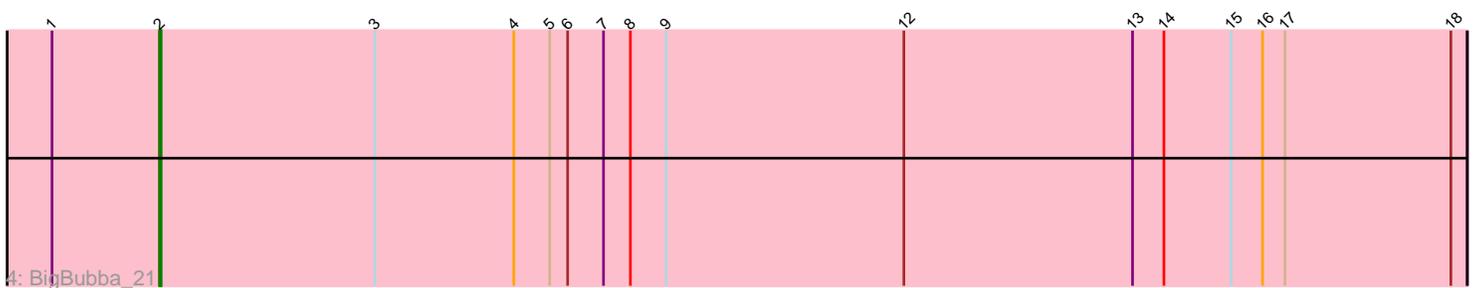
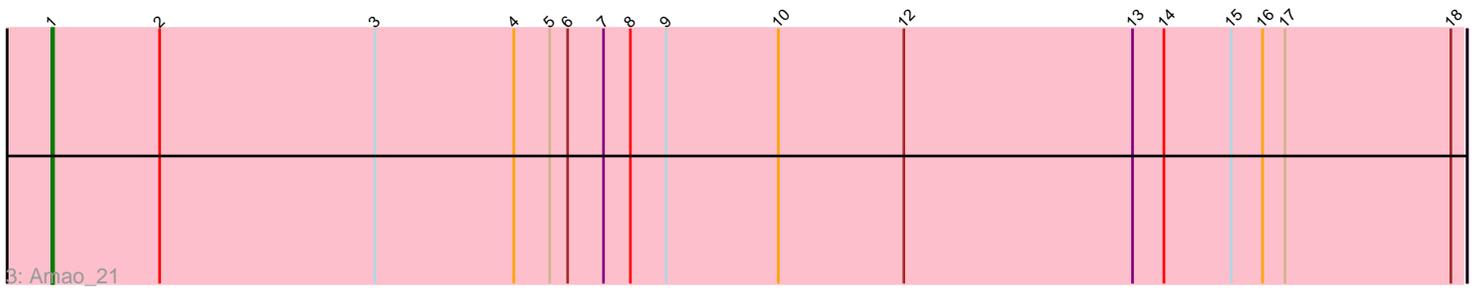
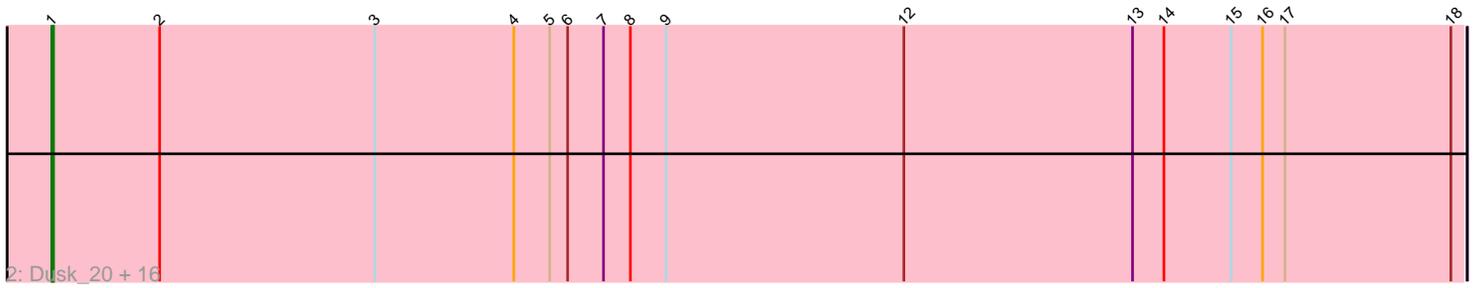
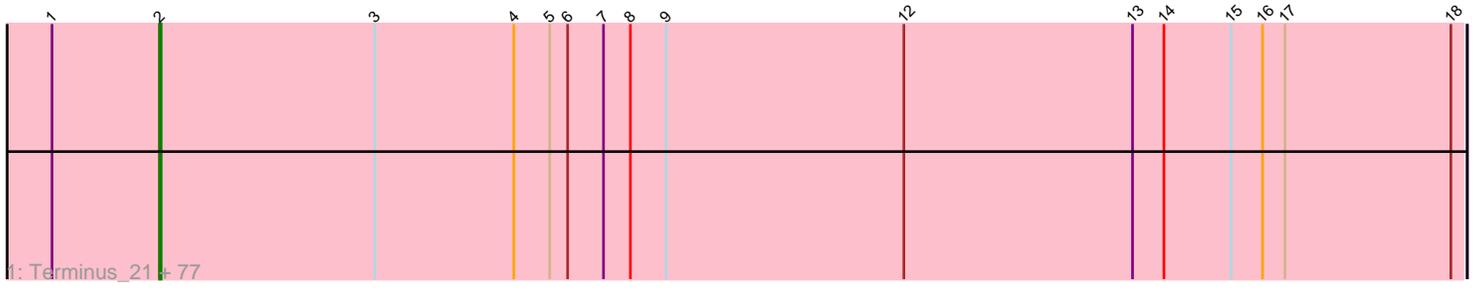


