Lilpickle_101, Nimrod_102, Petra64142_106, Livelaughbron_103, Paperbeatsrock_101, DrDrey_102, ShamWow_102, BigBubba_102, Emmina_102, Nala_104, MPhalcon_103, SirDuracell_102, Pharsalus_99, Dusk_99, StormChicken_103, TBrady12_105, BilboSwaggins_100, Stank_104, Misfit_103, Contagion_98, Phaja_100, PhatBacter_105, Bask21_102, Adnama_106, Elite2014_101, Manda_103, Marshmallow_99, Buck_103, ChosenOne_102, Harella_102, Command613_104, Kostya_102, Phaux_104, Mindy_101, Tarkin_101, Tomaszewski_97, Mosby_98, CrystalP_101, Wiggin_104, NelitzaMV_99, Barbarian_101, GoldenSpark_106, xkcd_105, Cookies_99, DoctorDiddles_101, Gator_100, Easy2Say_102, Cactus_106, Hoonter_105, Gemini_107, YassJohnny_99, Quallification_103, FireRed_105, Brewer_98, ABCat_99, Henry_99, IHOP_100, TeamEdward_102, Sotrice96_103, Argent26_106, Goldilocks_105, TeardropMSU_98, Sassay_97, SophKB_100, Icee_103, Inca_99, Bogg_102, Asriel_100, Pat3_99, Youngblood_105, Rimmer_100, StellaBean_101, Terminus_105, Kanye_99, HufflyPuff_104, BadStone_99, Policronamos_104, Holt_107, ShereKhan_100, Tuco_103, Goku_101, GooberAzure_105, Myrale_102, Daikon_102, Eureka_101, MollyToe_97, Willez_97, Toto_100, Kimchi_106, Rakim_103, Traaww1_98, Balomoji_102, Flypotenuse_98
• Track 32 : Murica_105, MISSy_103
• Track 33 : NonchalantPear_102, StolenFromERC_104, Gage_104, Xandras_101, Ptowny_98
• Track 34 : ChotaBhai_102
• Track 35 : Amao_102
• Track 36 : Theresita_48
• Track 37 : Quhwah_29
• Track 38 : NoodlelyBoi_26
• Track 39 : Taotie_24
• Track 40 : PSonyx_28
• Track 41 : MicyPS_26
• Track 42 : FloraSnap32_181, FrostedClock_187, GoldenEssence_174, Phrampa_178, Mimi_186, Patbob_185
• Track 43 : Bloom_190, Racecar_187, Talia1610_187
• Track 44 : Panchaali_179
• Track 45 : Stewart25555_179
• Track 46 : Ibantik_60
• Track 47 : Marshawn_5
• Track 48 : Laure_187
• Track 49 : BigAnti_27

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

The start number called the most often in the published annotations is 39, it was called in 97 of the 180 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ABCat_99, Adnama_106, Argent26_106, Asriel_100, BadStone_99, Balomoji_102, Barbarian_101, Bask21_102, BigBubba_102, BilboSwaggins_100, Bogg_102, Brewer_98, Bruin_99, Buck_103, Cactus_106, ChosenOne_102, ChotaBhai_102,

Command613_104, Contagion_98, Cookies_99, CrystalP_101, Daikon_102, DoctorDiddles_101, DrDrey_102, Dusk_99, Easy2Say_102, Elite2014_101, Emmina_102, Eureka_101, FireRed_105, Flypotenuse_98, Gage_104, Gator_100, Gemini_107, Goku_101, GoldenSpark_106, Goldilocks_105, GooberAzure_105, Greep_106, Harella_102, Henry_99, Holt_107, Hoonter_105, HufflyPuff_104, IHOP_100, Icee_103, Inca_99, Kanye_99, Kimchi_106, Kostya_102, Lilpickle_101, Livelaughbron_103, MISSy_103, MPhalcon_103, Manda_103, Marshmallow_99, Mindy_101, Miniwave_97, Misfit_103, MollyToe_97, Mosby_98, Murica_105, Myrale_102, Nala_104, NelitzaMV_99, Nimrod_102, NonchalantPear_102, Paperbeatsrock_101, Pat3_99, Petra64142_106, Phaja_100, Pharsalus_99, PhatBacter_105, Phaux_104, Policronamos_104, Ptowny_98, Quallification_103, Rakim_103, Rimmer_100, Sassay_97, ShamWow_102, ShereKhan_100, SirDuracell_102, SophKB_100, Sotrice96_103, Stank_104, StellaBean_101, StolenFromERC_104, StormChicken_103, TBrady12_105, Tarkin_101, TeamEdward_102, TeardropMSU_98, Terminus_105, Tomaszewski_97, Toto_100, Traaww1_98, Tuco_103, Wiggin_104, Willez_97, Xandras_101, YassJohnny_99, Youngblood_105, xkcd_105,

Genes that have the "Most Annotated" start but do not call it:
• Amao_102, Becksu_100, BugsBunny_101, FairyPath_103, FoghornLeghorn_95, Glexan_101, Palpatine_103, Thimble_104,

Genes that do not have the "Most Annotated" start:
• Aloki_24, Amoonguss_23, Anon_46, Argena_23, Astro_50, Battleship_52, Bellris_48, Beted_23, BigAnti_27, Bing_31, Bloom_190, Caitlin_50, CherryBlossom_30, Chidiebere_24, ChisanaKitsune_20, CogOmlette_47, Danforth_50, Darrell_50, Dixon_50, EmoNemo_23, Esketit_30, Expelliarmus_50, Farrylious_23, FidgetOrca_30, FloraSnap32_181, FrostedClock_187, GoldenEssence_174, Gray_24, Groundhog_49, Hajile_31, Hanem_24, Hoshi_30, Ibantik_60, IceWarrior_30, Indigenous_30, JSwag_50, Jaylociraptor_30, Kabocha_25, Kudefre_102, LadyJasley_12, Laure_187, Lenoshki_23, LogiBear_50, LoneWolf_49, Marshawn_5, Maya_30, Meibysrarus_30, MicyPS_26, Mikronejon_24, Mimi_186, MinecraftSteve_52, Minispark_47, MintFritos_23, MyraDee_45, Namo_30, NearlyHeadless_50, NoodlelyBoi_26, Octobien14_100, OlympicHelado_30, Oogie_24, PSonyx_28, Pakusa_23, Panchaali_179, Patbob_185, Pharaoh_43, Phrampa_178, Prudy_48, Quhwah_29, Racecar_187, Rahalelujah_48, Remus_51, Rima_30, Roary_51, Rosalind_50, Saintus_45, Schomber_23, Sephiroth_99, Smeadley_51, Spectropatronm_30, Stephig9_51, Stewart25555_179, Strosahl_51, Switzerland_51, Syleon_102, TaidaOne_30, Talia1610_187, Taotie_24, Theresita_48, TieDye_29, Toneprano_23, TonyStarch_30, Twin_23, Vanisoa_48, Waits_51, Warrior24_52, Wigberry_30, WorldCup_47,

Summary by start number:

Start 21:
• Found in 7 of 209 (3.3%) 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: Bellris_48 (A9), CogOmlette_47 (A9), Darrell_50 (A9), Minispark_47 (A9), Rahalelujah_48 (A9), Vanisoa_48 (A9), WorldCup_47 (A9),

Start 22:

• Found in 11 of 209 (5.3%) of genes in pham
• Manual Annotations of this start: 11 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anon_46 (A15), Battleship_52 (A15), JSwag_50 (A15), MinecraftSteve_52 (A15), Prudy_48 (A2), Remus_51 (A15), Rosalind_50 (A15), Strosahl_51 (A15), Switzerland_51 (A15), Waits_51 (A15), Warrior24_52 (A15),

Start 23:
• Found in 2 of 209 (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: LoneWolf_49 (A9), Pharaoh_43 (A12),

Start 24:
• Found in 2 of 209 (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: LogiBear_50 (A15), Marshawn_5 (K6),

Start 25:
• Found in 1 of 209 (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: Theresita_48 (EA7),

Start 26:
• Found in 2 of 209 (1.0%) 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: LadyJasley_12 (AV),

Start 27:
• Found in 25 of 209 (12.0%) of genes in pham
• Manual Annotations of this start: 22 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigAnti_27 (singleton), Bing_31 (BI5), CherryBlossom_30 (BI1), Esketit_30 (BI1), FidgetOrca_30 (BI1), Hajile_31 (BI5), Hoshi_30 (BI1), IceWarrior_30 (BI1), Indigenous_30 (BI1), Jaylociraptor_30 (BI1), Maya_30 (BI1), Meibysrarus_30 (BI1), MicyPS_26 (EQ), Namo_30 (BI1), NoodlelyBoi_26 (EC), OlympicHelado_30 (BI1), PSonyx_28 (EQ), Quhwah_29 (EC), Rima_30 (BI1), Spectropatronm_30 (BI1), TaidaOne_30 (BI1), Taotie_24 (EQ), TieDye_29 (BI1), TonyStarch_30 (BI1), Wigberry_30 (BI5),

Start 28:
• Found in 126 of 209 (60.3%) of genes in pham
• Manual Annotations of this start: 2 of 180
• Called 1.6% of time when present
• Phage (with cluster) where this start called: Amao_102 (E), Chidiebere_24 (DQ),

