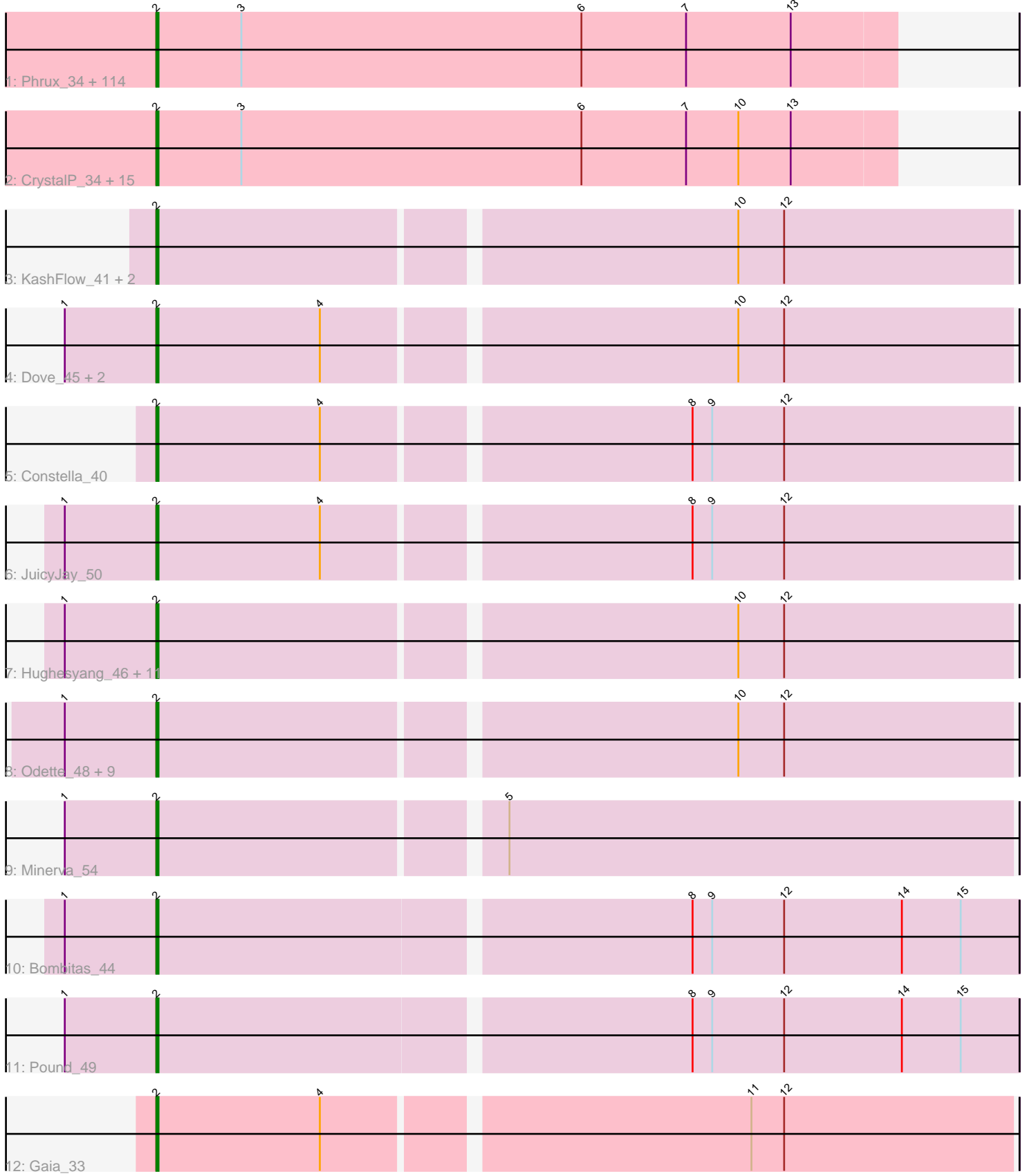


Pham 197880



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 197880 Report

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

Pham number 197880 has 165 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Phrux_34, 244_36, Stark_35, Gemini_37, PhatBacter_34, Elite2014_33, BugsBunny_32, FairyPath_34, Pumpkin_36, Harella_33, Misfit_34, Maxxinista_35, Elph10_35, Icee_33, Tarkin_36, Emmina_35, Moldemort_35, BaboJay_33, Simpliphy_35, Gage_36, BadStone_33, Saints25_35, Flypotenuse_32, HufflyPuff_33, Kimchi_36, Asriel_33, HanKaySha_35, ShereKhan_36, Lilpickle_33, DoctorDiddles_34, Henry_35, Phaja_34, FireRed_34, Bask21_34, Bruin_34, ABCat_33, Argent26_36, Wiggin_37, Xandras_36, Rakim_35, Willez_33, MISSy_33, Nimrod_34, Dumbo_34, DrDrey_35, Qualification_35, Paperbeatsrock_36, StolenFromERC_36, Easy2Say_36, Contagion_33, Holt_35, MadamMonkfish_34, StellaBean_34, JeTaime_36, SirDuracell_33, Mindy_34, Cjw1_34, Nala_34, Hoonter_36, Traaww1_32, Tomaszewski_33, Tuco_35, Mosby_33, Myrale_34, ChosenOne_34, Ukulele_34, Lilac_36, Marshmallow_34, TBrady12_36, Barbarian_33, Balomoji_33, Cookies_34, Palpatine_34, Phaux_33, Highbury_35, Porky_34, YassJohnny_35, Rimmer_33, Filch_35, SophKB_34, Teaspoon_35, Sotrice96_34, MPhalcon_33, Glexan_32, Amao_34, NoSleep_35, xkcd_35, Czystczon1_35, Cactus_35, Kanye_36, Adnama_37, RiverMonster_34, TeardropMSU_33, GooberAzure_36, GoldenSpark_36, IHOP_34, Thresher_35, Lilizi_36, Hopey_36, OrionPax_35, AmericanBeauty_36, Stank_37, Terminus_34, Goldilocks_35, Sassay_33, Policronamos_35, Murica_33, Dusk_33, Bench_36, Pharsalus_35, Murphy_35, Command613_35, Inca_33, Miniwave_34, Gator_32
- Track 2 : CrystalP_34, ChotaBhai_34, Goku_34, Petra64142_36, Eureka_34, Kostya_35, NelitzaMV_34, BilboSwaggins_34, Manda_35, Daikon_33, Buck_33, Youngblood_34, BigBubba_35, Pat3_33, ShamWow_34, Toto_34
- Track 3 : KashFlow_41, Hannaconda_44, Omega_52
- Track 4 : Dove_45, Klein_48, NihilNomen_47
- Track 5 : Constella_40
- Track 6 : JuicyJay_50
- Track 7 : Hughesyang_46, Halley_48, Wanda_54, Bagrid_47, Kalah2_48, HokkenD_41, Yeet_46, Phoebus_47, BAKA_52, EricMillard_48, Ejimix_48, Beem_48
- Track 8 : Odette_48, Redno2_46, ThreeRngTarjay_46, Schatzie_45, Dallas_50, DmpstrDiver_49, Duke13_51, Zelink_49, Optimus_53, LittleE_52
