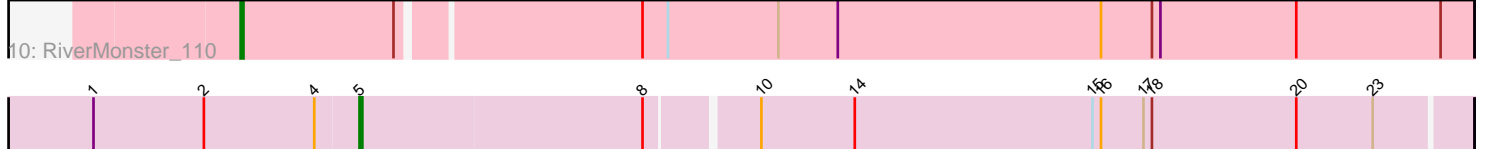
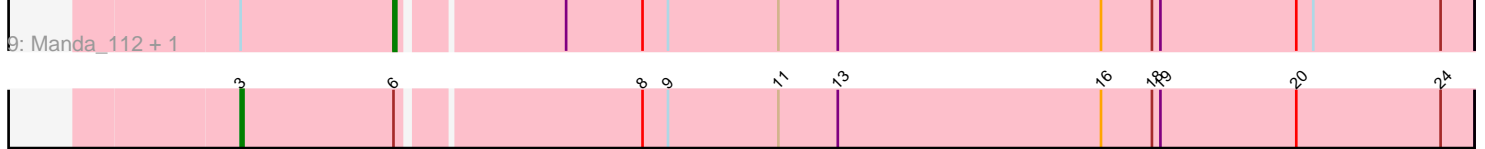
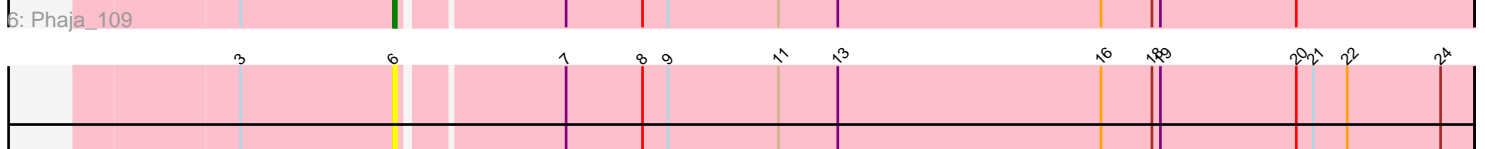
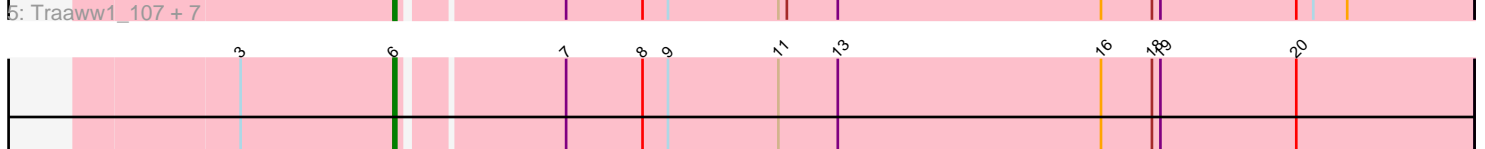
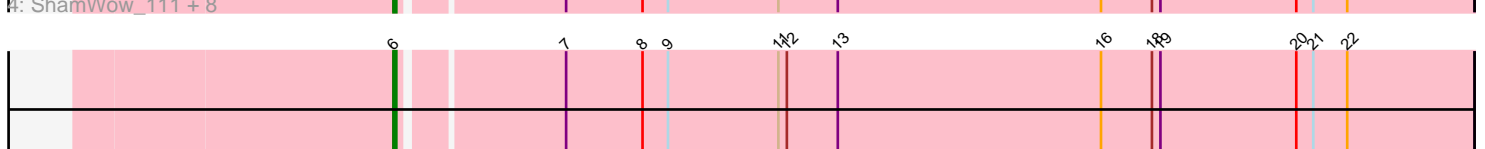
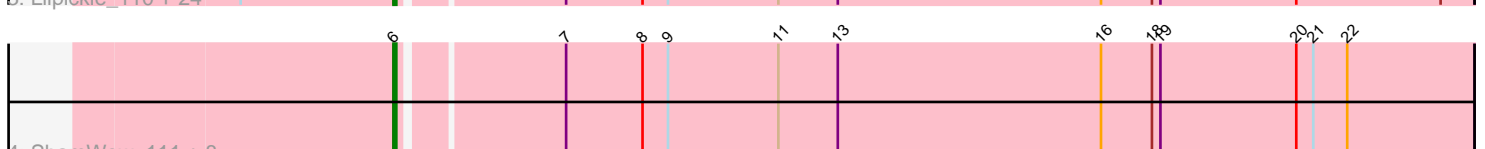
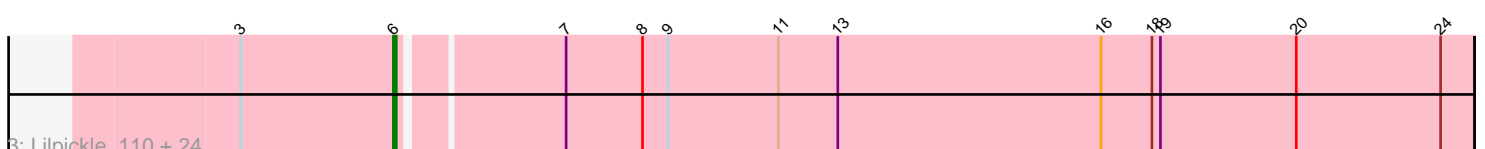
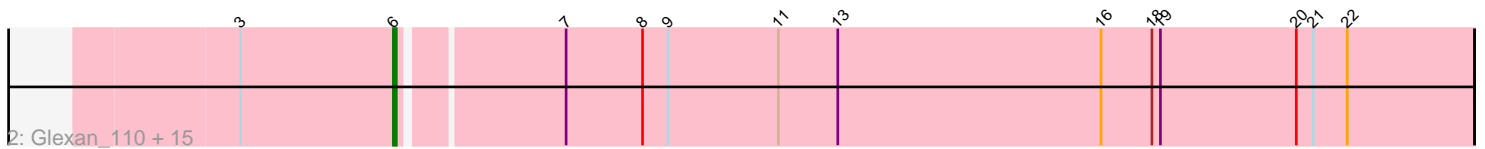
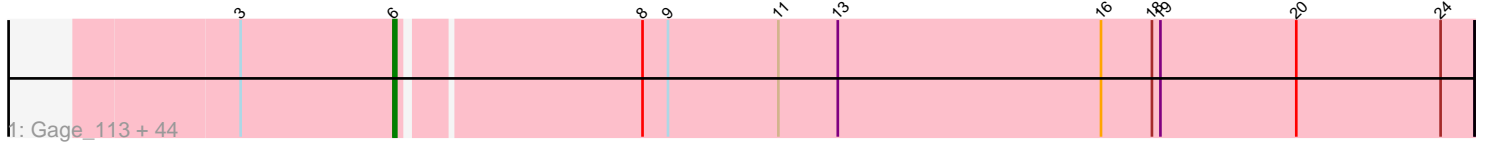