Start 30:
• Found in 15 of 209 (7.2%) 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: Bloom_190 (FC), FloraSnap32_181 (FC), FrostedClock_187 (FC), GoldenEssence_174 (FC), Ibantik_60 (JN), Kudefre_102 (DU1), Laure_187 (UNK), Mimi_186 (FC), Octobien14_100 (DU1), Patbob_185 (FC), Phrampa_178 (FC), Racecar_187 (FC), Sephiroth_99 (DU1), Syleon_102 (DU1), Talia1610_187 (FC),

Start 31:
• Found in 19 of 209 (9.1%) of genes in pham
• Manual Annotations of this start: 9 of 180
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Aloki_24 (DQ), Amoonguss_23 (DQ), Argena_23 (DQ), Beted_23 (DQ), ChisanaKitsune_20 (DQ), EmoNemo_23 (DQ), Farrylious_23 (DQ), Gray_24 (DQ), Hanem_24 (DQ), Kabocha_25 (DQ), Lenoshki_23 (DQ), Mikronejon_24 (DQ), MintFritos_23 (DQ), Oogie_24 (DQ), Pakusa_23 (DQ), Schomber_23 (DQ), Toneprano_23 (DQ), Twin_23 (DQ),

Start 35:
• Found in 1 of 209 (0.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Stewart25555_179 (FC),

Start 36:
• Found in 1 of 209 (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: Panchaali_179 (FC),

Start 38:
• Found in 2 of 209 (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: MyraDee_45 (A18), Stephig9_51 (A8),

Start 39:
• Found in 112 of 209 (53.6%) of genes in pham
• Manual Annotations of this start: 97 of 180
• Called 92.9% of time when present
• Phage (with cluster) where this start called: ABCat_99 (E), Adnama_106 (E), Argent26_106 (E), Asriel_100 (E), BadStone_99 (E), Balomoji_102 (E), Barbarian_101 (E), Bask21_102 (E), BigBubba_102 (E), BilboSwaggins_100 (E), Bogg_102 (E), Brewer_98 (E), Bruin_99 (E), Buck_103 (E), Cactus_106 (E), ChosenOne_102 (E), ChotaBhai_102 (E), Command613_104 (E), Contagion_98 (E), Cookies_99 (E), CrystalP_101 (E), Daikon_102 (E), DoctorDiddles_101 (E), DrDrey_102 (E), Dusk_99 (E), Easy2Say_102 (E), Elite2014_101 (E), Emmina_102 (E), Eureka_101 (E), FireRed_105 (E), Flypotenuse_98 (E), Gage_104 (E), Gator_100 (E), Gemini_107 (E), Goku_101 (E), GoldenSpark_106 (E), Goldilocks_105 (E), GooberAzure_105 (E), Greep_106 (E), Harella_102 (E), Henry_99 (E), Holt_107 (E), Hoonter_105 (E), HufflyPuff_104 (E), IHOP_100 (E), Icee_103 (E), Inca_99 (E), Kanye_99 (E), Kimchi_106 (E), Kostya_102 (E), Lilpickle_101 (E), Livelaughbron_103 (E), MISSy_103 (E), MPhalcon_103 (E), Manda_103 (E), Marshmallow_99 (E), Mindy_101 (E), Miniwave_97 (E), Misfit_103

(E), MollyToe_97 (E), Mosby_98 (E), Murica_105 (E), Myrale_102 (E), Nala_104 (E), NelitzaMV_99 (E), Nimrod_102 (E), NonchalantPear_102 (E), Paperbeatsrock_101 (E), Pat3_99 (E), Petra64142_106 (E), Phaja_100 (E), Pharsalus_99 (E), PhatBacter_105 (E), Phaux_104 (E), Policronamos_104 (E), Ptowny_98 (E), Quallification_103 (E), Rakim_103 (E), Rimmer_100 (E), Sassay_97 (E), ShamWow_102 (E), ShereKhan_100 (E), SirDuracell_102 (E), SophKB_100 (E), Sotrice96_103 (E), Stank_104 (E), StellaBean_101 (E), StolenFromERC_104 (E), StormChicken_103 (E), TBrady12_105 (E), Tarkin_101 (E), TeamEdward_102 (E), TeardropMSU_98 (E), Terminus_105 (E), Tomaszewski_97 (E), Toto_100 (E), Traaww1_98 (E), Tuco_103 (E), Wiggin_104 (E), Willez_97 (E), Xandras_101 (E), YassJohnny_99 (E), Youngblood_105 (E), xkcd_105 (E),

Start 42:
• Found in 10 of 209 (4.8%) of genes in pham
• Manual Annotations of this start: 10 of 180
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astro_50 (A8), Caitlin_50 (A8), Danforth_50 (A8), Dixon_50 (A8), Expelliarmus_50 (A8), Groundhog_49 (A8), NearlyHeadless_50 (A8), Roary_51 (A8), Saintus_45 (A8), Smeadley_51 (A8),

Start 45:
• Found in 131 of 209 (62.7%) of genes in pham
• Manual Annotations of this start: 4 of 180
• Called 5.3% of time when present
• Phage (with cluster) where this start called: Becksu_100 (E), BugsBunny_101 (E), FairyPath_103 (E), FoghornLeghorn_95 (E), Glexan_101 (E), Palpatine_103 (E), Thimble_104 (E),

Summary by clusters:

There are 20 clusters represented in this pham: A15, singleton, BI5, E, A12, UNK, AV, A18, EC, JN, FC, K6, DU1, A9, A8, DQ, EQ, A2, EA7, BI1,

Info for manual annotations of cluster A12:
•Start number 23 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:
•Start number 22 was manually annotated 10 times for cluster A15.

Info for manual annotations of cluster A18:
•Start number 38 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A2:
•Start number 22 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A8:
•Start number 38 was manually annotated 1 time for cluster A8.
•Start number 42 was manually annotated 10 times for cluster A8.

Info for manual annotations of cluster A9:
•Start number 21 was manually annotated 4 times for cluster A9.
•Start number 23 was manually annotated 1 time for cluster A9.

Info for manual annotations of cluster AV:
•Start number 26 was manually annotated 1 time for cluster AV.

Info for manual annotations of cluster BI1:
•Start number 27 was manually annotated 16 times for cluster BI1.

Info for manual annotations of cluster BI5:
•Start number 27 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster DQ:
•Start number 28 was manually annotated 1 time for cluster DQ.
•Start number 31 was manually annotated 9 times for cluster DQ.

Info for manual annotations of cluster DU1:
•Start number 30 was manually annotated 4 times for cluster DU1.

Info for manual annotations of cluster E:
•Start number 28 was manually annotated 1 time for cluster E.
•Start number 39 was manually annotated 97 times for cluster E.
•Start number 45 was manually annotated 4 times for cluster E.

Info for manual annotations of cluster EA7:
•Start number 25 was manually annotated 1 time for cluster EA7.

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

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

Info for manual annotations of cluster FC:
•Start number 30 was manually annotated 8 times for cluster FC.
•Start number 36 was manually annotated 1 time for cluster FC.

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

Info for manual annotations of cluster K6:
•Start number 24 was manually annotated 1 time for cluster K6.

Gene Information:

Gene: ABCat_99 Start: 61561, Stop: 61758, Start Num: 39
Candidate Starts for ABCat_99:
(5, 61384), (Start: 28 @61540 has 2 MA's), (Start: 39 @61561 has 97 MA's), (Start: 45 @61606 has 4 MA's), (49, 61624), (59, 61666), (64, 61720),

Gene: Adnama_106 Start: 60871, Stop: 61068, Start Num: 39
Candidate Starts for Adnama_106:

(5, 60694), (Start: 28 @60850 has 2 MA's), (Start: 39 @60871 has 97 MA's), (Start: 45 @60916 has 4 MA's), (49, 60934), (59, 60976), (64, 61030),

Gene: Aloki_24 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Aloki_24:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Amao_102 Start: 60964, Stop: 61182, Start Num: 28
Candidate Starts for Amao_102:
(5, 60808), (Start: 28 @60964 has 2 MA's), (Start: 39 @60985 has 97 MA's), (Start: 45 @61030 has 4 MA's), (49, 61048), (59, 61090), (64, 61144),

Gene: Amoonguss_23 Start: 11844, Stop: 12059, Start Num: 31
Candidate Starts for Amoonguss_23:
(18, 11787), (Start: 28 @11841 has 2 MA's), (Start: 31 @11844 has 9 MA's), (Start: 45 @11901 has 4 MA's), (52, 11934), (55, 11946), (56, 11949), (65, 12018),

Gene: Anon_46 Start: 30067, Stop: 29819, Start Num: 22
Candidate Starts for Anon_46:
(Start: 22 @30067 has 11 MA's), (56, 29935), (64, 29869),

Gene: Argena_23 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Argena_23:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Argent26_106 Start: 60795, Stop: 60992, Start Num: 39
Candidate Starts for Argent26_106:
(5, 60618), (Start: 28 @60774 has 2 MA's), (Start: 39 @60795 has 97 MA's), (Start: 45 @60840 has 4 MA's), (49, 60858), (59, 60900), (64, 60954),

Gene: Asriel_100 Start: 59208, Stop: 59405, Start Num: 39
Candidate Starts for Asriel_100:
(5, 59031), (Start: 28 @59187 has 2 MA's), (Start: 39 @59208 has 97 MA's), (Start: 45 @59253 has 4 MA's), (49, 59271), (59, 59313), (64, 59367),