Pham 291020



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 291020 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291020 has 98 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Terminus_21, Goldilocks_22, Balomoji_20, BadStone_20, Gage_23, Inca_20, Command613_22, ChosenOne_20, HanKaySha_22, DoctorDiddles_21, Henry_20, Gemini_23, ChotaBhai_21, JeTaime_23, Filch_22, Moldemort_22, Emmina_21, Paperbeatsrock_23, Simpliphy_22, Palpatine_20, Policronamos_20, Highbury_22, Saints25_22, Kimchi_23, Harella_19, Stank_23, ShereKhan_23, Lilpickle_20, FireRed_20, Argent26_23, Xandras_23, Wiggin_23, Willez_20, MISSy_20, Barbarian_20, Easy2Say_22, ShamWow_21, YassJohnny_21, StolenFromERC_23, Tuco_21, Qualification_22, Holt_22, Rimmer_20, Sotrice96_21, MadamMonkfish_21, Thimble_21, NelitzaMV_21, NoSleep_22, xkcd_21, BilboSwaggins_21, Youngblood_21, Hoonter_23, Tomaszewski_20, Adnama_23, TeardropMSU_20, GoldenSpark_23, Murica_19, OrionPax_22, Marshmallow_21, Traaww1_18, AmericanBeauty_23, Flypotenuse_19, Buck_20, Sassay_20, Elite2014_20, Bench_23, Cactus_22, Stark_22, Miniwave_21, Asriel_20, GooberAzure_23, Thresher_22, Tarkin_23, Lilizi_23, MPhalcon_20, Misfit_21, Cookies_21, Icee_20
- Track 2 : Dusk_20, Pharsalus_22, Phaja_20, Maxxinista_22, Gator_19, Myrale_21, ABCat_20, Nimrod_21, StellaBean_21, Czyszczo1_22, Kanye_23, IHOP_20, SophKB_21, Teaspoon_21, CrystalP_21, Glexan_19, Hopey_22
- Track 3 : Amao_21
- Track 4 : BigBubba_21
- Track 5 : TBrady12_23

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

The start number called the most often in the published annotations is 2, it was called in 80 of the 98 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_23, AmericanBeauty_23, Argent26_23, Asriel_20, BadStone_20, Balomoji_20, Barbarian_20, Bench_23, BigBubba_21, BilboSwaggins_21, Buck_20, Cactus_22, ChosenOne_20, ChotaBhai_21, Command613_22, Cookies_21, DoctorDiddles_21, Easy2Say_22, Elite2014_20, Emmina_21, Filch_22, FireRed_20, Flypotenuse_19, Gage_23, Gemini_23, GoldenSpark_23, Goldilocks_22, GooberAzure_23, HanKaySha_22, Harella_19, Henry_20, Highbury_22, Holt_22,

Hoonter_23, Icee_20, Inca_20, JeTaime_23, Kimchi_23, Lilizi_23, Lilpickle_20, MISSy_20, MPhalcon_20, MadamMonkfish_21, Marshmallow_21, Miniwave_21, Misfit_21, Moldemort_22, Murica_19, NelitzaMV_21, NoSleep_22, OrionPax_22, Palpatine_20, Paperbeatsrock_23, Policronamos_20, Quallification_22, Rimmer_20, Saints25_22, Sassay_20, ShamWow_21, ShereKhan_23, Simpliphy_22, Sotrice96_21, Stank_23, Stark_22, StolenFromERC_23, TBrady12_23, Tarkin_23, TeardropMSU_20, Terminus_21, Thimble_21, Thresher_22, Tomaszewski_20, Traaww1_18, Tuco_21, Wiggin_23, Willez_20, Xandras_23, YassJohnny_21, Youngblood_21, xkcd_21,

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

- ABCat_20, Amao_21, CrystalP_21, Czyszczonek_22, Dusk_20, Gator_19, Glexan_19, Hopey_22, IHOP_20, Kanye_23, Maxxinista_22, Myrale_21, Nimrod_21, Phaja_20, Pharsalus_22, SophKB_21, StellaBean_21, Teaspoon_21,

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

-

Summary by start number:

Start 1:

- Found in 98 of 98 (100.0%) of genes in pham
- Manual Annotations of this start: 18 of 98
- Called 18.4% of time when present
- Phage (with cluster) where this start called: ABCat_20 (E), Amao_21 (E), CrystalP_21 (E), Czyszczonek_22 (E), Dusk_20 (E), Gator_19 (E), Glexan_19 (E), Hopey_22 (E), IHOP_20 (E), Kanye_23 (E), Maxxinista_22 (E), Myrale_21 (E), Nimrod_21 (E), Phaja_20 (E), Pharsalus_22 (E), SophKB_21 (E), StellaBean_21 (E), Teaspoon_21 (E),

Start 2:

- Found in 98 of 98 (100.0%) of genes in pham
- Manual Annotations of this start: 80 of 98
- Called 81.6% of time when present
- Phage (with cluster) where this start called: Adnama_23 (E), AmericanBeauty_23 (E), Argent26_23 (E), Asriel_20 (E), BadStone_20 (E), Balomogi_20 (E), Barbarian_20 (E), Bench_23 (E), BigBubba_21 (E), BilboSwaggins_21 (E), Buck_20 (E), Cactus_22 (E), ChosenOne_20 (E), ChotaBhai_21 (E), Command613_22 (E), Cookies_21 (E), DoctorDiddles_21 (E), Easy2Say_22 (E), Elite2014_20 (E), Emmina_21 (E), Filch_22 (E), FireRed_20 (E), Flypotenuse_19 (E), Gage_23 (E), Gemini_23 (E), GoldenSpark_23 (E), Goldilocks_22 (E), GooberAzure_23 (E), HanKaySha_22 (E), Harella_19 (E), Henry_20 (E), Highbury_22 (E), Holt_22 (E), Hoonter_23 (E), Icee_20 (E), Inca_20 (E), JeTaime_23 (E), Kimchi_23 (E), Lilizi_23 (E), Lilpickle_20 (E), MISSy_20 (E), MPhalcon_20 (E), MadamMonkfish_21 (E), Marshmallow_21 (E), Miniwave_21 (E), Misfit_21 (E), Moldemort_22 (E), Murica_19 (E), NelitzaMV_21 (E), NoSleep_22 (E), OrionPax_22 (E), Palpatine_20 (E), Paperbeatsrock_23 (E), Policronamos_20 (E), Quallification_22 (E), Rimmer_20 (E), Saints25_22 (E), Sassay_20 (E), ShamWow_21 (E), ShereKhan_23 (E), Simpliphy_22 (E), Sotrice96_21 (E), Stank_23 (E), Stark_22 (E), StolenFromERC_23 (E), TBrady12_23 (E), Tarkin_23 (E), TeardropMSU_20 (E), Terminus_21 (E), Thimble_21 (E), Thresher_22 (E), Tomaszewski_20 (E), Traaww1_18 (E), Tuco_21 (E), Wiggin_23 (E), Willez_20 (E), Xandras_23 (E), YassJohnny_21 (E), Youngblood_21 (E), xkcd_21 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 1 was manually annotated 18 times for cluster E.
- Start number 2 was manually annotated 80 times for cluster E.