- Track 9 : Minerva_54
- Track 10 : Bombitas_44
- Track 11 : Pound_49
- Track 12 : Gaia_33

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 155 of the 155 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_36, ABCat_33, Adnama_37, Amao_34, AmericanBeauty_36, Argent26_36, Asriel_33, BAKA_52, BaboJay_33, BadStone_33, Bagrid_47, Balomoji_33, Barbarian_33, Bask21_34, Beem_48, Bench_36, BigBubba_35, BilboSwaggins_34, Bombitas_44, Bruin_34, Buck_33, BugsBunny_32, Cactus_35, ChosenOne_34, ChotaBhai_34, Cjw1_34, Command613_35, Constella_40, Contagion_33, Cookies_34, CrystalP_34, Czyszczo1_35, Daikon_33, Dallas_50, DmpstrDiver_49, DoctorDiddles_34, Dove_45, DrDrey_35, Duke13_51, Dumbo_34, Dusk_33, Easy2Say_36, Ejimix_48, Elite2014_33, Elph10_35, Emmina_35, EricMillard_48, Eureka_34, FairyPath_34, Filch_35, FireRed_34, Flypotenuse_32, Gage_36, Gaia_33, Gator_32, Gemini_37, Glexan_32, Goku_34, GoldenSpark_36, Goldilocks_35, GooberAzure_36, Halley_48, HanKaySha_35, Hannaconda_44, Harella_33, Henry_35, Highbury_35, HokkenD_41, Holt_35, Hoonter_36, Hopey_36, HuffyPuff_33, Hughesyang_46, IHOP_34, Icee_33, Inca_33, JeTaime_36, JuicyJay_50, Kalah2_48, Kanye_36, KashFlow_41, Kimchi_36, Klein_48, Kostya_35, Lilac_36, Lilizi_36, Lilpickle_33, LittleE_52, MISSy_33, MPhalcon_33, MadamMonkfish_34, Manda_35, Marshmallow_34, Maxxinista_35, Mindy_34, Minerva_54, Miniwave_34, Misfit_34, Moldemort_35, Mosby_33, Murica_33, Murphy_35, Myrale_34, Nala_34, NelitzaMV_34, NihilNomen_47, Nimrod_34, NoSleep_35, Odette_48, Omega_52, Optimus_53, OrionPax_35, Palpatine_34, Paperbeatsrock_36, Pat3_33, Petra64142_36, Phaja_34, Pharsalus_35, PhatBacter_34, Phaux_33, Phoebus_47, Phrux_34, Policronamos_35, Porky_34, Pound_49, Pumpkin_36, Quallification_35, Rakim_35, Redno2_46, Rimmer_33, RiverMonster_34, Saints25_35, Sassay_33, Schatzie_45, ShamWow_34, ShereKhan_36, Simpliphy_35, SirDuracell_33, SophKB_34, Sotrice96_34, Stank_37, Stark_35, StellaBean_34, StolenFromERC_36, TBrady12_36, Tarkin_36, TeardropMSU_33, Teaspoon_35, Terminus_34, ThreeRngTarjay_46, Thresher_35, Tomaszewski_33, Toto_34, Traaww1_32, Tuco_35, Ukulele_34, Wanda_54, Wiggin_37, Willez_33, Xandras_36, YassJohnny_35, Yeet_46, Youngblood_34, Zelink_49, xkcd_35,