Gene: Astro_50 Start: 34486, Stop: 34301, Start Num: 42
Candidate Starts for Astro_50:
(37, 34513), (Start: 42 @34486 has 10 MA's), (58, 34408), (63, 34360),

Gene: BadStone_99 Start: 61130, Stop: 61327, Start Num: 39
Candidate Starts for BadStone_99:
(5, 60953), (Start: 28 @61109 has 2 MA's), (Start: 39 @61130 has 97 MA's), (Start: 45 @61175 has 4 MA's), (49, 61193), (59, 61235), (64, 61289),

Gene: Balomoji_102 Start: 60991, Stop: 61188, Start Num: 39
Candidate Starts for Balomoji_102:
(5, 60814), (Start: 28 @60970 has 2 MA's), (Start: 39 @60991 has 97 MA's), (Start: 45 @61036 has 4 MA's), (49, 61054), (59, 61096), (64, 61150),

Gene: Barbarian_101 Start: 59208, Stop: 59405, Start Num: 39
Candidate Starts for Barbarian_101:

(5, 59031), (Start: 28 @59187 has 2 MA's), (Start: 39 @59208 has 97 MA's), (Start: 45 @59253 has 4 MA's), (49, 59271), (59, 59313), (64, 59367),

Gene: Bask21_102 Start: 59847, Stop: 60044, Start Num: 39
Candidate Starts for Bask21_102:
(5, 59670), (Start: 28 @59826 has 2 MA's), (Start: 39 @59847 has 97 MA's), (Start: 45 @59892 has 4 MA's), (49, 59910), (59, 59952), (64, 60006),

Gene: Battleship_52 Start: 31061, Stop: 30813, Start Num: 22
Candidate Starts for Battleship_52:
(Start: 22 @31061 has 11 MA's), (56, 30929), (64, 30863),

Gene: Becksu_100 Start: 61229, Stop: 61381, Start Num: 45
Candidate Starts for Becksu_100:
(5, 61007), (Start: 28 @61163 has 2 MA's), (Start: 39 @61184 has 97 MA's), (Start: 45 @61229 has 4 MA's), (49, 61247), (59, 61289), (64, 61343),

Gene: Bellris_48 Start: 31845, Stop: 31609, Start Num: 21
Candidate Starts for Bellris_48:
(2, 32046), (9, 31947), (Start: 21 @31845 has 4 MA's), (32, 31821), (64, 31653),

Gene: Beted_23 Start: 11467, Stop: 11682, Start Num: 31
Candidate Starts for Beted_23:
(Start: 28 @11464 has 2 MA's), (Start: 31 @11467 has 9 MA's), (Start: 45 @11524 has 4 MA's), (52, 11557), (56, 11572), (65, 11641),

Gene: BigAnti_27 Start: 33173, Stop: 33421, Start Num: 27
Candidate Starts for BigAnti_27:
(Start: 27 @33173 has 22 MA's), (60, 33308), (65, 33362),

Gene: BigBubba_102 Start: 59904, Stop: 60101, Start Num: 39
Candidate Starts for BigBubba_102:
(5, 59727), (Start: 28 @59883 has 2 MA's), (Start: 39 @59904 has 97 MA's), (Start: 45 @59949 has 4 MA's), (49, 59967), (59, 60009), (64, 60063),

Gene: BilboSwaggins_100 Start: 61530, Stop: 61727, Start Num: 39
Candidate Starts for BilboSwaggins_100:
(5, 61353), (Start: 28 @61509 has 2 MA's), (Start: 39 @61530 has 97 MA's), (Start: 45 @61575 has 4 MA's), (49, 61593), (59, 61635), (64, 61689),

Gene: Bing_31 Start: 25537, Stop: 25779, Start Num: 27
Candidate Starts for Bing_31:
(Start: 27 @25537 has 22 MA's), (65, 25729), (66, 25747),

Gene: Bloom_190 Start: 124505, Stop: 124735, Start Num: 30
Candidate Starts for Bloom_190:
(Start: 30 @124505 has 13 MA's), (65, 124682),

Gene: Bogg_102 Start: 61071, Stop: 61268, Start Num: 39
Candidate Starts for Bogg_102:
(5, 60894), (Start: 28 @61050 has 2 MA's), (Start: 39 @61071 has 97 MA's), (Start: 45 @61116 has 4 MA's), (49, 61134), (59, 61176), (64, 61230),

Gene: Brewer_98 Start: 59729, Stop: 59926, Start Num: 39
Candidate Starts for Brewer_98:
(5, 59552), (Start: 28 @59708 has 2 MA's), (Start: 39 @59729 has 97 MA's), (Start: 45 @59774 has 4 MA's), (49, 59792), (59, 59834), (64, 59888),

Gene: Bruin_99 Start: 60236, Stop: 60433, Start Num: 39
Candidate Starts for Bruin_99:
(5, 60059), (Start: 28 @60215 has 2 MA's), (Start: 39 @60236 has 97 MA's), (Start: 45 @60281 has 4 MA's), (49, 60299), (59, 60341), (64, 60395),

Gene: Buck_103 Start: 62073, Stop: 62270, Start Num: 39
Candidate Starts for Buck_103:
(5, 61896), (Start: 28 @62052 has 2 MA's), (Start: 39 @62073 has 97 MA's), (Start: 45 @62118 has 4 MA's), (49, 62136), (59, 62178), (64, 62232),

Gene: BugsBunny_101 Start: 61595, Stop: 61747, Start Num: 45
Candidate Starts for BugsBunny_101:
(5, 61373), (Start: 28 @61529 has 2 MA's), (Start: 39 @61550 has 97 MA's), (Start: 45 @61595 has 4 MA's), (49, 61613), (59, 61655), (64, 61709),

Gene: Cactus_106 Start: 60490, Stop: 60687, Start Num: 39
Candidate Starts for Cactus_106:
(5, 60313), (Start: 28 @60469 has 2 MA's), (Start: 39 @60490 has 97 MA's), (Start: 45 @60535 has 4 MA's), (49, 60553), (59, 60595), (64, 60649),

Gene: Caitlin_50 Start: 34479, Stop: 34294, Start Num: 42
Candidate Starts for Caitlin_50:
(37, 34506), (Start: 42 @34479 has 10 MA's), (58, 34401), (63, 34353),

Gene: CherryBlossom_30 Start: 25644, Stop: 25883, Start Num: 27
Candidate Starts for CherryBlossom_30:
(Start: 27 @25644 has 22 MA's), (61, 25803), (65, 25833),

Gene: Chidiebere_24 Start: 11838, Stop: 12056, Start Num: 28
Candidate Starts for Chidiebere_24:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (56, 11946), (63, 12000), (65, 12015),

Gene: ChisanaKitsune_20 Start: 10536, Stop: 10751, Start Num: 31
Candidate Starts for ChisanaKitsune_20:
(Start: 28 @10533 has 2 MA's), (Start: 31 @10536 has 9 MA's), (Start: 45 @10593 has 4 MA's), (52, 10626), (56, 10641), (63, 10695), (65, 10710),

Gene: ChosenOne_102 Start: 60439, Stop: 60636, Start Num: 39
Candidate Starts for ChosenOne_102:
(5, 60262), (Start: 28 @60418 has 2 MA's), (Start: 39 @60439 has 97 MA's), (Start: 45 @60484 has 4 MA's), (49, 60502), (59, 60544), (64, 60598),

Gene: ChotaBhai_102 Start: 60849, Stop: 61046, Start Num: 39
Candidate Starts for ChotaBhai_102:
(5, 60672), (Start: 28 @60828 has 2 MA's), (Start: 39 @60849 has 97 MA's), (Start: 45 @60894 has 4 MA's), (49, 60912), (64, 61008),

Gene: CogOmlette_47 Start: 31842, Stop: 31606, Start Num: 21
Candidate Starts for CogOmlette_47:
(2, 32043), (9, 31944), (Start: 21 @31842 has 4 MA's), (32, 31818), (64, 31650),

Gene: Command613_104 Start: 61005, Stop: 61202, Start Num: 39
Candidate Starts for Command613_104:
(5, 60828), (Start: 28 @60984 has 2 MA's), (Start: 39 @61005 has 97 MA's), (Start: 45 @61050 has 4 MA's), (49, 61068), (59, 61110), (64, 61164),

Gene: Contagion_98 Start: 60598, Stop: 60795, Start Num: 39
Candidate Starts for Contagion_98:
(5, 60421), (Start: 28 @60577 has 2 MA's), (Start: 39 @60598 has 97 MA's), (Start: 45 @60643 has 4 MA's), (49, 60661), (59, 60703), (64, 60757),

Gene: Cookies_99 Start: 60775, Stop: 60972, Start Num: 39
Candidate Starts for Cookies_99:
(5, 60598), (Start: 28 @60754 has 2 MA's), (Start: 39 @60775 has 97 MA's), (Start: 45 @60820 has 4 MA's), (49, 60838), (59, 60880), (64, 60934),

Gene: CrystalP_101 Start: 61530, Stop: 61727, Start Num: 39
Candidate Starts for CrystalP_101:
(5, 61353), (Start: 28 @61509 has 2 MA's), (Start: 39 @61530 has 97 MA's), (Start: 45 @61575 has 4 MA's), (49, 61593), (59, 61635), (64, 61689),

Gene: Daikon_102 Start: 60404, Stop: 60601, Start Num: 39
Candidate Starts for Daikon_102:
(5, 60227), (Start: 28 @60383 has 2 MA's), (Start: 39 @60404 has 97 MA's), (Start: 45 @60449 has 4 MA's), (49, 60467), (59, 60509), (64, 60563),