Pham 202806



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 202806 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202806 has 111 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Gage_113, Lilizi_111, Hopey_111, Stark_111, Paperbeatsrock_110, Contagion_108, Adnama_115, Murica_115, Pumpkin_112, Bruin_108, Tarkin_110, HufflyPuff_113, Sassay_106, Misfit_112, xkcd_115, StolenFromERC_113, Dumbo_111, FairyPath_111, MPhalcon_112, Qualification_112, YassJohnny_108, Hoonter_114, Youngblood_115, AmericanBeauty_114, Cjw1_111, Gemini_116, Policronamos_115, Thresher_112, Argent26_115, Miniwave_106, Pharsalus_108, Terminus_114, BugsBunny_110, Czyszczo1_111, Elph10_110, ShereKhan_109, Kanye_108, Mosby_108, Bench_113, MISSy_112, Willez_106, Phrux_107, Tomaszewski_106, GooberAzure_114, GoldenSpark_115
- Track 2 : Glexan_110, DrDrey_111, Kostya_111, Mindy_110, Harella_112, Sotrice96_112, TeardropMSU_107, ABCat_108, Cactus_115, SophKB_109, Dusk_108, Daikon_112, Tuco_112, Rakim_112, BadStone_108, IHOP_109
- Track 3 : Lilpickle_110, Emmina_111, PhatBacter_114, Phaux_113, HanKaySha_111, Moldemort_113, Elite2014_110, NelitzaMV_108, ChosenOne_111, Maxxinista_113, Buck_112, Easy2Say_111, Murphy_110, FireRed_114, Lilac_112, Rimmer_109, StellaBean_109, Palpatine_112, Highbury_107, MadamMonkfish_110, OrionPax_109, NoSleep_111, Saints25_107, Nala_113, Simpliphy_109
- Track 4 : ShamWow_111, Henry_109, Cookies_108, SirDuracell_111, Bask21_111, Command613_113, Gator_109, Myrale_111, Toto_109
- Track 5 : Traaww1_107, Pat3_108, ChotaBhai_111, Barbarian_110, Flypotenuse_107, Asriel_109, Balomoji_111, Amao_111
- Track 6 : Phaja_109
- Track 7 : Petra64142_115
- Track 8 : BilboSwaggins_110, CrystalIP_111
- Track 9 : Manda_112, Eureka_111
- Track 10 : RiverMonster_110
- Track 11 : DS6A_81

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

The start number called the most often in the published annotations is 6, it was called in 101 of the 103 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ABCat_108, Adnama_115, Amao_111, AmericanBeauty_114, Argent26_115, Asriel_109, BadStone_108, Balomoji_111, Barbarian_110, Bask21_111, Bench_113, BilboSwaggins_110, Bruin_108, Buck_112, BugsBunny_110, Cactus_115, ChosenOne_111, ChotaBhai_111, Cjw1_111, Command613_113, Contagion_108, Cookies_108, CrystalP_111, Czyszczone1_111, Daikon_112, DrDrey_111, Dumbo_111, Dusk_108, Easy2Say_111, Elite2014_110, Elph10_110, Emmina_111, Eureka_111, FairyPath_111, FireRed_114, Flypotenuse_107, Gage_113, Gator_109, Gemini_116, Glexan_110, GoldenSpark_115, GooberAzure_114, HanKaySha_111, Harella_112, Henry_109, Highbury_107, Hoonter_114, Hopey_111, HufflyPuff_113, IHOP_109, Kanye_108, Kostya_111, Lilac_112, Lilizi_111, Lilipickle_110, MISSy_112, MPhalcon_112, MadamMonkfish_110, Manda_112, Maxxinista_113, Mindy_110, Miniwave_106, Misfit_112, Moldemort_113, Mosby_108, Murica_115, Murphy_110, Myrale_111, Nala_113, NelitzaMV_108, NoSleep_111, OrionPax_109, Palpatine_112, Paperbeatsrock_110, Pat3_108, Petra64142_115, Phaja_109, Pharsalus_108, PhatBacter_114, Phaux_113, Phrux_107, Policronamos_115, Pumpkin_112, Qualification_112, Rakim_112, Rimmer_109, Saints25_107, Sassay_106, ShamWow_111, ShereKhan_109, Simpliphy_109, SirDuracell_111, SophKB_109, Sotrice96_112, Stark_111, StellaBean_109, StolenFromERC_113, Tarkin_110, TeardropMSU_107, Terminus_114, Thresher_112, Tomaszewski_106, Toto_109, Traaww1_107, Tuco_112, Willez_106, YassJohnny_108, Youngblood_115, xkcd_115,

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

- RiverMonster_110,

Genes that do not have the "Most Annotated" start:

- DS6A_81,

Summary by start number:

Start 3:

- Found in 93 of 111 (83.8%) of genes in pham
- Manual Annotations of this start: 1 of 103
- Called 1.1% of time when present
- Phage (with cluster) where this start called: RiverMonster_110 (E),

Start 5:

- Found in 1 of 111 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 103
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A_81 (singleton),

Start 6:

- Found in 110 of 111 (99.1%) of genes in pham
- Manual Annotations of this start: 101 of 103
- Called 99.1% of time when present
- Phage (with cluster) where this start called: ABCat_108 (E), Adnama_115 (E), Amao_111 (E), AmericanBeauty_114 (E), Argent26_115 (E), Asriel_109 (E), BadStone_108 (E), Balomoji_111 (E), Barbarian_110 (E), Bask21_111 (E), Bench_113 (E), BilboSwaggins_110 (E), Bruin_108 (E), Buck_112 (E), BugsBunny_110 (E), Cactus_115 (E), ChosenOne_111 (E), ChotaBhai_111 (E), Cjw1_111 (E), Command613_113 (E), Contagion_108 (E), Cookies_108 (E), CrystalP_111 (E), Czyszczone1_111 (E), Daikon_112 (E), DrDrey_111 (E),

Dumbo_111 (E), Dusk_108 (E), Easy2Say_111 (E), Elite2014_110 (E), Elph10_110 (E), Emmina_111 (E), Eureka_111 (E), FairyPath_111 (E), FireRed_114 (E), Flypotenuse_107 (E), Gage_113 (E), Gator_109 (E), Gemini_116 (E), Glexan_110 (E), GoldenSpark_115 (E), GooberAzure_114 (E), HanKaySha_111 (E), Harella_112 (E), Henry_109 (E), Highbury_107 (E), Hoonter_114 (E), Hopey_111 (E), HufflyPuff_113 (E), IHOP_109 (E), Kanye_108 (E), Kostya_111 (E), Lilac_112 (E), Lilizi_111 (E), Lilpickle_110 (E), MISSy_112 (E), MPhalcon_112 (E), MadamMonkfish_110 (E), Manda_112 (E), Maxxinista_113 (E), Mindy_110 (E), Miniwave_106 (E), Misfit_112 (E), Moldemort_113 (E), Mosby_108 (E), Murica_115 (E), Murphy_110 (E), Myrale_111 (E), Nala_113 (E), NelitzaMV_108 (E), NoSleep_111 (E), OrionPax_109 (E), Palpatine_112 (E), Paperbeatsrock_110 (E), Pat3_108 (E), Petra64142_115 (E), Phaja_109 (E), Pharsalus_108 (E), PhatBacter_114 (E), Phaux_113 (E), Phrux_107 (E), Policronamos_115 (E), Pumpkin_112 (E), Quallification_112 (E), Rakim_112 (E), Rimmer_109 (E), Saints25_107 (E), Sassay_106 (E), ShamWow_111 (E), ShereKhan_109 (E), Simpliphy_109 (E), SirDuracell_111 (E), SophKB_109 (E), Sotrice96_112 (E), Stark_111 (E), StellaBean_109 (E), StolenFromERC_113 (E), Tarkin_110 (E), TeardropMSU_107 (E), Terminus_114 (E), Thresher_112 (E), Tomaszewski_106 (E), Toto_109 (E), Traaww1_107 (E), Tuco_112 (E), Willez_106 (E), YassJohnny_108 (E), Youngblood_115 (E), xkcd_115 (E),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, E,

Info for manual annotations of cluster E:

- Start number 3 was manually annotated 1 time for cluster E.
- Start number 6 was manually annotated 101 times for cluster E.