Gene Information:

Gene: ABCat_20 Start: 12397, Stop: 13340, Start Num: 1

Candidate Starts for ABCat_20:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Adnama_23 Start: 12463, Stop: 13337, Start Num: 2

Candidate Starts for Adnama_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Amao_21 Start: 11602, Stop: 12545, Start Num: 1

Candidate Starts for Amao_21:

(Start: 1 @11602 has 18 MA's), (Start: 2 @11674 has 80 MA's), (3, 11818), (4, 11911), (5, 11935), (6, 11947), (7, 11971), (8, 11989), (9, 12013), (10, 12088), (12, 12172), (13, 12325), (14, 12346), (15, 12391), (16, 12412), (17, 12427), (18, 12538),

Gene: AmericanBeauty_23 Start: 12460, Stop: 13331, Start Num: 2

Candidate Starts for AmericanBeauty_23:

(Start: 1 @12388 has 18 MA's), (Start: 2 @12460 has 80 MA's), (3, 12604), (4, 12697), (5, 12721), (6, 12733), (7, 12757), (8, 12775), (9, 12799), (12, 12958), (13, 13111), (14, 13132), (15, 13177), (16, 13198), (17, 13213), (18, 13324),

Gene: Argent26_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for Argent26_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Asriel_20 Start: 11341, Stop: 12212, Start Num: 2

Candidate Starts for Asriel_20:

(Start: 1 @11269 has 18 MA's), (Start: 2 @11341 has 80 MA's), (3, 11485), (4, 11578), (5, 11602), (6, 11614), (7, 11638), (8, 11656), (9, 11680), (12, 11839), (13, 11992), (14, 12013), (15, 12058), (16, 12079), (17, 12094), (18, 12205),

Gene: BadStone_20 Start: 12469, Stop: 13340, Start Num: 2

Candidate Starts for BadStone_20:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16,

13207), (17, 13222), (18, 13333),

Gene: Balomoji_20 Start: 12203, Stop: 13074, Start Num: 2

Candidate Starts for Balomoji_20:

(Start: 1 @12131 has 18 MA's), (Start: 2 @12203 has 80 MA's), (3, 12347), (4, 12440), (5, 12464), (6, 12476), (7, 12500), (8, 12518), (9, 12542), (12, 12701), (13, 12854), (14, 12875), (15, 12920), (16, 12941), (17, 12956), (18, 13067),

Gene: Barbarian_20 Start: 11341, Stop: 12212, Start Num: 2

Candidate Starts for Barbarian_20:

(Start: 1 @11269 has 18 MA's), (Start: 2 @11341 has 80 MA's), (3, 11485), (4, 11578), (5, 11602), (6, 11614), (7, 11638), (8, 11656), (9, 11680), (12, 11839), (13, 11992), (14, 12013), (15, 12058), (16, 12079), (17, 12094), (18, 12205),

Gene: Bench_23 Start: 12336, Stop: 13207, Start Num: 2

Candidate Starts for Bench_23:

(Start: 1 @12264 has 18 MA's), (Start: 2 @12336 has 80 MA's), (3, 12480), (4, 12573), (5, 12597), (6, 12609), (7, 12633), (8, 12651), (9, 12675), (12, 12834), (13, 12987), (14, 13008), (15, 13053), (16, 13074), (17, 13089), (18, 13200),

Gene: BigBubba_21 Start: 11720, Stop: 12594, Start Num: 2

Candidate Starts for BigBubba_21:

(Start: 1 @11648 has 18 MA's), (Start: 2 @11720 has 80 MA's), (3, 11864), (4, 11957), (5, 11981), (6, 11993), (7, 12017), (8, 12035), (9, 12059), (12, 12218), (13, 12371), (14, 12392), (15, 12437), (16, 12458), (17, 12473), (18, 12584),

Gene: BilboSwaggins_21 Start: 12470, Stop: 13341, Start Num: 2

Candidate Starts for BilboSwaggins_21:

(Start: 1 @12398 has 18 MA's), (Start: 2 @12470 has 80 MA's), (3, 12614), (4, 12707), (5, 12731), (6, 12743), (7, 12767), (8, 12785), (9, 12809), (12, 12968), (13, 13121), (14, 13142), (15, 13187), (16, 13208), (17, 13223), (18, 13334),

Gene: Buck_20 Start: 12426, Stop: 13297, Start Num: 2

Candidate Starts for Buck_20:

(Start: 1 @12354 has 18 MA's), (Start: 2 @12426 has 80 MA's), (3, 12570), (4, 12663), (5, 12687), (6, 12699), (7, 12723), (8, 12741), (9, 12765), (12, 12924), (13, 13077), (14, 13098), (15, 13143), (16, 13164), (17, 13179), (18, 13290),

Gene: Cactus_22 Start: 11682, Stop: 12553, Start Num: 2

Candidate Starts for Cactus_22:

(Start: 1 @11610 has 18 MA's), (Start: 2 @11682 has 80 MA's), (3, 11826), (4, 11919), (5, 11943), (6, 11955), (7, 11979), (8, 11997), (9, 12021), (12, 12180), (13, 12333), (14, 12354), (15, 12399), (16, 12420), (17, 12435), (18, 12546),

Gene: ChosenOne_20 Start: 11683, Stop: 12554, Start Num: 2

Candidate Starts for ChosenOne_20:

(Start: 1 @11611 has 18 MA's), (Start: 2 @11683 has 80 MA's), (3, 11827), (4, 11920), (5, 11944), (6, 11956), (7, 11980), (8, 11998), (9, 12022), (12, 12181), (13, 12334), (14, 12355), (15, 12400), (16, 12421), (17, 12436), (18, 12547),

Gene: ChotaBhai_21 Start: 11719, Stop: 12590, Start Num: 2

Candidate Starts for ChotaBhai_21:

(Start: 1 @11647 has 18 MA's), (Start: 2 @11719 has 80 MA's), (3, 11863), (4, 11956), (5, 11980), (6, 11992), (7, 12016), (8, 12034), (9, 12058), (12, 12217), (13, 12370), (14, 12391), (15, 12436), (16, 12457), (17, 12472), (18, 12583),

Gene: Command613_22 Start: 12738, Stop: 13609, Start Num: 2

Candidate Starts for Command613_22:

(Start: 1 @12666 has 18 MA's), (Start: 2 @12738 has 80 MA's), (3, 12882), (4, 12975), (5, 12999), (6, 13011), (7, 13035), (8, 13053), (9, 13077), (12, 13236), (13, 13389), (14, 13410), (15, 13455), (16, 13476), (17, 13491), (18, 13602),