Gene: Danforth_50 Start: 34515, Stop: 34330, Start Num: 42
Candidate Starts for Danforth_50:
(37, 34542), (Start: 42 @34515 has 10 MA's), (58, 34437), (63, 34389),

Gene: Darrell_50 Start: 32937, Stop: 32701, Start Num: 21
Candidate Starts for Darrell_50:
(9, 33039), (Start: 21 @32937 has 4 MA's), (32, 32913), (64, 32745),

Gene: Dixon_50 Start: 34310, Stop: 34125, Start Num: 42
Candidate Starts for Dixon_50:
(6, 34505), (37, 34337), (Start: 42 @34310 has 10 MA's), (58, 34232), (63, 34184),

Gene: DoctorDiddles_101 Start: 60253, Stop: 60450, Start Num: 39
Candidate Starts for DoctorDiddles_101:
(5, 60076), (Start: 28 @60232 has 2 MA's), (Start: 39 @60253 has 97 MA's), (Start: 45 @60298 has 4 MA's), (49, 60316), (59, 60358), (64, 60412),

Gene: DrDrey_102 Start: 62268, Stop: 62465, Start Num: 39
Candidate Starts for DrDrey_102:
(5, 62091), (Start: 28 @62247 has 2 MA's), (Start: 39 @62268 has 97 MA's), (Start: 45 @62313 has 4 MA's), (49, 62331), (59, 62373), (64, 62427),

Gene: Dusk_99 Start: 60790, Stop: 60987, Start Num: 39
Candidate Starts for Dusk_99:

(5, 60613), (Start: 28 @60769 has 2 MA's), (Start: 39 @60790 has 97 MA's), (Start: 45 @60835 has 4 MA's), (49, 60853), (59, 60895), (64, 60949),

Gene: Easy2Say_102 Start: 61262, Stop: 61459, Start Num: 39
Candidate Starts for Easy2Say_102:
(5, 61085), (Start: 28 @61241 has 2 MA's), (Start: 39 @61262 has 97 MA's), (Start: 45 @61307 has 4 MA's), (49, 61325), (59, 61367), (64, 61421),

Gene: Elite2014_101 Start: 60438, Stop: 60635, Start Num: 39
Candidate Starts for Elite2014_101:
(5, 60261), (Start: 28 @60417 has 2 MA's), (Start: 39 @60438 has 97 MA's), (Start: 45 @60483 has 4 MA's), (49, 60501), (59, 60543), (64, 60597),

Gene: Emmina_102 Start: 60213, Stop: 60410, Start Num: 39
Candidate Starts for Emmina_102:
(5, 60036), (Start: 28 @60192 has 2 MA's), (Start: 39 @60213 has 97 MA's), (Start: 45 @60258 has 4 MA's), (49, 60276), (59, 60318), (64, 60372),

Gene: EmoNemo_23 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for EmoNemo_23:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Esketit_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Esketit_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: Eureka_101 Start: 61401, Stop: 61598, Start Num: 39
Candidate Starts for Eureka_101:
(5, 61224), (Start: 28 @61380 has 2 MA's), (Start: 39 @61401 has 97 MA's), (Start: 45 @61446 has 4 MA's), (49, 61464), (59, 61506), (64, 61560),

Gene: Expelliarmus_50 Start: 34544, Stop: 34359, Start Num: 42
Candidate Starts for Expelliarmus_50:
(37, 34571), (Start: 42 @34544 has 10 MA's), (58, 34466), (63, 34418),

Gene: FairyPath_103 Start: 61751, Stop: 61903, Start Num: 45
Candidate Starts for FairyPath_103:
(5, 61529), (Start: 28 @61685 has 2 MA's), (Start: 39 @61706 has 97 MA's), (Start: 45 @61751 has 4 MA's), (49, 61769), (59, 61811), (64, 61865),

Gene: Farrylious_23 Start: 11594, Stop: 11809, Start Num: 31
Candidate Starts for Farrylious_23:
(18, 11537), (Start: 28 @11591 has 2 MA's), (Start: 31 @11594 has 9 MA's), (Start: 45 @11651 has 4 MA's), (52, 11684), (55, 11696), (56, 11699), (65, 11768),

Gene: FidgetOrca_30 Start: 25633, Stop: 25872, Start Num: 27
Candidate Starts for FidgetOrca_30:
(Start: 27 @25633 has 22 MA's), (61, 25792), (65, 25822),

Gene: FireRed_105 Start: 61677, Stop: 61874, Start Num: 39
Candidate Starts for FireRed_105:

(5, 61500), (Start: 28 @61656 has 2 MA's), (Start: 39 @61677 has 97 MA's), (Start: 45 @61722 has 4 MA's), (49, 61740), (59, 61782), (64, 61836),

Gene: FloraSnap32_181 Start: 122836, Stop: 123066, Start Num: 30
Candidate Starts for FloraSnap32_181:
(Start: 30 @122836 has 13 MA's), (65, 123013),

Gene: Flypotenuse_98 Start: 59862, Stop: 60059, Start Num: 39
Candidate Starts for Flypotenuse_98:
(5, 59685), (Start: 28 @59841 has 2 MA's), (Start: 39 @59862 has 97 MA's), (Start: 45 @59907 has 4 MA's), (49, 59925), (59, 59967), (64, 60021),

Gene: FoghornLeghorn_95 Start: 58612, Stop: 58764, Start Num: 45
Candidate Starts for FoghornLeghorn_95:
(5, 58390), (Start: 28 @58546 has 2 MA's), (Start: 39 @58567 has 97 MA's), (Start: 45 @58612 has 4 MA's), (49, 58630), (59, 58672), (64, 58726),

Gene: FrostedClock_187 Start: 125166, Stop: 125396, Start Num: 30
Candidate Starts for FrostedClock_187:
(Start: 30 @125166 has 13 MA's), (65, 125343),

Gene: Gage_104 Start: 60933, Stop: 61130, Start Num: 39
Candidate Starts for Gage_104:
(5, 60756), (Start: 39 @60933 has 97 MA's), (Start: 45 @60978 has 4 MA's), (49, 60996), (59, 61038), (64, 61092),

Gene: Gator_100 Start: 60718, Stop: 60915, Start Num: 39
Candidate Starts for Gator_100:
(5, 60541), (Start: 28 @60697 has 2 MA's), (Start: 39 @60718 has 97 MA's), (Start: 45 @60763 has 4 MA's), (49, 60781), (59, 60823), (64, 60877),

Gene: Gemini_107 Start: 61312, Stop: 61509, Start Num: 39
Candidate Starts for Gemini_107:
(5, 61135), (Start: 28 @61291 has 2 MA's), (Start: 39 @61312 has 97 MA's), (Start: 45 @61357 has 4 MA's), (49, 61375), (59, 61417), (64, 61471),

Gene: Glexan_101 Start: 61037, Stop: 61189, Start Num: 45
Candidate Starts for Glexan_101:
(5, 60815), (Start: 28 @60971 has 2 MA's), (Start: 39 @60992 has 97 MA's), (Start: 45 @61037 has 4 MA's), (49, 61055), (59, 61097), (64, 61151),

Gene: Goku_101 Start: 61130, Stop: 61327, Start Num: 39
Candidate Starts for Goku_101:
(5, 60953), (Start: 28 @61109 has 2 MA's), (Start: 39 @61130 has 97 MA's), (Start: 45 @61175 has 4 MA's), (49, 61193), (59, 61235), (64, 61289),

Gene: GoldenEssence_174 Start: 118714, Stop: 118944, Start Num: 30
Candidate Starts for GoldenEssence_174:
(Start: 30 @118714 has 13 MA's), (65, 118891),

Gene: GoldenSpark_106 Start: 60795, Stop: 60992, Start Num: 39
Candidate Starts for GoldenSpark_106:

(5, 60618), (Start: 28 @60774 has 2 MA's), (Start: 39 @60795 has 97 MA's), (Start: 45 @60840 has 4 MA's), (49, 60858), (59, 60900), (64, 60954),

Gene: Goldilocks_105 Start: 60712, Stop: 60909, Start Num: 39
Candidate Starts for Goldilocks_105:
(5, 60535), (Start: 28 @60691 has 2 MA's), (Start: 39 @60712 has 97 MA's), (Start: 45 @60757 has 4 MA's), (49, 60775), (59, 60817), (64, 60871),

Gene: GooberAzure_105 Start: 60795, Stop: 60992, Start Num: 39
Candidate Starts for GooberAzure_105:
(5, 60618), (Start: 28 @60774 has 2 MA's), (Start: 39 @60795 has 97 MA's), (Start: 45 @60840 has 4 MA's), (49, 60858), (59, 60900), (64, 60954),

Gene: Gray_24 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Gray_24:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Greep_106 Start: 62367, Stop: 62564, Start Num: 39
Candidate Starts for Greep_106:
(5, 62190), (Start: 28 @62346 has 2 MA's), (Start: 39 @62367 has 97 MA's), (Start: 45 @62412 has 4 MA's), (49, 62430), (59, 62472), (64, 62526),

Gene: Groundhog_49 Start: 34442, Stop: 34257, Start Num: 42
Candidate Starts for Groundhog_49:
(6, 34637), (37, 34469), (Start: 42 @34442 has 10 MA's), (58, 34364), (63, 34316),