Gene Information:

Gene: ABCat_108 Start: 64031, Stop: 64405, Start Num: 6

Candidate Starts for ABCat_108:

(Start: 3 @63977 has 1 MA's), (Start: 6 @64031 has 101 MA's), (7, 64085), (8, 64112), (9, 64121), (11, 64160), (13, 64181), (16, 64274), (18, 64292), (19, 64295), (20, 64343), (21, 64349), (22, 64361),

Gene: Adnama_115 Start: 63320, Stop: 63694, Start Num: 6

Candidate Starts for Adnama_115:

(Start: 3 @63266 has 1 MA's), (Start: 6 @63320 has 101 MA's), (8, 63401), (9, 63410), (11, 63449), (13, 63470), (16, 63563), (18, 63581), (19, 63584), (20, 63632), (24, 63683),

Gene: Amao_111 Start: 63594, Stop: 63968, Start Num: 6

Candidate Starts for Amao_111:

(Start: 6 @63594 has 101 MA's), (7, 63648), (8, 63675), (9, 63684), (11, 63723), (12, 63726), (13, 63744), (16, 63837), (18, 63855), (19, 63858), (20, 63906), (21, 63912), (22, 63924),

Gene: AmericanBeauty_114 Start: 63362, Stop: 63736, Start Num: 6

Candidate Starts for AmericanBeauty_114:

(Start: 3 @63308 has 1 MA's), (Start: 6 @63362 has 101 MA's), (8, 63443), (9, 63452), (11, 63491), (13, 63512), (16, 63605), (18, 63623), (19, 63626), (20, 63674), (24, 63725),

Gene: Argent26_115 Start: 63244, Stop: 63618, Start Num: 6

Candidate Starts for Argent26_115:

(Start: 3 @63190 has 1 MA's), (Start: 6 @63244 has 101 MA's), (8, 63325), (9, 63334), (11, 63373), (13, 63394), (16, 63487), (18, 63505), (19, 63508), (20, 63556), (24, 63607),

Gene: Asriel_109 Start: 61777, Stop: 62151, Start Num: 6

Candidate Starts for Asriel_109:

(Start: 6 @61777 has 101 MA's), (7, 61831), (8, 61858), (9, 61867), (11, 61906), (12, 61909), (13, 61927), (16, 62020), (18, 62038), (19, 62041), (20, 62089), (21, 62095), (22, 62107),

Gene: BadStone_108 Start: 63579, Stop: 63953, Start Num: 6

Candidate Starts for BadStone_108:

(Start: 3 @63525 has 1 MA's), (Start: 6 @63579 has 101 MA's), (7, 63633), (8, 63660), (9, 63669), (11, 63708), (13, 63729), (16, 63822), (18, 63840), (19, 63843), (20, 63891), (21, 63897), (22, 63909),

Gene: Balomoji_111 Start: 63560, Stop: 63934, Start Num: 6

Candidate Starts for Balomoji_111:

(Start: 6 @63560 has 101 MA's), (7, 63614), (8, 63641), (9, 63650), (11, 63689), (12, 63692), (13, 63710), (16, 63803), (18, 63821), (19, 63824), (20, 63872), (21, 63878), (22, 63890),

Gene: Barbarian_110 Start: 61777, Stop: 62151, Start Num: 6

Candidate Starts for Barbarian_110:

(Start: 6 @61777 has 101 MA's), (7, 61831), (8, 61858), (9, 61867), (11, 61906), (12, 61909), (13, 61927), (16, 62020), (18, 62038), (19, 62041), (20, 62089), (21, 62095), (22, 62107),

Gene: Bask21_111 Start: 62396, Stop: 62770, Start Num: 6

Candidate Starts for Bask21_111:

(Start: 6 @62396 has 101 MA's), (7, 62450), (8, 62477), (9, 62486), (11, 62525), (13, 62546), (16, 62639), (18, 62657), (19, 62660), (20, 62708), (21, 62714), (22, 62726),

Gene: Bench_113 Start: 64001, Stop: 64375, Start Num: 6

Candidate Starts for Bench_113:

(Start: 3 @63947 has 1 MA's), (Start: 6 @64001 has 101 MA's), (8, 64082), (9, 64091), (11, 64130), (13, 64151), (16, 64244), (18, 64262), (19, 64265), (20, 64313), (24, 64364),

Gene: BilboSwaggins_110 Start: 64057, Stop: 64431, Start Num: 6

Candidate Starts for BilboSwaggins_110:

(Start: 3 @64003 has 1 MA's), (Start: 6 @64057 has 101 MA's), (8, 64138), (9, 64147), (11, 64186), (13, 64207), (16, 64300), (18, 64318), (19, 64321), (20, 64369), (21, 64375), (22, 64387),

Gene: Bruin_108 Start: 62685, Stop: 63059, Start Num: 6

Candidate Starts for Bruin_108:

(Start: 3 @62631 has 1 MA's), (Start: 6 @62685 has 101 MA's), (8, 62766), (9, 62775), (11, 62814), (13, 62835), (16, 62928), (18, 62946), (19, 62949), (20, 62997), (24, 63048),

Gene: Buck_112 Start: 64501, Stop: 64875, Start Num: 6

Candidate Starts for Buck_112:

(Start: 3 @64447 has 1 MA's), (Start: 6 @64501 has 101 MA's), (7, 64555), (8, 64582), (9, 64591), (11, 64630), (13, 64651), (16, 64744), (18, 64762), (19, 64765), (20, 64813), (24, 64864),

Gene: BugsBunny_110 Start: 63999, Stop: 64373, Start Num: 6

Candidate Starts for BugsBunny_110:

(Start: 3 @63945 has 1 MA's), (Start: 6 @63999 has 101 MA's), (8, 64080), (9, 64089), (11, 64128), (13, 64149), (16, 64242), (18, 64260), (19, 64263), (20, 64311), (24, 64362),

Gene: Cactus_115 Start: 62939, Stop: 63313, Start Num: 6

Candidate Starts for Cactus_115:

(Start: 3 @62885 has 1 MA's), (Start: 6 @62939 has 101 MA's), (7, 62993), (8, 63020), (9, 63029), (11, 63068), (13, 63089), (16, 63182), (18, 63200), (19, 63203), (20, 63251), (21, 63257), (22, 63269),

Gene: ChosenOne_111 Start: 62885, Stop: 63259, Start Num: 6

Candidate Starts for ChosenOne_111:

(Start: 3 @62831 has 1 MA's), (Start: 6 @62885 has 101 MA's), (7, 62939), (8, 62966), (9, 62975), (11, 63014), (13, 63035), (16, 63128), (18, 63146), (19, 63149), (20, 63197), (24, 63248),