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

-

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

-

Summary by start number:

Start 2:

- Found in 165 of 165 (100.0%) of genes in pham
- Manual Annotations of this start: 155 of 155
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_36 (E), ABCat_33 (E), Adnama_37 (E), Amao_34 (E), AmericanBeauty_36 (E), Argent26_36 (E), Asriel_33 (E), BAKA_52 (J), BaboJay_33 (E), BadStone_33 (E), Bagrid_47 (J), Balomoji_33 (E), Barbarian_33 (E), Bask21_34 (E), Beem_48 (J), Bench_36 (E), BigBubba_35 (E),

BilboSwaggins_34 (E), Bombitas_44 (J), Bruin_34 (E), Buck_33 (E), BugsBunny_32 (E), Cactus_35 (E), ChosenOne_34 (E), ChotaBhai_34 (E), Cjw1_34 (E), Command613_35 (E), Constella_40 (J), Contagion_33 (E), Cookies_34 (E), CrystalP_34 (E), Czyszczonek_35 (E), Daikon_33 (E), Dallas_50 (J), DmpstrDiver_49 (J), DoctorDiddles_34 (E), Dove_45 (J), DrDrey_35 (E), Duke13_51 (J), Dumbo_34 (E), Dusk_33 (E), Easy2Say_36 (E), Ejimix_48 (J), Elite2014_33 (E), Elph10_35 (E), Emmina_35 (E), EricMillard_48 (J), Eureka_34 (E), FairyPath_34 (E), Filch_35 (E), FireRed_34 (E), Flypotenuse_32 (E), Gage_36 (E), Gaia_33 (X), Gator_32 (E), Gemini_37 (E), Glexan_32 (E), Goku_34 (E), GoldenSpark_36 (E), Goldilocks_35 (E), GooberAzure_36 (E), Halley_48 (J), HanKaySha_35 (E), Hannaconda_44 (J), Harella_33 (E), Henry_35 (E), Highbury_35 (E), HokkenD_41 (J), Holt_35 (E), Hoonter_36 (E), Hopey_36 (E), HufflyPuff_33 (E), Hughesyang_46 (J), IHOP_34 (E), Icee_33 (E), Inca_33 (E), JeTaime_36 (E), JuicyJay_50 (J), Kalah2_48 (J), Kanye_36 (E), KashFlow_41 (J), Kimchi_36 (E), Klein_48 (J), Kostya_35 (E), Lilac_36 (E), Lilizi_36 (E), Lilpickle_33 (E), LittleE_52 (J), MISSy_33 (E), MPhalcon_33 (E), MadamMonkfish_34 (E), Manda_35 (E), Marshmallow_34 (E), Maxxinista_35 (E), Mindy_34 (E), Minerva_54 (J), Miniwave_34 (E), Misfit_34 (E), Moldemort_35 (E), Mosby_33 (E), Murica_33 (E), Murphy_35 (E), Myrale_34 (E), Nala_34 (E), NelitzaMV_34 (E), NihilNomen_47 (J), Nimrod_34 (E), NoSleep_35 (E), Odette_48 (J), Omega_52 (J), Optimus_53 (J), OrionPax_35 (E), Palpatine_34 (E), Paperbeatsrock_36 (E), Pat3_33 (E), Petra64142_36 (E), Phaja_34 (E), Pharsalus_35 (E), PhatBacter_34 (E), Phaux_33 (E), Phoebus_47 (J), Phrux_34 (E), Policronamos_35 (E), Porky_34 (E), Pound_49 (J), Pumpkin_36 (E), Qualification_35 (E), Rakim_35 (E), Redno2_46 (J), Rimmer_33 (E), RiverMonster_34 (E), Saints25_35 (E), Sassay_33 (E), Schatzie_45 (J), ShamWow_34 (E), ShereKhan_36 (E), Simpliphy_35 (E), SirDuracell_33 (E), SophKB_34 (E), Sotrice96_34 (E), Stank_37 (E), Stark_35 (E), StellaBean_34 (E), StolenFromERC_36 (E), TBrady12_36 (E), Tarkin_36 (E), TeardropMSU_33 (E), Teaspoon_35 (E), Terminus_34 (E), ThreeRngTarjay_46 (J), Thresher_35 (E), Tomaszewski_33 (E), Toto_34 (E), Traaww1_32 (E), Tuco_35 (E), Ukulele_34 (E), Wanda_54 (J), Wiggin_37 (E), Willez_33 (E), Xandras_36 (E), YassJohnny_35 (E), Yeet_46 (J), Youngblood_34 (E), Zelink_49 (J), xkcd_35 (E),