Gene: Cookies_21 Start: 12342, Stop: 13213, Start Num: 2

Candidate Starts for Cookies_21:

(Start: 1 @12270 has 18 MA's), (Start: 2 @12342 has 80 MA's), (3, 12486), (4, 12579), (5, 12603), (6, 12615), (7, 12639), (8, 12657), (9, 12681), (12, 12840), (13, 12993), (14, 13014), (15, 13059), (16, 13080), (17, 13095), (18, 13206),

Gene: CrystalP_21 Start: 12398, Stop: 13341, Start Num: 1

Candidate Starts for CrystalP_21:

(Start: 1 @12398 has 18 MA's), (Start: 2 @12470 has 80 MA's), (3, 12614), (4, 12707), (5, 12731), (6, 12743), (7, 12767), (8, 12785), (9, 12809), (12, 12968), (13, 13121), (14, 13142), (15, 13187), (16, 13208), (17, 13223), (18, 13334),

Gene: Czyszczone1_22 Start: 12146, Stop: 13089, Start Num: 1

Candidate Starts for Czyszczone1_22:

(Start: 1 @12146 has 18 MA's), (Start: 2 @12218 has 80 MA's), (3, 12362), (4, 12455), (5, 12479), (6, 12491), (7, 12515), (8, 12533), (9, 12557), (12, 12716), (13, 12869), (14, 12890), (15, 12935), (16, 12956), (17, 12971), (18, 13082),

Gene: DoctorDiddles_21 Start: 11635, Stop: 12506, Start Num: 2

Candidate Starts for DoctorDiddles_21:

(Start: 1 @11563 has 18 MA's), (Start: 2 @11635 has 80 MA's), (3, 11779), (4, 11872), (5, 11896), (6, 11908), (7, 11932), (8, 11950), (9, 11974), (12, 12133), (13, 12286), (14, 12307), (15, 12352), (16, 12373), (17, 12388), (18, 12499),

Gene: Dusk_20 Start: 12057, Stop: 13000, Start Num: 1

Candidate Starts for Dusk_20:

(Start: 1 @12057 has 18 MA's), (Start: 2 @12129 has 80 MA's), (3, 12273), (4, 12366), (5, 12390), (6, 12402), (7, 12426), (8, 12444), (9, 12468), (12, 12627), (13, 12780), (14, 12801), (15, 12846), (16, 12867), (17, 12882), (18, 12993),

Gene: Easy2Say_22 Start: 13206, Stop: 14080, Start Num: 2

Candidate Starts for Easy2Say_22:

(Start: 1 @13134 has 18 MA's), (Start: 2 @13206 has 80 MA's), (3, 13350), (4, 13443), (5, 13467), (6, 13479), (7, 13503), (8, 13521), (9, 13545), (12, 13704), (13, 13857), (14, 13878), (15, 13923), (16, 13944), (17, 13959), (18, 14070),

Gene: Elite2014_20 Start: 11683, Stop: 12554, Start Num: 2

Candidate Starts for Elite2014_20:

(Start: 1 @11611 has 18 MA's), (Start: 2 @11683 has 80 MA's), (3, 11827), (4, 11920), (5, 11944), (6, 11956), (7, 11980), (8, 11998), (9, 12022), (12, 12181), (13, 12334), (14, 12355), (15, 12400), (16, 12421), (17, 12436), (18, 12547),

Gene: Emmina_21 Start: 11788, Stop: 12662, Start Num: 2

Candidate Starts for Emmina_21:

(Start: 1 @11716 has 18 MA's), (Start: 2 @11788 has 80 MA's), (3, 11932), (4, 12025), (5, 12049), (6, 12061), (7, 12085), (8, 12103), (9, 12127), (12, 12286), (13, 12439), (14, 12460), (15, 12505), (16, 12526), (17, 12541), (18, 12652),

Gene: Filch_22 Start: 12228, Stop: 13099, Start Num: 2

Candidate Starts for Filch_22:

(Start: 1 @12156 has 18 MA's), (Start: 2 @12228 has 80 MA's), (3, 12372), (4, 12465), (5, 12489), (6, 12501), (7, 12525), (8, 12543), (9, 12567), (12, 12726), (13, 12879), (14, 12900), (15, 12945), (16, 12966), (17, 12981), (18, 13092),

Gene: FireRed_20 Start: 11979, Stop: 12853, Start Num: 2

Candidate Starts for FireRed_20:

(Start: 1 @11907 has 18 MA's), (Start: 2 @11979 has 80 MA's), (3, 12123), (4, 12216), (5, 12240), (6, 12252), (7, 12276), (8, 12294), (9, 12318), (12, 12477), (13, 12630), (14, 12651), (15, 12696), (16, 12717), (17, 12732), (18, 12843),

Gene: Flypotenuse_19 Start: 12086, Stop: 12957, Start Num: 2

Candidate Starts for Flypotenuse_19:

(Start: 1 @12014 has 18 MA's), (Start: 2 @12086 has 80 MA's), (3, 12230), (4, 12323), (5, 12347), (6, 12359), (7, 12383), (8, 12401), (9, 12425), (12, 12584), (13, 12737), (14, 12758), (15, 12803), (16, 12824), (17, 12839), (18, 12950),

Gene: Gage_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for Gage_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Gator_19 Start: 12013, Stop: 12956, Start Num: 1

Candidate Starts for Gator_19:

(Start: 1 @12013 has 18 MA's), (Start: 2 @12085 has 80 MA's), (3, 12229), (4, 12322), (5, 12346), (6, 12358), (7, 12382), (8, 12400), (9, 12424), (12, 12583), (13, 12736), (14, 12757), (15, 12802), (16, 12823), (17, 12838), (18, 12949),

Gene: Gemini_23 Start: 12463, Stop: 13337, Start Num: 2

Candidate Starts for Gemini_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Glexan_19 Start: 12014, Stop: 12957, Start Num: 1

Candidate Starts for Glexan_19:

(Start: 1 @12014 has 18 MA's), (Start: 2 @12086 has 80 MA's), (3, 12230), (4, 12323), (5, 12347), (6, 12359), (7, 12383), (8, 12401), (9, 12425), (12, 12584), (13, 12737), (14, 12758), (15, 12803), (16, 12824), (17, 12839), (18, 12950),

Gene: GoldenSpark_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for GoldenSpark_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Goldilocks_22 Start: 11880, Stop: 12751, Start Num: 2

Candidate Starts for Goldilocks_22:

(Start: 1 @11808 has 18 MA's), (Start: 2 @11880 has 80 MA's), (3, 12024), (4, 12117), (5, 12141), (6, 12153), (7, 12177), (8, 12195), (9, 12219), (12, 12378), (13, 12531), (14, 12552), (15, 12597), (16, 12618), (17, 12633), (18, 12744),

Gene: GooberAzure_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for GooberAzure_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: HanKaySha_22 Start: 12218, Stop: 13089, Start Num: 2

Candidate Starts for HanKaySha_22:

(Start: 1 @12146 has 18 MA's), (Start: 2 @12218 has 80 MA's), (3, 12362), (4, 12455), (5, 12479), (6, 12491), (7, 12515), (8, 12533), (9, 12557), (12, 12716), (13, 12869), (14, 12890), (15, 12935), (16, 12956), (17, 12971), (18, 13082),

Gene: Harella_19 Start: 12086, Stop: 12960, Start Num: 2

Candidate Starts for Harella_19:

(Start: 1 @12014 has 18 MA's), (Start: 2 @12086 has 80 MA's), (3, 12230), (4, 12323), (5, 12347), (6, 12359), (7, 12383), (8, 12401), (9, 12425), (12, 12584), (13, 12737), (14, 12758), (15, 12803), (16, 12824), (17, 12839), (18, 12950),

Gene: Henry_20 Start: 12469, Stop: 13340, Start Num: 2

Candidate Starts for Henry_20:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Highbury_22 Start: 12137, Stop: 13008, Start Num: 2

Candidate Starts for Highbury_22:

(Start: 1 @12065 has 18 MA's), (Start: 2 @12137 has 80 MA's), (3, 12281), (4, 12374), (5, 12398), (6, 12410), (7, 12434), (8, 12452), (9, 12476), (12, 12635), (13, 12788), (14, 12809), (15, 12854), (16, 12875), (17, 12890), (18, 13001),

Gene: Holt_22 Start: 11753, Stop: 12624, Start Num: 2

Candidate Starts for Holt_22:

(Start: 1 @11681 has 18 MA's), (Start: 2 @11753 has 80 MA's), (3, 11897), (4, 11990), (5, 12014), (6, 12026), (7, 12050), (8, 12068), (9, 12092), (12, 12251), (13, 12404), (14, 12425), (15, 12470), (16, 12491), (17, 12506), (18, 12617),

Gene: Hoonter_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for Hoonter_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Hopey_22 Start: 12156, Stop: 13102, Start Num: 1

Candidate Starts for Hopey_22:

(Start: 1 @12156 has 18 MA's), (Start: 2 @12228 has 80 MA's), (3, 12372), (4, 12465), (5, 12489), (6, 12501), (7, 12525), (8, 12543), (9, 12567), (12, 12726), (13, 12879), (14, 12900), (15, 12945), (16, 12966), (17, 12981), (18, 13092),

Gene: IHOP_20 Start: 12057, Stop: 13003, Start Num: 1

Candidate Starts for IHOP_20:

(Start: 1 @12057 has 18 MA's), (Start: 2 @12129 has 80 MA's), (3, 12273), (4, 12366), (5, 12390), (6, 12402), (7, 12426), (8, 12444), (9, 12468), (12, 12627), (13, 12780), (14, 12801), (15, 12846), (16, 12867), (17, 12882), (18, 12993),

Gene: Icee_20 Start: 12129, Stop: 13000, Start Num: 2

Candidate Starts for Icee_20:

(Start: 1 @12057 has 18 MA's), (Start: 2 @12129 has 80 MA's), (3, 12273), (4, 12366), (5, 12390), (6, 12402), (7, 12426), (8, 12444), (9, 12468), (12, 12627), (13, 12780), (14, 12801), (15, 12846), (16, 12867), (17, 12882), (18, 12993),

Gene: Inca_20 Start: 11149, Stop: 12020, Start Num: 2

Candidate Starts for Inca_20:

(Start: 1 @11077 has 18 MA's), (Start: 2 @11149 has 80 MA's), (3, 11293), (4, 11386), (5, 11410), (6, 11422), (7, 11446), (8, 11464), (9, 11488), (12, 11647), (13, 11800), (14, 11821), (15, 11866), (16, 11887), (17, 11902), (18, 12013),

Gene: JeTaime_23 Start: 13268, Stop: 14139, Start Num: 2

Candidate Starts for JeTaime_23:

(Start: 1 @13196 has 18 MA's), (Start: 2 @13268 has 80 MA's), (3, 13412), (4, 13505), (5, 13529), (6, 13541), (7, 13565), (8, 13583), (9, 13607), (12, 13766), (13, 13919), (14, 13940), (15, 13985), (16, 14006), (17, 14021), (18, 14132),

Gene: Kanye_23 Start: 13384, Stop: 14327, Start Num: 1

Candidate Starts for Kanye_23:

(Start: 1 @13384 has 18 MA's), (Start: 2 @13456 has 80 MA's), (3, 13600), (4, 13693), (5, 13717), (6, 13729), (7, 13753), (8, 13771), (9, 13795), (12, 13954), (13, 14107), (14, 14128), (15, 14173), (16, 14194), (17, 14209), (18, 14320),

Gene: Kimchi_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for Kimchi_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Lilizi_23 Start: 12175, Stop: 13046, Start Num: 2

Candidate Starts for Lilizi_23:

(Start: 1 @12103 has 18 MA's), (Start: 2 @12175 has 80 MA's), (3, 12319), (4, 12412), (5, 12436), (6, 12448), (7, 12472), (8, 12490), (9, 12514), (12, 12673), (13, 12826), (14, 12847), (15, 12892), (16, 12913), (17, 12928), (18, 13039),

Gene: Lilpickle_20 Start: 11683, Stop: 12554, Start Num: 2

Candidate Starts for Lilpickle_20:

(Start: 1 @11611 has 18 MA's), (Start: 2 @11683 has 80 MA's), (3, 11827), (4, 11920), (5, 11944), (6, 11956), (7, 11980), (8, 11998), (9, 12022), (12, 12181), (13, 12334), (14, 12355), (15, 12400), (16, 12421), (17, 12436), (18, 12547),

Gene: MISSy_20 Start: 11979, Stop: 12850, Start Num: 2

Candidate Starts for MISSy_20:

(Start: 1 @11907 has 18 MA's), (Start: 2 @11979 has 80 MA's), (3, 12123), (4, 12216), (5, 12240), (6, 12252), (7, 12276), (8, 12294), (9, 12318), (12, 12477), (13, 12630), (14, 12651), (15, 12696), (16,