Gene: Hajile_31 Start: 25086, Stop: 25328, Start Num: 27
Candidate Starts for Hajile_31:
(Start: 27 @25086 has 22 MA's), (29, 25092), (65, 25278), (66, 25296),

Gene: Hanem_24 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Hanem_24:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Harella_102 Start: 61508, Stop: 61705, Start Num: 39
Candidate Starts for Harella_102:
(5, 61331), (Start: 28 @61487 has 2 MA's), (Start: 39 @61508 has 97 MA's), (Start: 45 @61553 has 4 MA's), (49, 61571), (59, 61613), (64, 61667),

Gene: Henry_99 Start: 60835, Stop: 61032, Start Num: 39
Candidate Starts for Henry_99:
(5, 60658), (Start: 28 @60814 has 2 MA's), (Start: 39 @60835 has 97 MA's), (Start: 45 @60880 has 4 MA's), (49, 60898), (59, 60940), (64, 60994),

Gene: Holt_107 Start: 61209, Stop: 61406, Start Num: 39
Candidate Starts for Holt_107:
(5, 61032), (Start: 28 @61188 has 2 MA's), (Start: 39 @61209 has 97 MA's), (Start: 45 @61254 has 4 MA's), (49, 61272), (59, 61314), (64, 61368),

Gene: Hoonter_105 Start: 61288, Stop: 61485, Start Num: 39
Candidate Starts for Hoonter_105:

(5, 61111), (Start: 28 @61267 has 2 MA's), (Start: 39 @61288 has 97 MA's), (Start: 45 @61333 has 4 MA's), (49, 61351), (59, 61393), (64, 61447),

Gene: Hoshi_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Hoshi_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: HufflyPuff_104 Start: 61903, Stop: 62100, Start Num: 39
Candidate Starts for HufflyPuff_104:
(5, 61726), (Start: 28 @61882 has 2 MA's), (Start: 39 @61903 has 97 MA's), (Start: 45 @61948 has 4 MA's), (49, 61966), (59, 62008), (64, 62062),

Gene: IHOP_100 Start: 60511, Stop: 60708, Start Num: 39
Candidate Starts for IHOP_100:
(5, 60334), (Start: 28 @60490 has 2 MA's), (Start: 39 @60511 has 97 MA's), (Start: 45 @60556 has 4 MA's), (49, 60574), (59, 60616), (64, 60670),

Gene: Ibantik_60 Start: 25970, Stop: 26188, Start Num: 30
Candidate Starts for Ibantik_60:
(3, 25754), (16, 25898), (17, 25901), (19, 25931), (Start: 30 @25970 has 13 MA's), (64, 26144),

Gene: IceWarrior_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for IceWarrior_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: Icee_103 Start: 60319, Stop: 60516, Start Num: 39
Candidate Starts for Icee_103:
(5, 60142), (Start: 28 @60298 has 2 MA's), (Start: 39 @60319 has 97 MA's), (Start: 45 @60364 has 4 MA's), (49, 60382), (59, 60424), (64, 60478),

Gene: Inca_99 Start: 59000, Stop: 59197, Start Num: 39
Candidate Starts for Inca_99:
(5, 58823), (Start: 28 @58979 has 2 MA's), (Start: 39 @59000 has 97 MA's), (Start: 45 @59045 has 4 MA's), (49, 59063), (59, 59105), (64, 59159),

Gene: Indigenous_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Indigenous_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: JSwag_50 Start: 30801, Stop: 30553, Start Num: 22
Candidate Starts for JSwag_50:
(Start: 22 @30801 has 11 MA's), (56, 30669), (64, 30603),

Gene: Jaylociraptor_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Jaylociraptor_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: Kabocha_25 Start: 12654, Stop: 12869, Start Num: 31
Candidate Starts for Kabocha_25:
(18, 12597), (Start: 28 @12651 has 2 MA's), (Start: 31 @12654 has 9 MA's), (Start: 45 @12711 has 4 MA's), (52, 12744), (55, 12756), (56, 12759), (65, 12828),

Gene: Kanye_99 Start: 61044, Stop: 61241, Start Num: 39

Candidate Starts for Kanye_99:
(5, 60867), (Start: 28 @61023 has 2 MA's), (Start: 39 @61044 has 97 MA's), (Start: 45 @61089 has 4 MA's), (49, 61107), (59, 61149), (64, 61203),

Gene: Kimchi_106 Start: 60936, Stop: 61133, Start Num: 39
Candidate Starts for Kimchi_106:
(5, 60759), (Start: 28 @60915 has 2 MA's), (Start: 39 @60936 has 97 MA's), (Start: 45 @60981 has 4 MA's), (49, 60999), (59, 61041), (64, 61095),

Gene: Kostya_102 Start: 60613, Stop: 60810, Start Num: 39
Candidate Starts for Kostya_102:
(5, 60436), (Start: 28 @60592 has 2 MA's), (Start: 39 @60613 has 97 MA's), (Start: 45 @60658 has 4 MA's), (49, 60676), (59, 60718), (64, 60772),

Gene: Kudefre_102 Start: 58639, Stop: 58851, Start Num: 30
Candidate Starts for Kudefre_102:
(Start: 30 @58639 has 13 MA's), (51, 58729), (57, 58750), (64, 58813), (67, 58843),

Gene: LadyJasley_12 Start: 5128, Stop: 5349, Start Num: 26
Candidate Starts for LadyJasley_12:
(Start: 26 @5128 has 1 MA's), (52, 5230), (57, 5248), (64, 5311),

Gene: Laure_187 Start: 116319, Stop: 116528, Start Num: 30
Candidate Starts for Laure_187:
(Start: 30 @116319 has 13 MA's), (41, 116349), (62, 116472), (65, 116496),

Gene: Lenoshki_23 Start: 11467, Stop: 11682, Start Num: 31
Candidate Starts for Lenoshki_23:
(Start: 28 @11464 has 2 MA's), (Start: 31 @11467 has 9 MA's), (Start: 45 @11524 has 4 MA's), (52, 11557), (56, 11572), (65, 11641),

Gene: Lilpickle_101 Start: 60438, Stop: 60635, Start Num: 39
Candidate Starts for Lilpickle_101:
(5, 60261), (Start: 28 @60417 has 2 MA's), (Start: 39 @60438 has 97 MA's), (Start: 45 @60483 has 4 MA's), (49, 60501), (59, 60543), (64, 60597),

Gene: Livelaughbron_103 Start: 62036, Stop: 62233, Start Num: 39
Candidate Starts for Livelaughbron_103:
(5, 61859), (Start: 28 @62015 has 2 MA's), (Start: 39 @62036 has 97 MA's), (Start: 45 @62081 has 4 MA's), (49, 62099), (59, 62141), (64, 62195),

Gene: LogiBear_50 Start: 30793, Stop: 30587, Start Num: 24
Candidate Starts for LogiBear_50:
(4, 30946), (Start: 24 @30793 has 1 MA's), (44, 30742), (56, 30694), (62, 30649), (64, 30628),

Gene: LoneWolf_49 Start: 32307, Stop: 32071, Start Num: 23
Candidate Starts for LoneWolf_49:
(8, 32427), (9, 32415), (Start: 23 @32307 has 2 MA's), (56, 32184), (64, 32118),

Gene: MISSy_103 Start: 61721, Stop: 61918, Start Num: 39
Candidate Starts for MISSy_103:
(5, 61544), (13, 61598), (Start: 28 @61700 has 2 MA's), (Start: 39 @61721 has 97 MA's), (Start: 45 @61766 has 4 MA's), (49, 61784), (59, 61826), (64, 61880),

Gene: MPhalcon_103 Start: 61138, Stop: 61335, Start Num: 39
Candidate Starts for MPhalcon_103:
(5, 60961), (Start: 28 @61117 has 2 MA's), (Start: 39 @61138 has 97 MA's), (Start: 45 @61183 has 4 MA's), (49, 61201), (59, 61243), (64, 61297),

Gene: Manda_103 Start: 61175, Stop: 61372, Start Num: 39
Candidate Starts for Manda_103:
(5, 60998), (Start: 28 @61154 has 2 MA's), (Start: 39 @61175 has 97 MA's), (Start: 45 @61220 has 4 MA's), (49, 61238), (59, 61280), (64, 61334),

Gene: Marshawn_5 Start: 936, Stop: 1178, Start Num: 24
Candidate Starts for Marshawn_5:
(Start: 24 @936 has 1 MA's), (46, 1017), (64, 1128),

Gene: Marshmallow_99 Start: 61133, Stop: 61330, Start Num: 39
Candidate Starts for Marshmallow_99:
(5, 60956), (Start: 28 @61112 has 2 MA's), (Start: 39 @61133 has 97 MA's), (Start: 45 @61178 has 4 MA's), (49, 61196), (59, 61238), (64, 61292),

Gene: Maya_30 Start: 25641, Stop: 25880, Start Num: 27
Candidate Starts for Maya_30:
(Start: 27 @25641 has 22 MA's), (61, 25800), (65, 25830),

Gene: Meibysrarus_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Meibysrarus_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: MicyPS_26 Start: 28079, Stop: 28330, Start Num: 27
Candidate Starts for MicyPS_26:
(11, 27974), (12, 27977), (13, 27983), (14, 27998), (15, 28010), (20, 28049), (Start: 27 @28079 has 22 MA's), (43, 28139), (49, 28169), (56, 28199), (59, 28211), (60, 28214), (63, 28253), (65, 28268), (69, 28304),