Gene: ChotaBhai_111 Start: 63338, Stop: 63712, Start Num: 6

Candidate Starts for ChotaBhai_111:

(Start: 6 @63338 has 101 MA's), (7, 63392), (8, 63419), (9, 63428), (11, 63467), (12, 63470), (13, 63488), (16, 63581), (18, 63599), (19, 63602), (20, 63650), (21, 63656), (22, 63668),

Gene: Cjw1_111 Start: 64694, Stop: 65068, Start Num: 6

Candidate Starts for Cjw1_111:

(Start: 3 @64640 has 1 MA's), (Start: 6 @64694 has 101 MA's), (8, 64775), (9, 64784), (11, 64823), (13, 64844), (16, 64937), (18, 64955), (19, 64958), (20, 65006), (24, 65057),

Gene: Command613_113 Start: 63553, Stop: 63927, Start Num: 6

Candidate Starts for Command613_113:

(Start: 6 @63553 has 101 MA's), (7, 63607), (8, 63634), (9, 63643), (11, 63682), (13, 63703), (16, 63796), (18, 63814), (19, 63817), (20, 63865), (21, 63871), (22, 63883),

Gene: Contagion_108 Start: 63047, Stop: 63421, Start Num: 6

Candidate Starts for Contagion_108:

(Start: 3 @62993 has 1 MA's), (Start: 6 @63047 has 101 MA's), (8, 63128), (9, 63137), (11, 63176), (13, 63197), (16, 63290), (18, 63308), (19, 63311), (20, 63359), (24, 63410),

Gene: Cookies_108 Start: 63324, Stop: 63698, Start Num: 6

Candidate Starts for Cookies_108:

(Start: 6 @63324 has 101 MA's), (7, 63378), (8, 63405), (9, 63414), (11, 63453), (13, 63474), (16, 63567), (18, 63585), (19, 63588), (20, 63636), (21, 63642), (22, 63654),

Gene: CrystalP_111 Start: 64057, Stop: 64431, Start Num: 6

Candidate Starts for CrystalP_111:

(Start: 3 @64003 has 1 MA's), (Start: 6 @64057 has 101 MA's), (8, 64138), (9, 64147), (11, 64186), (13, 64207), (16, 64300), (18, 64318), (19, 64321), (20, 64369), (21, 64375), (22, 64387),

Gene: Czyszczone1_111 Start: 63040, Stop: 63414, Start Num: 6

Candidate Starts for Czyszczone1_111:

(Start: 3 @62986 has 1 MA's), (Start: 6 @63040 has 101 MA's), (8, 63121), (9, 63130), (11, 63169), (13, 63190), (16, 63283), (18, 63301), (19, 63304), (20, 63352), (24, 63403),

Gene: DS6A_81 Start: 51791, Stop: 52174, Start Num: 5

Candidate Starts for DS6A_81:

(1, 51698), (2, 51737), (4, 51776), (Start: 5 @51791 has 1 MA's), (8, 51890), (10, 51926), (14, 51959), (15, 52043), (16, 52046), (17, 52061), (18, 52064), (20, 52115), (23, 52142),

Gene: Daikon_112 Start: 62856, Stop: 63230, Start Num: 6

Candidate Starts for Daikon_112:

(Start: 3 @62802 has 1 MA's), (Start: 6 @62856 has 101 MA's), (7, 62910), (8, 62937), (9, 62946), (11, 62985), (13, 63006), (16, 63099), (18, 63117), (19, 63120), (20, 63168), (21, 63174), (22, 63186),

Gene: DrDrey_111 Start: 64717, Stop: 65091, Start Num: 6

Candidate Starts for DrDrey_111:

(Start: 3 @64663 has 1 MA's), (Start: 6 @64717 has 101 MA's), (7, 64771), (8, 64798), (9, 64807), (11, 64846), (13, 64867), (16, 64960), (18, 64978), (19, 64981), (20, 65029), (21, 65035), (22, 65047),

Gene: Dumbo_111 Start: 63077, Stop: 63451, Start Num: 6

Candidate Starts for Dumbo_111:

(Start: 3 @63023 has 1 MA's), (Start: 6 @63077 has 101 MA's), (8, 63158), (9, 63167), (11, 63206), (13, 63227), (16, 63320), (18, 63338), (19, 63341), (20, 63389), (24, 63440),

Gene: Dusk_108 Start: 63239, Stop: 63613, Start Num: 6

Candidate Starts for Dusk_108:

(Start: 3 @63185 has 1 MA's), (Start: 6 @63239 has 101 MA's), (7, 63293), (8, 63320), (9, 63329), (11, 63368), (13, 63389), (16, 63482), (18, 63500), (19, 63503), (20, 63551), (21, 63557), (22, 63569),

Gene: Easy2Say_111 Start: 63711, Stop: 64085, Start Num: 6

Candidate Starts for Easy2Say_111:

(Start: 3 @63657 has 1 MA's), (Start: 6 @63711 has 101 MA's), (7, 63765), (8, 63792), (9, 63801), (11, 63840), (13, 63861), (16, 63954), (18, 63972), (19, 63975), (20, 64023), (24, 64074),

Gene: Elite2014_110 Start: 62884, Stop: 63258, Start Num: 6

Candidate Starts for Elite2014_110:

(Start: 3 @62830 has 1 MA's), (Start: 6 @62884 has 101 MA's), (7, 62938), (8, 62965), (9, 62974), (11, 63013), (13, 63034), (16, 63127), (18, 63145), (19, 63148), (20, 63196), (24, 63247),

Gene: Elph10_110 Start: 62723, Stop: 63097, Start Num: 6

Candidate Starts for Elph10_110:

(Start: 3 @62669 has 1 MA's), (Start: 6 @62723 has 101 MA's), (8, 62804), (9, 62813), (11, 62852), (13, 62873), (16, 62966), (18, 62984), (19, 62987), (20, 63035), (24, 63086),

Gene: Emmina_111 Start: 62662, Stop: 63036, Start Num: 6

Candidate Starts for Emmina_111:

(Start: 3 @62608 has 1 MA's), (Start: 6 @62662 has 101 MA's), (7, 62716), (8, 62743), (9, 62752), (11, 62791), (13, 62812), (16, 62905), (18, 62923), (19, 62926), (20, 62974), (24, 63025),

Gene: Eureka_111 Start: 63850, Stop: 64224, Start Num: 6

Candidate Starts for Eureka_111:

(Start: 3 @63796 has 1 MA's), (Start: 6 @63850 has 101 MA's), (7, 63904), (8, 63931), (9, 63940), (11, 63979), (13, 64000), (16, 64093), (18, 64111), (19, 64114), (20, 64162), (21, 64168), (24, 64213),

Gene: FairyPath_111 Start: 64155, Stop: 64529, Start Num: 6

Candidate Starts for FairyPath_111:

(Start: 3 @64101 has 1 MA's), (Start: 6 @64155 has 101 MA's), (8, 64236), (9, 64245), (11, 64284), (13, 64305), (16, 64398), (18, 64416), (19, 64419), (20, 64467), (24, 64518),

Gene: FireRed_114 Start: 64126, Stop: 64500, Start Num: 6

Candidate Starts for FireRed_114:

(Start: 3 @64072 has 1 MA's), (Start: 6 @64126 has 101 MA's), (7, 64180), (8, 64207), (9, 64216), (11, 64255), (13, 64276), (16, 64369), (18, 64387), (19, 64390), (20, 64438), (24, 64489),

Gene: Flypotenuse_107 Start: 62431, Stop: 62805, Start Num: 6

Candidate Starts for Flypotenuse_107:

(Start: 6 @62431 has 101 MA's), (7, 62485), (8, 62512), (9, 62521), (11, 62560), (12, 62563), (13, 62581), (16, 62674), (18, 62692), (19, 62695), (20, 62743), (21, 62749), (22, 62761),

Gene: Gage_113 Start: 63382, Stop: 63756, Start Num: 6

Candidate Starts for Gage_113:

(Start: 3 @63328 has 1 MA's), (Start: 6 @63382 has 101 MA's), (8, 63463), (9, 63472), (11, 63511), (13, 63532), (16, 63625), (18, 63643), (19, 63646), (20, 63694), (24, 63745),

Gene: Gator_109 Start: 63291, Stop: 63665, Start Num: 6

Candidate Starts for Gator_109:

(Start: 6 @63291 has 101 MA's), (7, 63345), (8, 63372), (9, 63381), (11, 63420), (13, 63441), (16, 63534), (18, 63552), (19, 63555), (20, 63603), (21, 63609), (22, 63621),

Gene: Gemini_116 Start: 63761, Stop: 64135, Start Num: 6

Candidate Starts for Gemini_116:

(Start: 3 @63707 has 1 MA's), (Start: 6 @63761 has 101 MA's), (8, 63842), (9, 63851), (11, 63890), (13, 63911), (16, 64004), (18, 64022), (19, 64025), (20, 64073), (24, 64124),

Gene: Glexan_110 Start: 63441, Stop: 63815, Start Num: 6

Candidate Starts for Glexan_110:

(Start: 3 @63387 has 1 MA's), (Start: 6 @63441 has 101 MA's), (7, 63495), (8, 63522), (9, 63531), (11, 63570), (13, 63591), (16, 63684), (18, 63702), (19, 63705), (20, 63753), (21, 63759), (22, 63771),

Gene: GoldenSpark_115 Start: 63244, Stop: 63618, Start Num: 6

Candidate Starts for GoldenSpark_115:

(Start: 3 @63190 has 1 MA's), (Start: 6 @63244 has 101 MA's), (8, 63325), (9, 63334), (11, 63373), (13, 63394), (16, 63487), (18, 63505), (19, 63508), (20, 63556), (24, 63607),

Gene: GooberAzure_114 Start: 63244, Stop: 63618, Start Num: 6

Candidate Starts for GooberAzure_114:

(Start: 3 @63190 has 1 MA's), (Start: 6 @63244 has 101 MA's), (8, 63325), (9, 63334), (11, 63373), (13, 63394), (16, 63487), (18, 63505), (19, 63508), (20, 63556), (24, 63607),

Gene: HanKaySha_111 Start: 63432, Stop: 63806, Start Num: 6

Candidate Starts for HanKaySha_111:

(Start: 3 @63378 has 1 MA's), (Start: 6 @63432 has 101 MA's), (7, 63486), (8, 63513), (9, 63522), (11, 63561), (13, 63582), (16, 63675), (18, 63693), (19, 63696), (20, 63744), (24, 63795),

Gene: Harella_112 Start: 63957, Stop: 64331, Start Num: 6

Candidate Starts for Harella_112:

(Start: 3 @63903 has 1 MA's), (Start: 6 @63957 has 101 MA's), (7, 64011), (8, 64038), (9, 64047), (11, 64086), (13, 64107), (16, 64200), (18, 64218), (19, 64221), (20, 64269), (21, 64275), (22, 64287),

Gene: Henry_109 Start: 63242, Stop: 63616, Start Num: 6

Candidate Starts for Henry_109:

(Start: 6 @63242 has 101 MA's), (7, 63296), (8, 63323), (9, 63332), (11, 63371), (13, 63392), (16, 63485), (18, 63503), (19, 63506), (20, 63554), (21, 63560), (22, 63572),

Gene: Highbury_107 Start: 61589, Stop: 61963, Start Num: 6

Candidate Starts for Highbury_107:

(Start: 3 @61535 has 1 MA's), (Start: 6 @61589 has 101 MA's), (7, 61643), (8, 61670), (9, 61679), (11, 61718), (13, 61739), (16, 61832), (18, 61850), (19, 61853), (20, 61901), (24, 61952),

Gene: Hoonter_114 Start: 63737, Stop: 64111, Start Num: 6

Candidate Starts for Hoonter_114:

(Start: 3 @63683 has 1 MA's), (Start: 6 @63737 has 101 MA's), (8, 63818), (9, 63827), (11, 63866), (13, 63887), (16, 63980), (18, 63998), (19, 64001), (20, 64049), (24, 64100),

Gene: Hokey_111 Start: 64043, Stop: 64417, Start Num: 6

Candidate Starts for Hokey_111:

(Start: 3 @63989 has 1 MA's), (Start: 6 @64043 has 101 MA's), (8, 64124), (9, 64133), (11, 64172), (13, 64193), (16, 64286), (18, 64304), (19, 64307), (20, 64355), (24, 64406),

Gene: HufflyPuff_113 Start: 64352, Stop: 64726, Start Num: 6

Candidate Starts for HufflyPuff_113:

(Start: 3 @64298 has 1 MA's), (Start: 6 @64352 has 101 MA's), (8, 64433), (9, 64442), (11, 64481), (13, 64502), (16, 64595), (18, 64613), (19, 64616), (20, 64664), (24, 64715),

Gene: IHOP_109 Start: 62960, Stop: 63334, Start Num: 6

Candidate Starts for IHOP_109:

(Start: 3 @62906 has 1 MA's), (Start: 6 @62960 has 101 MA's), (7, 63014), (8, 63041), (9, 63050), (11, 63089), (13, 63110), (16, 63203), (18, 63221), (19, 63224), (20, 63272), (21, 63278), (22, 63290),

Gene: Kanye_108 Start: 63493, Stop: 63867, Start Num: 6

Candidate Starts for Kanye_108:

(Start: 3 @63439 has 1 MA's), (Start: 6 @63493 has 101 MA's), (8, 63574), (9, 63583), (11, 63622), (13, 63643), (16, 63736), (18, 63754), (19, 63757), (20, 63805), (24, 63856),

Gene: Kostya_111 Start: 63062, Stop: 63436, Start Num: 6

Candidate Starts for Kostya_111:

(Start: 3 @63008 has 1 MA's), (Start: 6 @63062 has 101 MA's), (7, 63116), (8, 63143), (9, 63152), (11, 63191), (13, 63212), (16, 63305), (18, 63323), (19, 63326), (20, 63374), (21, 63380), (22, 63392),

Gene: Lilac_112 Start: 64186, Stop: 64560, Start Num: 6

Candidate Starts for Lilac_112:

(Start: 3 @64132 has 1 MA's), (Start: 6 @64186 has 101 MA's), (7, 64240), (8, 64267), (9, 64276), (11, 64315), (13, 64336), (16, 64429), (18, 64447), (19, 64450), (20, 64498), (24, 64549),

Gene: Lilizi_111 Start: 63472, Stop: 63846, Start Num: 6

Candidate Starts for Lilizi_111:

(Start: 3 @63418 has 1 MA's), (Start: 6 @63472 has 101 MA's), (8, 63553), (9, 63562), (11, 63601), (13, 63622), (16, 63715), (18, 63733), (19, 63736), (20, 63784), (24, 63835),

Gene: Lilpickle_110 Start: 62884, Stop: 63258, Start Num: 6

Candidate Starts for Lilpickle_110:

(Start: 3 @62830 has 1 MA's), (Start: 6 @62884 has 101 MA's), (7, 62938), (8, 62965), (9, 62974), (11, 63013), (13, 63034), (16, 63127), (18, 63145), (19, 63148), (20, 63196), (24, 63247),

Gene: MISSy_112 Start: 64169, Stop: 64543, Start Num: 6

Candidate Starts for MISSy_112:

(Start: 3 @64115 has 1 MA's), (Start: 6 @64169 has 101 MA's), (8, 64250), (9, 64259), (11, 64298), (13, 64319), (16, 64412), (18, 64430), (19, 64433), (20, 64481), (24, 64532),

Gene: MPhalcon_112 Start: 63587, Stop: 63961, Start Num: 6

Candidate Starts for MPhalcon_112:

(Start: 3 @63533 has 1 MA's), (Start: 6 @63587 has 101 MA's), (8, 63668), (9, 63677), (11, 63716), (13, 63737), (16, 63830), (18, 63848), (19, 63851), (20, 63899), (24, 63950),

Gene: MadamMonkfish_110 Start: 62894, Stop: 63268, Start Num: 6

Candidate Starts for MadamMonkfish_110:

(Start: 3 @62840 has 1 MA's), (Start: 6 @62894 has 101 MA's), (7, 62948), (8, 62975), (9, 62984), (11, 63023), (13, 63044), (16, 63137), (18, 63155), (19, 63158), (20, 63206), (24, 63257),

Gene: Manda_112 Start: 63624, Stop: 63998, Start Num: 6

Candidate Starts for Manda_112:

(Start: 3 @63570 has 1 MA's), (Start: 6 @63624 has 101 MA's), (7, 63678), (8, 63705), (9, 63714), (11, 63753), (13, 63774), (16, 63867), (18, 63885), (19, 63888), (20, 63936), (21, 63942), (24, 63987),

Gene: Maxxinista_113 Start: 63371, Stop: 63745, Start Num: 6

Candidate Starts for Maxxinista_113:

(Start: 3 @63317 has 1 MA's), (Start: 6 @63371 has 101 MA's), (7, 63425), (8, 63452), (9, 63461), (11, 63500), (13, 63521), (16, 63614), (18, 63632), (19, 63635), (20, 63683), (24, 63734),

Gene: Mindy_110 Start: 62903, Stop: 63277, Start Num: 6

Candidate Starts for Mindy_110:

(Start: 3 @62849 has 1 MA's), (Start: 6 @62903 has 101 MA's), (7, 62957), (8, 62984), (9, 62993), (11, 63032), (13, 63053), (16, 63146), (18, 63164), (19, 63167), (20, 63215), (21, 63221), (22, 63233),

Gene: Miniwave_106 Start: 63080, Stop: 63454, Start Num: 6

Candidate Starts for Miniwave_106:

(Start: 3 @63026 has 1 MA's), (Start: 6 @63080 has 101 MA's), (8, 63161), (9, 63170), (11, 63209), (13, 63230), (16, 63323), (18, 63341), (19, 63344), (20, 63392), (24, 63443),

Gene: Misfit_112 Start: 64683, Stop: 65057, Start Num: 6

Candidate Starts for Misfit_112:

(Start: 3 @64629 has 1 MA's), (Start: 6 @64683 has 101 MA's), (8, 64764), (9, 64773), (11, 64812), (13, 64833), (16, 64926), (18, 64944), (19, 64947), (20, 64995), (24, 65046),

Gene: Moldemort_113 Start: 63352, Stop: 63726, Start Num: 6

Candidate Starts for Moldemort_113:

(Start: 3 @63298 has 1 MA's), (Start: 6 @63352 has 101 MA's), (7, 63406), (8, 63433), (9, 63442), (11, 63481), (13, 63502), (16, 63595), (18, 63613), (19, 63616), (20, 63664), (24, 63715),

Gene: Mosby_108 Start: 63047, Stop: 63421, Start Num: 6

Candidate Starts for Mosby_108:

(Start: 3 @62993 has 1 MA's), (Start: 6 @63047 has 101 MA's), (8, 63128), (9, 63137), (11, 63176), (13, 63197), (16, 63290), (18, 63308), (19, 63311), (20, 63359), (24, 63410),

Gene: Murica_115 Start: 65386, Stop: 65760, Start Num: 6

Candidate Starts for Murica_115:

(Start: 3 @65332 has 1 MA's), (Start: 6 @65386 has 101 MA's), (8, 65467), (9, 65476), (11, 65515), (13, 65536), (16, 65629), (18, 65647), (19, 65650), (20, 65698), (24, 65749),

Gene: Murphy_110 Start: 63744, Stop: 64118, Start Num: 6

Candidate Starts for Murphy_110:

(Start: 3 @63690 has 1 MA's), (Start: 6 @63744 has 101 MA's), (7, 63798), (8, 63825), (9, 63834), (11, 63873), (13, 63894), (16, 63987), (18, 64005), (19, 64008), (20, 64056), (24, 64107),

Gene: Myrale_111 Start: 63841, Stop: 64215, Start Num: 6

Candidate Starts for Myrale_111:

(Start: 6 @63841 has 101 MA's), (7, 63895), (8, 63922), (9, 63931), (11, 63970), (13, 63991), (16, 64084), (18, 64102), (19, 64105), (20, 64153), (21, 64159), (22, 64171),

Gene: Nala_113 Start: 64096, Stop: 64470, Start Num: 6

Candidate Starts for Nala_113:

(Start: 3 @64042 has 1 MA's), (Start: 6 @64096 has 101 MA's), (7, 64150), (8, 64177), (9, 64186), (11, 64225), (13, 64246), (16, 64339), (18, 64357), (19, 64360), (20, 64408), (24, 64459),

Gene: NelitzaMV_108 Start: 62069, Stop: 62443, Start Num: 6

Candidate Starts for NelitzaMV_108:

(Start: 3 @62015 has 1 MA's), (Start: 6 @62069 has 101 MA's), (7, 62123), (8, 62150), (9, 62159), (11, 62198), (13, 62219), (16, 62312), (18, 62330), (19, 62333), (20, 62381), (24, 62432),

Gene: NoSleep_111 Start: 62904, Stop: 63278, Start Num: 6

Candidate Starts for NoSleep_111:

(Start: 3 @62850 has 1 MA's), (Start: 6 @62904 has 101 MA's), (7, 62958), (8, 62985), (9, 62994), (11, 63033), (13, 63054), (16, 63147), (18, 63165), (19, 63168), (20, 63216), (24, 63267),

Gene: OrionPax_109 Start: 62977, Stop: 63351, Start Num: 6

Candidate Starts for OrionPax_109:

(Start: 3 @62923 has 1 MA's), (Start: 6 @62977 has 101 MA's), (7, 63031), (8, 63058), (9, 63067), (11, 63106), (13, 63127), (16, 63220), (18, 63238), (19, 63241), (20, 63289), (24, 63340),

Gene: Palpatine_112 Start: 64381, Stop: 64755, Start Num: 6

Candidate Starts for Palpatine_112:

(Start: 3 @64327 has 1 MA's), (Start: 6 @64381 has 101 MA's), (7, 64435), (8, 64462), (9, 64471), (11, 64510), (13, 64531), (16, 64624), (18, 64642), (19, 64645), (20, 64693), (24, 64744),

Gene: Paperbeatsrock_110 Start: 63758, Stop: 64132, Start Num: 6

Candidate Starts for Paperbeatsrock_110:

(Start: 3 @63704 has 1 MA's), (Start: 6 @63758 has 101 MA's), (8, 63839), (9, 63848), (11, 63887), (13, 63908), (16, 64001), (18, 64019), (19, 64022), (20, 64070), (24, 64121),

Gene: Pat3_108 Start: 62397, Stop: 62771, Start Num: 6

Candidate Starts for Pat3_108:

(Start: 6 @62397 has 101 MA's), (7, 62451), (8, 62478), (9, 62487), (11, 62526), (12, 62529), (13, 62547), (16, 62640), (18, 62658), (19, 62661), (20, 62709), (21, 62715), (22, 62727),

Gene: Petra64142_115 Start: 64226, Stop: 64600, Start Num: 6

Candidate Starts for Petra64142_115:

(Start: 3 @64172 has 1 MA's), (Start: 6 @64226 has 101 MA's), (7, 64280), (8, 64307), (9, 64316), (11, 64355), (13, 64376), (16, 64469), (18, 64487), (19, 64490), (20, 64538), (21, 64544), (22, 64556), (24, 64589),

Gene: Phaja_109 Start: 62962, Stop: 63336, Start Num: 6

Candidate Starts for Phaja_109:

(Start: 3 @62908 has 1 MA's), (Start: 6 @62962 has 101 MA's), (7, 63016), (8, 63043), (9, 63052), (11, 63091), (13, 63112), (16, 63205), (18, 63223), (19, 63226), (20, 63274),

Gene: Pharsalus_108 Start: 63457, Stop: 63831, Start Num: 6

Candidate Starts for Pharsalus_108:

(Start: 3 @63403 has 1 MA's), (Start: 6 @63457 has 101 MA's), (8, 63538), (9, 63547), (11, 63586), (13, 63607), (16, 63700), (18, 63718), (19, 63721), (20, 63769), (24, 63820),

Gene: PhatBacter_114 Start: 64126, Stop: 64500, Start Num: 6

Candidate Starts for PhatBacter_114:

(Start: 3 @64072 has 1 MA's), (Start: 6 @64126 has 101 MA's), (7, 64180), (8, 64207), (9, 64216), (11, 64255), (13, 64276), (16, 64369), (18, 64387), (19, 64390), (20, 64438), (24, 64489),

Gene: Phaux_113 Start: 64686, Stop: 65060, Start Num: 6

Candidate Starts for Phaux_113:

(Start: 3 @64632 has 1 MA's), (Start: 6 @64686 has 101 MA's), (7, 64740), (8, 64767), (9, 64776), (11, 64815), (13, 64836), (16, 64929), (18, 64947), (19, 64950), (20, 64998), (24, 65049),

Gene: Phrux_107 Start: 62764, Stop: 63138, Start Num: 6

Candidate Starts for Phrux_107:

(Start: 3 @62710 has 1 MA's), (Start: 6 @62764 has 101 MA's), (8, 62845), (9, 62854), (11, 62893), (13, 62914), (16, 63007), (18, 63025), (19, 63028), (20, 63076), (24, 63127),

Gene: Policronamos_115 Start: 64390, Stop: 64764, Start Num: 6

Candidate Starts for Policronamos_115:

(Start: 3 @64336 has 1 MA's), (Start: 6 @64390 has 101 MA's), (8, 64471), (9, 64480), (11, 64519), (13, 64540), (16, 64633), (18, 64651), (19, 64654), (20, 64702), (24, 64753),

Gene: Pumpkin_112 Start: 63104, Stop: 63478, Start Num: 6

Candidate Starts for Pumpkin_112:

(Start: 3 @63050 has 1 MA's), (Start: 6 @63104 has 101 MA's), (8, 63185), (9, 63194), (11, 63233), (13, 63254), (16, 63347), (18, 63365), (19, 63368), (20, 63416), (24, 63467),

Gene: Quallification_112 Start: 64172, Stop: 64546, Start Num: 6

Candidate Starts for Quallification_112:

(Start: 3 @64118 has 1 MA's), (Start: 6 @64172 has 101 MA's), (8, 64253), (9, 64262), (11, 64301), (13, 64322), (16, 64415), (18, 64433), (19, 64436), (20, 64484), (24, 64535),

Gene: Rakim_112 Start: 63174, Stop: 63548, Start Num: 6

Candidate Starts for Rakim_112:

(Start: 3 @63120 has 1 MA's), (Start: 6 @63174 has 101 MA's), (7, 63228), (8, 63255), (9, 63264), (11, 63303), (13, 63324), (16, 63417), (18, 63435), (19, 63438), (20, 63486), (21, 63492), (22, 63504),

Gene: Rimmer_109 Start: 63563, Stop: 63937, Start Num: 6

Candidate Starts for Rimmer_109:

(Start: 3 @63509 has 1 MA's), (Start: 6 @63563 has 101 MA's), (7, 63617), (8, 63644), (9, 63653), (11, 63692), (13, 63713), (16, 63806), (18, 63824), (19, 63827), (20, 63875), (24, 63926),

Gene: RiverMonster_110 Start: 63605, Stop: 64033, Start Num: 3

Candidate Starts for RiverMonster_110:

(Start: 3 @63605 has 1 MA's), (Start: 6 @63659 has 101 MA's), (8, 63740), (9, 63749), (11, 63788), (13, 63809), (16, 63902), (18, 63920), (19, 63923), (20, 63971), (24, 64022),

Gene: Saints25_107 Start: 61589, Stop: 61963, Start Num: 6

Candidate Starts for Saints25_107:

(Start: 3 @61535 has 1 MA's), (Start: 6 @61589 has 101 MA's), (7, 61643), (8, 61670), (9, 61679), (11, 61718), (13, 61739), (16, 61832), (18, 61850), (19, 61853), (20, 61901), (24, 61952),

Gene: Sassay_106 Start: 62009, Stop: 62383, Start Num: 6

Candidate Starts for Sassay_106:

(Start: 3 @61955 has 1 MA's), (Start: 6 @62009 has 101 MA's), (8, 62090), (9, 62099), (11, 62138), (13, 62159), (16, 62252), (18, 62270), (19, 62273), (20, 62321), (24, 62372),

Gene: ShamWow_111 Start: 64057, Stop: 64431, Start Num: 6

Candidate Starts for ShamWow_111:

(Start: 6 @64057 has 101 MA's), (7, 64111), (8, 64138), (9, 64147), (11, 64186), (13, 64207), (16, 64300), (18, 64318), (19, 64321), (20, 64369), (21, 64375), (22, 64387),

Gene: ShereKhan_109 Start: 64418, Stop: 64792, Start Num: 6

Candidate Starts for ShereKhan_109:

(Start: 3 @64364 has 1 MA's), (Start: 6 @64418 has 101 MA's), (8, 64499), (9, 64508), (11, 64547), (13, 64568), (16, 64661), (18, 64679), (19, 64682), (20, 64730), (24, 64781),