12717), (17, 12732), (18, 12843),

Gene: MPhalcon_20 Start: 11979, Stop: 12850, Start Num: 2

Candidate Starts for MPhalcon_20:

(Start: 1 @11907 has 18 MA's), (Start: 2 @11979 has 80 MA's), (3, 12123), (4, 12216), (5, 12240), (6, 12252), (7, 12276), (8, 12294), (9, 12318), (12, 12477), (13, 12630), (14, 12651), (15, 12696), (16, 12717), (17, 12732), (18, 12843),

Gene: MadamMonkfish_21 Start: 11894, Stop: 12765, Start Num: 2

Candidate Starts for MadamMonkfish_21:

(Start: 1 @11822 has 18 MA's), (Start: 2 @11894 has 80 MA's), (3, 12038), (4, 12131), (5, 12155), (6, 12167), (7, 12191), (8, 12209), (9, 12233), (12, 12392), (13, 12545), (14, 12566), (15, 12611), (16, 12632), (17, 12647), (18, 12758),

Gene: Marshmallow_21 Start: 12469, Stop: 13340, Start Num: 2

Candidate Starts for Marshmallow_21:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Maxxinsta_22 Start: 11871, Stop: 12814, Start Num: 1

Candidate Starts for Maxxinsta_22:

(Start: 1 @11871 has 18 MA's), (Start: 2 @11943 has 80 MA's), (3, 12087), (4, 12180), (5, 12204), (6, 12216), (7, 12240), (8, 12258), (9, 12282), (12, 12441), (13, 12594), (14, 12615), (15, 12660), (16, 12681), (17, 12696), (18, 12807),

Gene: Miniwave_21 Start: 12667, Stop: 13538, Start Num: 2

Candidate Starts for Miniwave_21:

(Start: 1 @12595 has 18 MA's), (Start: 2 @12667 has 80 MA's), (3, 12811), (4, 12904), (5, 12928), (6, 12940), (7, 12964), (8, 12982), (9, 13006), (12, 13165), (13, 13318), (14, 13339), (15, 13384), (16, 13405), (17, 13420), (18, 13531),

Gene: Misfit_21 Start: 12560, Stop: 13431, Start Num: 2

Candidate Starts for Misfit_21:

(Start: 1 @12488 has 18 MA's), (Start: 2 @12560 has 80 MA's), (3, 12704), (4, 12797), (5, 12821), (6, 12833), (7, 12857), (8, 12875), (9, 12899), (12, 13058), (13, 13211), (14, 13232), (15, 13277), (16, 13298), (17, 13313), (18, 13424),

Gene: Moldemort_22 Start: 12218, Stop: 13089, Start Num: 2

Candidate Starts for Moldemort_22:

(Start: 1 @12146 has 18 MA's), (Start: 2 @12218 has 80 MA's), (3, 12362), (4, 12455), (5, 12479), (6, 12491), (7, 12515), (8, 12533), (9, 12557), (12, 12716), (13, 12869), (14, 12890), (15, 12935), (16, 12956), (17, 12971), (18, 13082),

Gene: Murica_19 Start: 11935, Stop: 12809, Start Num: 2

Candidate Starts for Murica_19:

(Start: 1 @11863 has 18 MA's), (Start: 2 @11935 has 80 MA's), (3, 12079), (4, 12172), (5, 12196), (6, 12208), (7, 12232), (8, 12250), (9, 12274), (12, 12433), (13, 12586), (14, 12607), (15, 12652), (16, 12673), (17, 12688), (18, 12799),

Gene: Myrale_21 Start: 12268, Stop: 13211, Start Num: 1

Candidate Starts for Myrale_21:

(Start: 1 @12268 has 18 MA's), (Start: 2 @12340 has 80 MA's), (3, 12484), (4, 12577), (5, 12601), (6, 12613), (7, 12637), (8, 12655), (9, 12679), (12, 12838), (13, 12991), (14, 13012), (15, 13057), (16, 13078), (17, 13093), (18, 13204),

Gene: NelitzaMV_21 Start: 12539, Stop: 13410, Start Num: 2

Candidate Starts for NelitzaMV_21:

(Start: 1 @12467 has 18 MA's), (Start: 2 @12539 has 80 MA's), (3, 12683), (4, 12776), (5, 12800), (6, 12812), (7, 12836), (8, 12854), (9, 12878), (12, 13037), (13, 13190), (14, 13211), (15, 13256), (16, 13277), (17, 13292), (18, 13403),

Gene: Nimrod_21 Start: 12643, Stop: 13586, Start Num: 1

Candidate Starts for Nimrod_21:

(Start: 1 @12643 has 18 MA's), (Start: 2 @12715 has 80 MA's), (3, 12859), (4, 12952), (5, 12976), (6, 12988), (7, 13012), (8, 13030), (9, 13054), (12, 13213), (13, 13366), (14, 13387), (15, 13432), (16, 13453), (17, 13468), (18, 13579),

Gene: NoSleep_22 Start: 12215, Stop: 13086, Start Num: 2

Candidate Starts for NoSleep_22:

(Start: 1 @12143 has 18 MA's), (Start: 2 @12215 has 80 MA's), (3, 12359), (4, 12452), (5, 12476), (6, 12488), (7, 12512), (8, 12530), (9, 12554), (12, 12713), (13, 12866), (14, 12887), (15, 12932), (16, 12953), (17, 12968), (18, 13079),

Gene: OrionPax_22 Start: 12218, Stop: 13089, Start Num: 2

Candidate Starts for OrionPax_22:

(Start: 1 @12146 has 18 MA's), (Start: 2 @12218 has 80 MA's), (3, 12362), (4, 12455), (5, 12479), (6, 12491), (7, 12515), (8, 12533), (9, 12557), (12, 12716), (13, 12869), (14, 12890), (15, 12935), (16, 12956), (17, 12971), (18, 13082),

Gene: Palpatine_20 Start: 11974, Stop: 12848, Start Num: 2

Candidate Starts for Palpatine_20:

(Start: 1 @11902 has 18 MA's), (Start: 2 @11974 has 80 MA's), (3, 12118), (4, 12211), (5, 12235), (6, 12247), (7, 12271), (8, 12289), (9, 12313), (12, 12472), (13, 12625), (14, 12646), (15, 12691), (16, 12712), (17, 12727), (18, 12838),

Gene: Paperbeatsrock_23 Start: 13450, Stop: 14321, Start Num: 2

Candidate Starts for Paperbeatsrock_23:

(Start: 1 @13378 has 18 MA's), (Start: 2 @13450 has 80 MA's), (3, 13594), (4, 13687), (5, 13711), (6, 13723), (7, 13747), (8, 13765), (9, 13789), (12, 13948), (13, 14101), (14, 14122), (15, 14167), (16, 14188), (17, 14203), (18, 14314),