Gene: Mikronejon_24 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Mikronejon_24:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Mimi_186 Start: 124218, Stop: 124448, Start Num: 30
Candidate Starts for Mimi_186:
(Start: 30 @124218 has 13 MA's), (65, 124395),

Gene: Mindy_101 Start: 60454, Stop: 60651, Start Num: 39
Candidate Starts for Mindy_101:
(5, 60277), (Start: 28 @60433 has 2 MA's), (Start: 39 @60454 has 97 MA's), (Start: 45 @60499 has 4 MA's), (49, 60517), (59, 60559), (64, 60613),

Gene: MinecraftSteve_52 Start: 31065, Stop: 30817, Start Num: 22
Candidate Starts for MinecraftSteve_52:
(Start: 22 @31065 has 11 MA's), (56, 30933), (64, 30867),

Gene: Minispark_47 Start: 31839, Stop: 31603, Start Num: 21

Candidate Starts for Minispark_47:
(2, 32040), (9, 31941), (Start: 21 @31839 has 4 MA's), (32, 31815), (64, 31647),

Gene: Miniwave_97 Start: 60631, Stop: 60828, Start Num: 39
Candidate Starts for Miniwave_97:
(5, 60454), (Start: 28 @60610 has 2 MA's), (Start: 39 @60631 has 97 MA's), (Start: 45 @60676 has 4 MA's), (49, 60694), (59, 60736), (64, 60790),

Gene: MintFritos_23 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for MintFritos_23:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Misfit_103 Start: 62234, Stop: 62431, Start Num: 39
Candidate Starts for Misfit_103:
(5, 62057), (Start: 28 @62213 has 2 MA's), (Start: 39 @62234 has 97 MA's), (Start: 45 @62279 has 4 MA's), (49, 62297), (59, 62339), (64, 62393),

Gene: MollyToe_97 Start: 59032, Stop: 59229, Start Num: 39
Candidate Starts for MollyToe_97:
(5, 58855), (Start: 28 @59011 has 2 MA's), (Start: 39 @59032 has 97 MA's), (Start: 45 @59077 has 4 MA's), (49, 59095), (59, 59137), (64, 59191),

Gene: Mosby_98 Start: 60598, Stop: 60795, Start Num: 39
Candidate Starts for Mosby_98:
(5, 60421), (Start: 28 @60577 has 2 MA's), (Start: 39 @60598 has 97 MA's), (Start: 45 @60643 has 4 MA's), (49, 60661), (59, 60703), (64, 60757),

Gene: Murica_105 Start: 62937, Stop: 63134, Start Num: 39
Candidate Starts for Murica_105:
(5, 62760), (13, 62814), (Start: 28 @62916 has 2 MA's), (Start: 39 @62937 has 97 MA's), (Start: 45 @62982 has 4 MA's), (49, 63000), (59, 63042), (64, 63096),

Gene: MyraDee_45 Start: 32187, Stop: 31999, Start Num: 38
Candidate Starts for MyraDee_45:
(Start: 38 @32187 has 2 MA's), (58, 32094),

Gene: Myrale_102 Start: 61293, Stop: 61490, Start Num: 39
Candidate Starts for Myrale_102:
(5, 61116), (Start: 28 @61272 has 2 MA's), (Start: 39 @61293 has 97 MA's), (Start: 45 @61338 has 4 MA's), (49, 61356), (59, 61398), (64, 61452),

Gene: Nala_104 Start: 61647, Stop: 61844, Start Num: 39
Candidate Starts for Nala_104:
(5, 61470), (Start: 28 @61626 has 2 MA's), (Start: 39 @61647 has 97 MA's), (Start: 45 @61692 has 4 MA's), (49, 61710), (59, 61752), (64, 61806),

Gene: Namo_30 Start: 25633, Stop: 25872, Start Num: 27
Candidate Starts for Namo_30:
(Start: 27 @25633 has 22 MA's), (61, 25792), (65, 25822),

Gene: NearlyHeadless_50 Start: 34281, Stop: 34096, Start Num: 42
Candidate Starts for NearlyHeadless_50:

(7, 34473), (37, 34308), (Start: 42 @34281 has 10 MA's), (49, 34239), (58, 34203), (63, 34155),

Gene: NelitzaMV_99 Start: 59641, Stop: 59838, Start Num: 39
Candidate Starts for NelitzaMV_99:
(5, 59464), (Start: 28 @59620 has 2 MA's), (Start: 39 @59641 has 97 MA's), (Start: 45 @59686 has 4 MA's), (49, 59704), (59, 59746), (64, 59800),

Gene: Nimrod_102 Start: 61260, Stop: 61457, Start Num: 39
Candidate Starts for Nimrod_102:
(5, 61083), (Start: 28 @61239 has 2 MA's), (Start: 39 @61260 has 97 MA's), (Start: 45 @61305 has 4 MA's), (49, 61323), (59, 61365), (64, 61419),

Gene: NonchalantPear_102 Start: 59888, Stop: 60085, Start Num: 39
Candidate Starts for NonchalantPear_102:
(5, 59711), (Start: 39 @59888 has 97 MA's), (Start: 45 @59933 has 4 MA's), (49, 59951), (59, 59993), (64, 60047),

Gene: NoodlelyBoi_26 Start: 13691, Stop: 13933, Start Num: 27
Candidate Starts for NoodlelyBoi_26:
(Start: 27 @13691 has 22 MA's), (47, 13772), (62, 13859), (65, 13883),

Gene: Octobien14_100 Start: 58045, Stop: 58257, Start Num: 30
Candidate Starts for Octobien14_100:
(Start: 30 @58045 has 13 MA's), (51, 58135), (57, 58156), (64, 58219), (68, 58252),

Gene: OlympicHelado_30 Start: 25633, Stop: 25872, Start Num: 27
Candidate Starts for OlympicHelado_30:
(Start: 27 @25633 has 22 MA's), (61, 25792), (65, 25822),

Gene: Oogie_24 Start: 11493, Stop: 11708, Start Num: 31
Candidate Starts for Oogie_24:
(Start: 28 @11490 has 2 MA's), (Start: 31 @11493 has 9 MA's), (Start: 45 @11550 has 4 MA's), (52, 11583), (56, 11598), (65, 11667),

Gene: PSonyx_28 Start: 27311, Stop: 27562, Start Num: 27
Candidate Starts for PSonyx_28:
(Start: 27 @27311 has 22 MA's), (29, 27314), (43, 27371), (56, 27431), (57, 27434), (59, 27443), (60, 27446), (63, 27485), (65, 27500), (69, 27536), (70, 27539),

Gene: Pakusa_23 Start: 11583, Stop: 11798, Start Num: 31
Candidate Starts for Pakusa_23:
(18, 11526), (Start: 28 @11580 has 2 MA's), (Start: 31 @11583 has 9 MA's), (Start: 45 @11640 has 4 MA's), (52, 11673), (55, 11685), (56, 11688), (65, 11757),

Gene: Palpatine_103 Start: 61977, Stop: 62129, Start Num: 45
Candidate Starts for Palpatine_103:
(5, 61755), (Start: 28 @61911 has 2 MA's), (Start: 39 @61932 has 97 MA's), (Start: 45 @61977 has 4 MA's), (49, 61995), (59, 62037), (64, 62091),

Gene: Panchaali_179 Start: 122700, Stop: 122903, Start Num: 36
Candidate Starts for Panchaali_179:
(Start: 26 @122679 has 1 MA's), (Start: 36 @122700 has 1 MA's), (53, 122790), (65, 122871),

Gene: Paperbeatsrock_101 Start: 61309, Stop: 61506, Start Num: 39
Candidate Starts for Paperbeatsrock_101:
(5, 61132), (Start: 28 @61288 has 2 MA's), (Start: 39 @61309 has 97 MA's), (Start: 45 @61354 has 4 MA's), (49, 61372), (59, 61414), (64, 61468),

Gene: Pat3_99 Start: 59826, Stop: 60023, Start Num: 39
Candidate Starts for Pat3_99:
(5, 59649), (Start: 28 @59805 has 2 MA's), (Start: 39 @59826 has 97 MA's), (Start: 45 @59871 has 4 MA's), (49, 59889), (59, 59931), (64, 59985),

Gene: Patbob_185 Start: 125330, Stop: 125560, Start Num: 30
Candidate Starts for Patbob_185:
(Start: 30 @125330 has 13 MA's), (65, 125507),

Gene: Petra64142_106 Start: 61798, Stop: 61995, Start Num: 39
Candidate Starts for Petra64142_106:
(5, 61621), (Start: 28 @61777 has 2 MA's), (Start: 39 @61798 has 97 MA's), (Start: 45 @61843 has 4 MA's), (49, 61861), (59, 61903), (64, 61957),

Gene: Phaja_100 Start: 60513, Stop: 60710, Start Num: 39
Candidate Starts for Phaja_100:
(5, 60336), (Start: 28 @60492 has 2 MA's), (Start: 39 @60513 has 97 MA's), (Start: 45 @60558 has 4 MA's), (49, 60576), (59, 60618), (64, 60672),

Gene: Pharaoh_43 Start: 32085, Stop: 31876, Start Num: 23
Candidate Starts for Pharaoh_43:
(9, 32193), (10, 32181), (Start: 23 @32085 has 2 MA's), (49, 32010), (57, 31977), (64, 31914),