Gene: Simpliphy_109 Start: 63230, Stop: 63604, Start Num: 6

Candidate Starts for Simpliphy_109:

(Start: 3 @63176 has 1 MA's), (Start: 6 @63230 has 101 MA's), (7, 63284), (8, 63311), (9, 63320), (11, 63359), (13, 63380), (16, 63473), (18, 63491), (19, 63494), (20, 63542), (24, 63593),

Gene: SirDuracell_111 Start: 62896, Stop: 63270, Start Num: 6

Candidate Starts for SirDuracell_111:

(Start: 6 @62896 has 101 MA's), (7, 62950), (8, 62977), (9, 62986), (11, 63025), (13, 63046), (16, 63139), (18, 63157), (19, 63160), (20, 63208), (21, 63214), (22, 63226),

Gene: SophKB_109 Start: 63219, Stop: 63593, Start Num: 6

Candidate Starts for SophKB_109:

(Start: 3 @63165 has 1 MA's), (Start: 6 @63219 has 101 MA's), (7, 63273), (8, 63300), (9, 63309), (11, 63348), (13, 63369), (16, 63462), (18, 63480), (19, 63483), (20, 63531), (21, 63537), (22, 63549),

Gene: Sotrice96_112 Start: 63683, Stop: 64057, Start Num: 6

Candidate Starts for Sotrice96_112:

(Start: 3 @63629 has 1 MA's), (Start: 6 @63683 has 101 MA's), (7, 63737), (8, 63764), (9, 63773), (11, 63812), (13, 63833), (16, 63926), (18, 63944), (19, 63947), (20, 63995), (21, 64001), (22, 64013),

Gene: Stark_111 Start: 63543, Stop: 63917, Start Num: 6

Candidate Starts for Stark_111:

(Start: 3 @63489 has 1 MA's), (Start: 6 @63543 has 101 MA's), (8, 63624), (9, 63633), (11, 63672), (13, 63693), (16, 63786), (18, 63804), (19, 63807), (20, 63855), (24, 63906),

Gene: StellaBean_109 Start: 63840, Stop: 64214, Start Num: 6

Candidate Starts for StellaBean_109:

(Start: 3 @63786 has 1 MA's), (Start: 6 @63840 has 101 MA's), (7, 63894), (8, 63921), (9, 63930), (11, 63969), (13, 63990), (16, 64083), (18, 64101), (19, 64104), (20, 64152), (24, 64203),

Gene: StolenFromERC_113 Start: 63382, Stop: 63756, Start Num: 6

Candidate Starts for StolenFromERC_113:

(Start: 3 @63328 has 1 MA's), (Start: 6 @63382 has 101 MA's), (8, 63463), (9, 63472), (11, 63511), (13, 63532), (16, 63625), (18, 63643), (19, 63646), (20, 63694), (24, 63745),

Gene: Tarkin_110 Start: 64283, Stop: 64657, Start Num: 6

Candidate Starts for Tarkin_110:

(Start: 3 @64229 has 1 MA's), (Start: 6 @64283 has 101 MA's), (8, 64364), (9, 64373), (11, 64412), (13, 64433), (16, 64526), (18, 64544), (19, 64547), (20, 64595), (24, 64646),

Gene: TeardropMSU_107 Start: 62785, Stop: 63159, Start Num: 6

Candidate Starts for TeardropMSU_107:

(Start: 3 @62731 has 1 MA's), (Start: 6 @62785 has 101 MA's), (7, 62839), (8, 62866), (9, 62875), (11, 62914), (13, 62935), (16, 63028), (18, 63046), (19, 63049), (20, 63097), (21, 63103), (22, 63115),

Gene: Terminus_114 Start: 64683, Stop: 65057, Start Num: 6

Candidate Starts for Terminus_114:

(Start: 3 @64629 has 1 MA's), (Start: 6 @64683 has 101 MA's), (8, 64764), (9, 64773), (11, 64812), (13, 64833), (16, 64926), (18, 64944), (19, 64947), (20, 64995), (24, 65046),

Gene: Thresher_112 Start: 64323, Stop: 64697, Start Num: 6

Candidate Starts for Thresher_112:

(Start: 3 @64269 has 1 MA's), (Start: 6 @64323 has 101 MA's), (8, 64404), (9, 64413), (11, 64452), (13, 64473), (16, 64566), (18, 64584), (19, 64587), (20, 64635), (24, 64686),

Gene: Tomaszewski_106 Start: 63221, Stop: 63595, Start Num: 6

Candidate Starts for Tomaszewski_106:

(Start: 3 @63167 has 1 MA's), (Start: 6 @63221 has 101 MA's), (8, 63302), (9, 63311), (11, 63350), (13, 63371), (16, 63464), (18, 63482), (19, 63485), (20, 63533), (24, 63584),

Gene: Toto_109 Start: 64057, Stop: 64431, Start Num: 6

Candidate Starts for Toto_109:

(Start: 6 @64057 has 101 MA's), (7, 64111), (8, 64138), (9, 64147), (11, 64186), (13, 64207), (16, 64300), (18, 64318), (19, 64321), (20, 64369), (21, 64375), (22, 64387),

Gene: Traaww1_107 Start: 62606, Stop: 62980, Start Num: 6

Candidate Starts for Traaww1_107:

(Start: 6 @62606 has 101 MA's), (7, 62660), (8, 62687), (9, 62696), (11, 62735), (12, 62738), (13, 62756), (16, 62849), (18, 62867), (19, 62870), (20, 62918), (21, 62924), (22, 62936),

Gene: Tuco_112 Start: 64844, Stop: 65218, Start Num: 6

Candidate Starts for Tuco_112:

(Start: 3 @64790 has 1 MA's), (Start: 6 @64844 has 101 MA's), (7, 64898), (8, 64925), (9, 64934), (11, 64973), (13, 64994), (16, 65087), (18, 65105), (19, 65108), (20, 65156), (21, 65162), (22, 65174),

Gene: Willez_106 Start: 62009, Stop: 62383, Start Num: 6

Candidate Starts for Willez_106:

(Start: 3 @61955 has 1 MA's), (Start: 6 @62009 has 101 MA's), (8, 62090), (9, 62099), (11, 62138), (13, 62159), (16, 62252), (18, 62270), (19, 62273), (20, 62321), (24, 62372),

Gene: YassJohnny_108 Start: 62030, Stop: 62404, Start Num: 6

Candidate Starts for YassJohnny_108:

(Start: 3 @61976 has 1 MA's), (Start: 6 @62030 has 101 MA's), (8, 62111), (9, 62120), (11, 62159), (13, 62180), (16, 62273), (18, 62291), (19, 62294), (20, 62342), (24, 62393),

Gene: Youngblood_115 Start: 64179, Stop: 64553, Start Num: 6

Candidate Starts for Youngblood_115:

(Start: 3 @64125 has 1 MA's), (Start: 6 @64179 has 101 MA's), (8, 64260), (9, 64269), (11, 64308), (13, 64329), (16, 64422), (18, 64440), (19, 64443), (20, 64491), (24, 64542),

Gene: xkcd_115 Start: 64364, Stop: 64738, Start Num: 6

Candidate Starts for xkcd_115:

(Start: 3 @64310 has 1 MA's), (Start: 6 @64364 has 101 MA's), (8, 64445), (9, 64454), (11, 64493), (13, 64514), (16, 64607), (18, 64625), (19, 64628), (20, 64676), (24, 64727),