Gene: Phaja_20 Start: 12057, Stop: 13003, Start Num: 1

Candidate Starts for Phaja_20:

(Start: 1 @12057 has 18 MA's), (Start: 2 @12129 has 80 MA's), (3, 12273), (4, 12366), (5, 12390), (6, 12402), (7, 12426), (8, 12444), (9, 12468), (12, 12627), (13, 12780), (14, 12801), (15, 12846), (16, 12867), (17, 12882), (18, 12993),

Gene: Pharsalus_22 Start: 13178, Stop: 14121, Start Num: 1

Candidate Starts for Pharsalus_22:

(Start: 1 @13178 has 18 MA's), (Start: 2 @13250 has 80 MA's), (3, 13394), (4, 13487), (5, 13511), (6, 13523), (7, 13547), (8, 13565), (9, 13589), (12, 13748), (13, 13901), (14, 13922), (15, 13967), (16, 13988), (17, 14003), (18, 14114),

Gene: Policronamos_20 Start: 11979, Stop: 12853, Start Num: 2

Candidate Starts for Policronamos_20:

(Start: 1 @11907 has 18 MA's), (Start: 2 @11979 has 80 MA's), (3, 12123), (4, 12216), (5, 12240), (6, 12252), (7, 12276), (8, 12294), (9, 12318), (12, 12477), (13, 12630), (14, 12651), (15, 12696), (16, 12717), (17, 12732), (18, 12843),

Gene: Quallification_22 Start: 12676, Stop: 13547, Start Num: 2

Candidate Starts for Quallification_22:

(Start: 1 @12604 has 18 MA's), (Start: 2 @12676 has 80 MA's), (3, 12820), (4, 12913), (5, 12937), (6, 12949), (7, 12973), (8, 12991), (9, 13015), (12, 13174), (13, 13327), (14, 13348), (15, 13393), (16, 13414), (17, 13429), (18, 13540),

Gene: Rimmer_20 Start: 12036, Stop: 12907, Start Num: 2

Candidate Starts for Rimmer_20:

(Start: 1 @11964 has 18 MA's), (Start: 2 @12036 has 80 MA's), (3, 12180), (4, 12273), (5, 12297), (6, 12309), (7, 12333), (8, 12351), (9, 12375), (12, 12534), (13, 12687), (14, 12708), (15, 12753), (16, 12774), (17, 12789), (18, 12900),

Gene: Saints25_22 Start: 12137, Stop: 13008, Start Num: 2

Candidate Starts for Saints25_22:

(Start: 1 @12065 has 18 MA's), (Start: 2 @12137 has 80 MA's), (3, 12281), (4, 12374), (5, 12398), (6, 12410), (7, 12434), (8, 12452), (9, 12476), (12, 12635), (13, 12788), (14, 12809), (15, 12854), (16, 12875), (17, 12890), (18, 13001),

Gene: Sassay_20 Start: 11977, Stop: 12848, Start Num: 2

Candidate Starts for Sassay_20:

(Start: 1 @11905 has 18 MA's), (Start: 2 @11977 has 80 MA's), (3, 12121), (4, 12214), (5, 12238), (6, 12250), (7, 12274), (8, 12292), (9, 12316), (12, 12475), (13, 12628), (14, 12649), (15, 12694), (16, 12715), (17, 12730), (18, 12841),

Gene: ShamWow_21 Start: 12470, Stop: 13341, Start Num: 2

Candidate Starts for ShamWow_21:

(Start: 1 @12398 has 18 MA's), (Start: 2 @12470 has 80 MA's), (3, 12614), (4, 12707), (5, 12731), (6, 12743), (7, 12767), (8, 12785), (9, 12809), (12, 12968), (13, 13121), (14, 13142), (15, 13187), (16, 13208), (17, 13223), (18, 13334),

Gene: ShereKhan_23 Start: 13456, Stop: 14327, Start Num: 2

Candidate Starts for ShereKhan_23:

(Start: 1 @13384 has 18 MA's), (Start: 2 @13456 has 80 MA's), (3, 13600), (4, 13693), (5, 13717), (6, 13729), (7, 13753), (8, 13771), (9, 13795), (12, 13954), (13, 14107), (14, 14128), (15, 14173), (16, 14194), (17, 14209), (18, 14320),

Gene: Simpliphy_22 Start: 12218, Stop: 13089, Start Num: 2

Candidate Starts for Simpliphy_22:

(Start: 1 @12146 has 18 MA's), (Start: 2 @12218 has 80 MA's), (3, 12362), (4, 12455), (5, 12479), (6, 12491), (7, 12515), (8, 12533), (9, 12557), (12, 12716), (13, 12869), (14, 12890), (15, 12935), (16, 12956), (17, 12971), (18, 13082),

Gene: SophKB_21 Start: 12397, Stop: 13340, Start Num: 1

Candidate Starts for SophKB_21:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Sotrice96_21 Start: 12425, Stop: 13296, Start Num: 2

Candidate Starts for Sotrice96_21:

(Start: 1 @12353 has 18 MA's), (Start: 2 @12425 has 80 MA's), (3, 12569), (4, 12662), (5, 12686), (6, 12698), (7, 12722), (8, 12740), (9, 12764), (12, 12923), (13, 13076), (14, 13097), (15, 13142), (16, 13163), (17, 13178), (18, 13289),

Gene: Stank_23 Start: 12463, Stop: 13337, Start Num: 2

Candidate Starts for Stank_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Stark_22 Start: 12231, Stop: 13102, Start Num: 2

Candidate Starts for Stark_22:

(Start: 1 @12159 has 18 MA's), (Start: 2 @12231 has 80 MA's), (3, 12375), (4, 12468), (5, 12492), (6, 12504), (7, 12528), (8, 12546), (9, 12570), (12, 12729), (13, 12882), (14, 12903), (15, 12948), (16, 12969), (17, 12984), (18, 13095),

Gene: StellaBean_21 Start: 12397, Stop: 13340, Start Num: 1

Candidate Starts for StellaBean_21:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: StolenFromERC_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for StolenFromERC_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: TBrady12_23 Start: 12460, Stop: 13331, Start Num: 2

Candidate Starts for TBrady12_23:

(Start: 1 @12388 has 18 MA's), (Start: 2 @12460 has 80 MA's), (3, 12604), (4, 12697), (5, 12721), (6, 12733), (7, 12757), (8, 12775), (9, 12799), (11, 12877), (12, 12958), (13, 13111), (14, 13132), (15, 13177), (16, 13198), (17, 13213), (18, 13324),