Gene: Pharsalus_99 Start: 61008, Stop: 61205, Start Num: 39
Candidate Starts for Pharsalus_99:
(5, 60831), (Start: 28 @60987 has 2 MA's), (Start: 39 @61008 has 97 MA's), (Start: 45 @61053 has 4 MA's), (49, 61071), (59, 61113), (64, 61167),

Gene: PhatBacter_105 Start: 61677, Stop: 61874, Start Num: 39
Candidate Starts for PhatBacter_105:
(5, 61500), (Start: 28 @61656 has 2 MA's), (Start: 39 @61677 has 97 MA's), (Start: 45 @61722 has 4 MA's), (49, 61740), (59, 61782), (64, 61836),

Gene: Phaux_104 Start: 62237, Stop: 62434, Start Num: 39
Candidate Starts for Phaux_104:
(5, 62060), (Start: 28 @62216 has 2 MA's), (Start: 39 @62237 has 97 MA's), (Start: 45 @62282 has 4 MA's), (49, 62300), (59, 62342), (64, 62396),

Gene: Phrampa_178 Start: 126373, Stop: 126600, Start Num: 30
Candidate Starts for Phrampa_178:
(Start: 30 @126373 has 13 MA's), (65, 126550),

Gene: Policronamos_104 Start: 61941, Stop: 62138, Start Num: 39
Candidate Starts for Policronamos_104:
(5, 61764), (Start: 28 @61920 has 2 MA's), (Start: 39 @61941 has 97 MA's), (Start: 45 @61986 has 4 MA's), (49, 62004), (59, 62046), (64, 62100),

Gene: Prudy_48 Start: 33069, Stop: 32833, Start Num: 22

Candidate Starts for Prudy_48:
(Start: 22 @33069 has 11 MA's), (60, 32931), (63, 32892), (64, 32880),

Gene: Ptowny_98 Start: 59349, Stop: 59546, Start Num: 39
Candidate Starts for Ptowny_98:
(5, 59172), (Start: 39 @59349 has 97 MA's), (Start: 45 @59394 has 4 MA's), (49, 59412), (59, 59454), (64, 59508),

Gene: Quallification_103 Start: 61723, Stop: 61920, Start Num: 39
Candidate Starts for Quallification_103:
(5, 61546), (Start: 28 @61702 has 2 MA's), (Start: 39 @61723 has 97 MA's), (Start: 45 @61768 has 4 MA's), (49, 61786), (59, 61828), (64, 61882),

Gene: Quhwah_29 Start: 14012, Stop: 14254, Start Num: 27
Candidate Starts for Quhwah_29:
(1, 13787), (Start: 27 @14012 has 22 MA's), (60, 14150), (62, 14180), (65, 14204),

Gene: Racecar_187 Start: 125098, Stop: 125328, Start Num: 30
Candidate Starts for Racecar_187:
(Start: 30 @125098 has 13 MA's), (65, 125275),

Gene: Rahalelujah_48 Start: 31854, Stop: 31618, Start Num: 21
Candidate Starts for Rahalelujah_48:
(2, 32055), (9, 31956), (Start: 21 @31854 has 4 MA's), (32, 31830), (64, 31662),

Gene: Rakim_103 Start: 60745, Stop: 60942, Start Num: 39
Candidate Starts for Rakim_103:
(5, 60568), (Start: 28 @60724 has 2 MA's), (Start: 39 @60745 has 97 MA's), (Start: 45 @60790 has 4 MA's), (49, 60808), (59, 60850), (64, 60904),

Gene: Remus_51 Start: 30778, Stop: 30533, Start Num: 22
Candidate Starts for Remus_51:
(Start: 22 @30778 has 11 MA's), (34, 30751), (53, 30661), (64, 30583),

Gene: Rima_30 Start: 25633, Stop: 25872, Start Num: 27
Candidate Starts for Rima_30:
(Start: 27 @25633 has 22 MA's), (61, 25792), (65, 25822),

Gene: Rimmer_100 Start: 61135, Stop: 61332, Start Num: 39
Candidate Starts for Rimmer_100:
(5, 60958), (Start: 28 @61114 has 2 MA's), (Start: 39 @61135 has 97 MA's), (Start: 45 @61180 has 4 MA's), (49, 61198), (59, 61240), (64, 61294),

Gene: Roary_51 Start: 34500, Stop: 34315, Start Num: 42
Candidate Starts for Roary_51:
(37, 34527), (Start: 42 @34500 has 10 MA's), (58, 34422), (63, 34374),

Gene: Rosalind_50 Start: 30984, Stop: 30736, Start Num: 22
Candidate Starts for Rosalind_50:
(Start: 22 @30984 has 11 MA's), (56, 30852), (64, 30786),

Gene: Saintus_45 Start: 31216, Stop: 31031, Start Num: 42
Candidate Starts for Saintus_45:

(37, 31243), (Start: 42 @31216 has 10 MA's), (56, 31144), (58, 31138), (63, 31090),

Gene: Sassay_97 Start: 59560, Stop: 59757, Start Num: 39
Candidate Starts for Sassay_97:
(5, 59383), (Start: 28 @59539 has 2 MA's), (Start: 39 @59560 has 97 MA's), (Start: 45 @59605 has 4 MA's), (49, 59623), (59, 59665), (64, 59719),

Gene: Schomber_23 Start: 11591, Stop: 11806, Start Num: 31
Candidate Starts for Schomber_23:
(18, 11534), (Start: 28 @11588 has 2 MA's), (Start: 31 @11591 has 9 MA's), (Start: 45 @11648 has 4 MA's), (52, 11681), (56, 11696), (63, 11750), (65, 11765),

Gene: Sephiroth_99 Start: 58611, Stop: 58823, Start Num: 30
Candidate Starts for Sephiroth_99:
(Start: 30 @58611 has 13 MA's), (51, 58701), (52, 58704), (57, 58722), (64, 58785),

Gene: ShamWow_102 Start: 61530, Stop: 61727, Start Num: 39
Candidate Starts for ShamWow_102:
(5, 61353), (Start: 28 @61509 has 2 MA's), (Start: 39 @61530 has 97 MA's), (Start: 45 @61575 has 4 MA's), (49, 61593), (59, 61635), (64, 61689),

Gene: ShereKhan_100 Start: 61969, Stop: 62166, Start Num: 39
Candidate Starts for ShereKhan_100:
(5, 61792), (Start: 28 @61948 has 2 MA's), (Start: 39 @61969 has 97 MA's), (Start: 45 @62014 has 4 MA's), (49, 62032), (59, 62074), (64, 62128),

Gene: SirDuracell_102 Start: 60347, Stop: 60544, Start Num: 39
Candidate Starts for SirDuracell_102:
(5, 60170), (Start: 28 @60326 has 2 MA's), (Start: 39 @60347 has 97 MA's), (Start: 45 @60392 has 4 MA's), (49, 60410), (59, 60452), (64, 60506),

Gene: Smeadley_51 Start: 34666, Stop: 34481, Start Num: 42
Candidate Starts for Smeadley_51:
(37, 34693), (Start: 42 @34666 has 10 MA's), (58, 34588), (63, 34540),

Gene: SophKB_100 Start: 60770, Stop: 60967, Start Num: 39
Candidate Starts for SophKB_100:
(5, 60593), (Start: 28 @60749 has 2 MA's), (Start: 39 @60770 has 97 MA's), (Start: 45 @60815 has 4 MA's), (49, 60833), (59, 60875), (64, 60929),

Gene: Sotrice96_103 Start: 61234, Stop: 61431, Start Num: 39
Candidate Starts for Sotrice96_103:
(5, 61057), (Start: 28 @61213 has 2 MA's), (Start: 39 @61234 has 97 MA's), (Start: 45 @61279 has 4 MA's), (49, 61297), (59, 61339), (64, 61393),

Gene: Spectropatronm_30 Start: 25627, Stop: 25866, Start Num: 27
Candidate Starts for Spectropatronm_30:
(Start: 27 @25627 has 22 MA's), (61, 25786), (65, 25816),

Gene: Stank_104 Start: 61008, Stop: 61205, Start Num: 39
Candidate Starts for Stank_104:
(5, 60831), (Start: 28 @60987 has 2 MA's), (Start: 39 @61008 has 97 MA's), (Start: 45 @61053 has 4 MA's), (49, 61071), (59, 61113), (64, 61167),

Gene: StellaBean_101 Start: 61370, Stop: 61567, Start Num: 39
Candidate Starts for StellaBean_101:
(5, 61193), (Start: 28 @61349 has 2 MA's), (Start: 39 @61370 has 97 MA's), (Start: 45 @61415 has 4 MA's), (49, 61433), (59, 61475), (64, 61529),

Gene: Stephig9_51 Start: 34732, Stop: 34514, Start Num: 38
Candidate Starts for Stephig9_51:
(Start: 38 @34732 has 2 MA's), (40, 34723), (41, 34714), (50, 34660), (54, 34648), (61, 34600),

Gene: Stewart25555_179 Start: 124346, Stop: 124552, Start Num: 35
Candidate Starts for Stewart25555_179:
(35, 124346), (65, 124520),

Gene: StolenFromERC_104 Start: 60933, Stop: 61130, Start Num: 39
Candidate Starts for StolenFromERC_104:
(5, 60756), (Start: 39 @60933 has 97 MA's), (Start: 45 @60978 has 4 MA's), (49, 60996), (59, 61038), (64, 61092),