Gene: Tarkin_23 Start: 13459, Stop: 14330, Start Num: 2

Candidate Starts for Tarkin_23:

(Start: 1 @13387 has 18 MA's), (Start: 2 @13459 has 80 MA's), (3, 13603), (4, 13696), (5, 13720), (6, 13732), (7, 13756), (8, 13774), (9, 13798), (12, 13957), (13, 14110), (14, 14131), (15, 14176), (16, 14197), (17, 14212), (18, 14323),

Gene: TeardropMSU_20 Start: 12377, Stop: 13248, Start Num: 2

Candidate Starts for TeardropMSU_20:

(Start: 1 @12305 has 18 MA's), (Start: 2 @12377 has 80 MA's), (3, 12521), (4, 12614), (5, 12638), (6, 12650), (7, 12674), (8, 12692), (9, 12716), (12, 12875), (13, 13028), (14, 13049), (15, 13094), (16, 13115), (17, 13130), (18, 13241),

Gene: Teaspoon_21 Start: 11841, Stop: 12787, Start Num: 1

Candidate Starts for Teaspoon_21:

(Start: 1 @11841 has 18 MA's), (Start: 2 @11913 has 80 MA's), (3, 12057), (4, 12150), (5, 12174), (6, 12186), (7, 12210), (8, 12228), (9, 12252), (12, 12411), (13, 12564), (14, 12585), (15, 12630), (16, 12651), (17, 12666), (18, 12777),

Gene: Terminus_21 Start: 12560, Stop: 13431, Start Num: 2

Candidate Starts for Terminus_21:

(Start: 1 @12488 has 18 MA's), (Start: 2 @12560 has 80 MA's), (3, 12704), (4, 12797), (5, 12821), (6, 12833), (7, 12857), (8, 12875), (9, 12899), (12, 13058), (13, 13211), (14, 13232), (15, 13277), (16, 13298), (17, 13313), (18, 13424),

Gene: Thimble_21 Start: 11426, Stop: 12297, Start Num: 2

Candidate Starts for Thimble_21:

(Start: 1 @11354 has 18 MA's), (Start: 2 @11426 has 80 MA's), (3, 11570), (4, 11663), (5, 11687), (6, 11699), (7, 11723), (8, 11741), (9, 11765), (12, 11924), (13, 12077), (14, 12098), (15, 12143), (16, 12164), (17, 12179), (18, 12290),

Gene: Thresher_22 Start: 13221, Stop: 14092, Start Num: 2

Candidate Starts for Thresher_22:

(Start: 1 @13149 has 18 MA's), (Start: 2 @13221 has 80 MA's), (3, 13365), (4, 13458), (5, 13482), (6, 13494), (7, 13518), (8, 13536), (9, 13560), (12, 13719), (13, 13872), (14, 13893), (15, 13938), (16, 13959), (17, 13974), (18, 14085),

Gene: Tomaszewski_20 Start: 12070, Stop: 12941, Start Num: 2

Candidate Starts for Tomaszewski_20:

(Start: 1 @11998 has 18 MA's), (Start: 2 @12070 has 80 MA's), (3, 12214), (4, 12307), (5, 12331), (6, 12343), (7, 12367), (8, 12385), (9, 12409), (12, 12568), (13, 12721), (14, 12742), (15, 12787), (16, 12808), (17, 12823), (18, 12934),

Gene: Traaww1_18 Start: 12115, Stop: 12986, Start Num: 2

Candidate Starts for Traaww1_18:

(Start: 1 @12043 has 18 MA's), (Start: 2 @12115 has 80 MA's), (3, 12259), (4, 12352), (5, 12376), (6, 12388), (7, 12412), (8, 12430), (9, 12454), (12, 12613), (13, 12766), (14, 12787), (15, 12832), (16, 12853), (17, 12868), (18, 12979),

Gene: Tuco_21 Start: 12469, Stop: 13343, Start Num: 2

Candidate Starts for Tuco_21:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Wiggin_23 Start: 12463, Stop: 13337, Start Num: 2

Candidate Starts for Wiggin_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16, 13201), (17, 13216), (18, 13327),

Gene: Willez_20 Start: 11977, Stop: 12848, Start Num: 2

Candidate Starts for Willez_20:

(Start: 1 @11905 has 18 MA's), (Start: 2 @11977 has 80 MA's), (3, 12121), (4, 12214), (5, 12238), (6, 12250), (7, 12274), (8, 12292), (9, 12316), (12, 12475), (13, 12628), (14, 12649), (15, 12694), (16, 12715), (17, 12730), (18, 12841),

Gene: Xandras_23 Start: 12463, Stop: 13334, Start Num: 2

Candidate Starts for Xandras_23:

(Start: 1 @12391 has 18 MA's), (Start: 2 @12463 has 80 MA's), (3, 12607), (4, 12700), (5, 12724), (6, 12736), (7, 12760), (8, 12778), (9, 12802), (12, 12961), (13, 13114), (14, 13135), (15, 13180), (16,

13201), (17, 13216), (18, 13327),

Gene: YassJohnny_21 Start: 12469, Stop: 13343, Start Num: 2

Candidate Starts for YassJohnny_21:

(Start: 1 @12397 has 18 MA's), (Start: 2 @12469 has 80 MA's), (3, 12613), (4, 12706), (5, 12730), (6, 12742), (7, 12766), (8, 12784), (9, 12808), (12, 12967), (13, 13120), (14, 13141), (15, 13186), (16, 13207), (17, 13222), (18, 13333),

Gene: Youngblood_21 Start: 12641, Stop: 13512, Start Num: 2

Candidate Starts for Youngblood_21:

(Start: 1 @12569 has 18 MA's), (Start: 2 @12641 has 80 MA's), (3, 12785), (4, 12878), (5, 12902), (6, 12914), (7, 12938), (8, 12956), (9, 12980), (12, 13139), (13, 13292), (14, 13313), (15, 13358), (16, 13379), (17, 13394), (18, 13505),

Gene: xkcd_21 Start: 12129, Stop: 13003, Start Num: 2

Candidate Starts for xkcd_21:

(Start: 1 @12057 has 18 MA's), (Start: 2 @12129 has 80 MA's), (3, 12273), (4, 12366), (5, 12390), (6, 12402), (7, 12426), (8, 12444), (9, 12468), (12, 12627), (13, 12780), (14, 12801), (15, 12846), (16, 12867), (17, 12882), (18, 12993),