Gene: StormChicken_103 Start: 61299, Stop: 61496, Start Num: 39
Candidate Starts for StormChicken_103:
(5, 61122), (Start: 28 @61278 has 2 MA's), (Start: 39 @61299 has 97 MA's), (Start: 45 @61344 has 4 MA's), (49, 61362), (59, 61404), (64, 61458),

Gene: Strosahl_51 Start: 30778, Stop: 30533, Start Num: 22
Candidate Starts for Strosahl_51:
(Start: 22 @30778 has 11 MA's), (34, 30751), (53, 30661), (64, 30583),

Gene: Switzerland_51 Start: 31164, Stop: 30916, Start Num: 22
Candidate Starts for Switzerland_51:
(Start: 22 @31164 has 11 MA's), (56, 31032), (64, 30966),

Gene: Syleon_102 Start: 58815, Stop: 59036, Start Num: 30
Candidate Starts for Syleon_102:
(Start: 30 @58815 has 13 MA's), (51, 58905), (57, 58926), (64, 58989),

Gene: TBrady12_105 Start: 60448, Stop: 60645, Start Num: 39
Candidate Starts for TBrady12_105:
(5, 60271), (Start: 28 @60427 has 2 MA's), (Start: 39 @60448 has 97 MA's), (Start: 45 @60493 has 4 MA's), (49, 60511), (59, 60553), (64, 60607),

Gene: TaidaOne_30 Start: 26275, Stop: 26514, Start Num: 27
Candidate Starts for TaidaOne_30:
(Start: 27 @26275 has 22 MA's), (61, 26434), (65, 26464),

Gene: Talia1610_187 Start: 124515, Stop: 124745, Start Num: 30
Candidate Starts for Talia1610_187:
(Start: 30 @124515 has 13 MA's), (65, 124692),

Gene: Taotie_24 Start: 24901, Stop: 25152, Start Num: 27
Candidate Starts for Taotie_24:
(Start: 27 @24901 has 22 MA's), (43, 24961), (48, 24988), (49, 24991), (56, 25021), (57, 25024), (59, 25033), (60, 25036), (63, 25075), (65, 25090), (69, 25126), (70, 25129),

Gene: Tarkin_101 Start: 61834, Stop: 62031, Start Num: 39
Candidate Starts for Tarkin_101:
(5, 61657), (Start: 28 @61813 has 2 MA's), (Start: 39 @61834 has 97 MA's), (Start: 45 @61879 has 4 MA's), (49, 61897), (59, 61939), (64, 61993),

Gene: TeamEdward_102 Start: 61496, Stop: 61693, Start Num: 39
Candidate Starts for TeamEdward_102:
(5, 61319), (Start: 28 @61475 has 2 MA's), (Start: 39 @61496 has 97 MA's), (Start: 45 @61541 has 4 MA's), (49, 61559), (59, 61601), (64, 61655),

Gene: TeardropMSU_98 Start: 60315, Stop: 60512, Start Num: 39
Candidate Starts for TeardropMSU_98:
(5, 60138), (Start: 28 @60294 has 2 MA's), (Start: 39 @60315 has 97 MA's), (Start: 45 @60360 has 4 MA's), (49, 60378), (59, 60420), (64, 60474),

Gene: Terminus_105 Start: 62234, Stop: 62431, Start Num: 39
Candidate Starts for Terminus_105:
(5, 62057), (Start: 28 @62213 has 2 MA's), (Start: 39 @62234 has 97 MA's), (Start: 45 @62279 has 4 MA's), (49, 62297), (59, 62339), (64, 62393),

Gene: Theresita_48 Start: 29943, Stop: 30182, Start Num: 25
Candidate Starts for Theresita_48:
(Start: 25 @29943 has 1 MA's), (33, 29967), (54, 30075), (60, 30099),

Gene: Thimble_104 Start: 60243, Stop: 60395, Start Num: 45
Candidate Starts for Thimble_104:
(5, 60021), (Start: 28 @60177 has 2 MA's), (Start: 39 @60198 has 97 MA's), (Start: 45 @60243 has 4 MA's), (49, 60261), (59, 60303), (64, 60357),

Gene: TieDye_29 Start: 25319, Stop: 25558, Start Num: 27
Candidate Starts for TieDye_29:
(Start: 27 @25319 has 22 MA's), (61, 25478), (65, 25508),

Gene: Tomaszewski_97 Start: 60772, Stop: 60969, Start Num: 39
Candidate Starts for Tomaszewski_97:
(5, 60595), (Start: 28 @60751 has 2 MA's), (Start: 39 @60772 has 97 MA's), (Start: 45 @60817 has 4 MA's), (49, 60835), (59, 60877), (64, 60931),

Gene: Toneprano_23 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Toneprano_23:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: TonyStarch_30 Start: 25633, Stop: 25872, Start Num: 27
Candidate Starts for TonyStarch_30:
(Start: 27 @25633 has 22 MA's), (61, 25792), (65, 25822),

Gene: Toto_100 Start: 61530, Stop: 61727, Start Num: 39
Candidate Starts for Toto_100:
(5, 61353), (Start: 28 @61509 has 2 MA's), (Start: 39 @61530 has 97 MA's), (Start: 45 @61575 has 4 MA's), (49, 61593), (59, 61635), (64, 61689),

Gene: Traaww1_98 Start: 60037, Stop: 60234, Start Num: 39
Candidate Starts for Traaww1_98:
(5, 59860), (Start: 28 @60016 has 2 MA's), (Start: 39 @60037 has 97 MA's), (Start: 45 @60082 has 4 MA's), (49, 60100), (59, 60142), (64, 60196),

Gene: Tuco_103 Start: 62395, Stop: 62592, Start Num: 39
Candidate Starts for Tuco_103:
(5, 62218), (Start: 28 @62374 has 2 MA's), (Start: 39 @62395 has 97 MA's), (Start: 45 @62440 has 4 MA's), (49, 62458), (59, 62500), (64, 62554),

Gene: Twin_23 Start: 11841, Stop: 12056, Start Num: 31
Candidate Starts for Twin_23:
(18, 11784), (Start: 28 @11838 has 2 MA's), (Start: 31 @11841 has 9 MA's), (Start: 45 @11898 has 4 MA's), (52, 11931), (55, 11943), (56, 11946), (65, 12015),

Gene: Vanisoa_48 Start: 33142, Stop: 32909, Start Num: 21
Candidate Starts for Vanisoa_48:
(2, 33343), (10, 33232), (Start: 21 @33142 has 4 MA's), (49, 33043), (59, 33001), (64, 32947),

Gene: Waits_51 Start: 30953, Stop: 30705, Start Num: 22
Candidate Starts for Waits_51:
(Start: 22 @30953 has 11 MA's), (56, 30821), (64, 30755),

Gene: Warrior24_52 Start: 31163, Stop: 30915, Start Num: 22
Candidate Starts for Warrior24_52:
(Start: 22 @31163 has 11 MA's), (56, 31031), (64, 30965),

Gene: Wigberry_30 Start: 25089, Stop: 25331, Start Num: 27
Candidate Starts for Wigberry_30:
(Start: 27 @25089 has 22 MA's), (29, 25095), (65, 25281), (66, 25299),

Gene: Wiggin_104 Start: 60438, Stop: 60635, Start Num: 39
Candidate Starts for Wiggin_104:
(5, 60261), (Start: 28 @60417 has 2 MA's), (Start: 39 @60438 has 97 MA's), (Start: 45 @60483 has 4 MA's), (49, 60501), (59, 60543), (64, 60597),

Gene: Willez_97 Start: 59560, Stop: 59757, Start Num: 39
Candidate Starts for Willez_97:
(5, 59383), (Start: 28 @59539 has 2 MA's), (Start: 39 @59560 has 97 MA's), (Start: 45 @59605 has 4 MA's), (49, 59623), (59, 59665), (64, 59719),

Gene: WorldCup_47 Start: 31848, Stop: 31612, Start Num: 21
Candidate Starts for WorldCup_47:
(2, 32049), (9, 31950), (Start: 21 @31848 has 4 MA's), (32, 31824), (64, 31656),

Gene: Xandras_101 Start: 60261, Stop: 60458, Start Num: 39
Candidate Starts for Xandras_101:
(5, 60084), (Start: 39 @60261 has 97 MA's), (Start: 45 @60306 has 4 MA's), (49, 60324), (59, 60366), (64, 60420),

Gene: YassJohnny_99 Start: 59581, Stop: 59778, Start Num: 39
Candidate Starts for YassJohnny_99:

(5, 59404), (Start: 28 @59560 has 2 MA's), (Start: 39 @59581 has 97 MA's), (Start: 45 @59626 has 4 MA's), (49, 59644), (59, 59686), (64, 59740),

Gene: Youngblood_105 Start: 61731, Stop: 61928, Start Num: 39
Candidate Starts for Youngblood_105:
(5, 61554), (Start: 28 @61710 has 2 MA's), (Start: 39 @61731 has 97 MA's), (Start: 45 @61776 has 4 MA's), (49, 61794), (59, 61836), (64, 61890),

Gene: xkcd_105 Start: 61915, Stop: 62112, Start Num: 39
Candidate Starts for xkcd_105:
(5, 61738), (Start: 28 @61894 has 2 MA's), (Start: 39 @61915 has 97 MA's), (Start: 45 @61960 has 4 MA's), (49, 61978), (59, 62020), (64, 62074),