Summary by clusters:

There are 3 clusters represented in this pham: X, J, E,

Info for manual annotations of cluster E:

- Start number 2 was manually annotated 123 times for cluster E.

Info for manual annotations of cluster J:

- Start number 2 was manually annotated 31 times for cluster J.

Info for manual annotations of cluster X:

- Start number 2 was manually annotated 1 time for cluster X.

Gene Information:

Gene: 244_36 Start: 31803, Stop: 32141, Start Num: 2

Candidate Starts for 244_36:

(Start: 2 @31803 has 155 MA's), (3, 31842), (6, 31998), (7, 32046), (13, 32094),

Gene: ABCat_33 Start: 31515, Stop: 31853, Start Num: 2
Candidate Starts for ABCat_33:
(Start: 2 @31515 has 155 MA's), (3, 31554), (6, 31710), (7, 31758), (13, 31806),

Gene: Adnama_37 Start: 32030, Stop: 32368, Start Num: 2
Candidate Starts for Adnama_37:
(Start: 2 @32030 has 155 MA's), (3, 32069), (6, 32225), (7, 32273), (13, 32321),

Gene: Amao_34 Start: 30727, Stop: 31065, Start Num: 2
Candidate Starts for Amao_34:
(Start: 2 @30727 has 155 MA's), (3, 30766), (6, 30922), (7, 30970), (13, 31018),

Gene: AmericanBeauty_36 Start: 31510, Stop: 31848, Start Num: 2
Candidate Starts for AmericanBeauty_36:
(Start: 2 @31510 has 155 MA's), (3, 31549), (6, 31705), (7, 31753), (13, 31801),

Gene: Argent26_36 Start: 31513, Stop: 31851, Start Num: 2
Candidate Starts for Argent26_36:
(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Asriel_33 Start: 30384, Stop: 30722, Start Num: 2
Candidate Starts for Asriel_33:
(Start: 2 @30384 has 155 MA's), (3, 30423), (6, 30579), (7, 30627), (13, 30675),

Gene: BAKA_52 Start: 42300, Stop: 42680, Start Num: 2
Candidate Starts for BAKA_52:
(1, 42258), (Start: 2 @42300 has 155 MA's), (10, 42555), (12, 42576),

Gene: BaboJay_33 Start: 31073, Stop: 31411, Start Num: 2
Candidate Starts for BaboJay_33:
(Start: 2 @31073 has 155 MA's), (3, 31112), (6, 31268), (7, 31316), (13, 31364),

Gene: BadStone_33 Start: 31515, Stop: 31853, Start Num: 2
Candidate Starts for BadStone_33:
(Start: 2 @31515 has 155 MA's), (3, 31554), (6, 31710), (7, 31758), (13, 31806),

Gene: Bagrid_47 Start: 41633, Stop: 42013, Start Num: 2
Candidate Starts for Bagrid_47:
(1, 41591), (Start: 2 @41633 has 155 MA's), (10, 41888), (12, 41909),

Gene: Balomoji_33 Start: 31249, Stop: 31587, Start Num: 2
Candidate Starts for Balomoji_33:
(Start: 2 @31249 has 155 MA's), (3, 31288), (6, 31444), (7, 31492), (13, 31540),

Gene: Barbarian_33 Start: 30384, Stop: 30722, Start Num: 2
Candidate Starts for Barbarian_33:
(Start: 2 @30384 has 155 MA's), (3, 30423), (6, 30579), (7, 30627), (13, 30675),

Gene: Bask21_34 Start: 30701, Stop: 31039, Start Num: 2
Candidate Starts for Bask21_34:
(Start: 2 @30701 has 155 MA's), (3, 30740), (6, 30896), (7, 30944), (13, 30992),

Gene: Beem_48 Start: 42199, Stop: 42579, Start Num: 2
Candidate Starts for Beem_48:
(1, 42157), (Start: 2 @42199 has 155 MA's), (10, 42454), (12, 42475),

Gene: Bench_36 Start: 31383, Stop: 31721, Start Num: 2
Candidate Starts for Bench_36:
(Start: 2 @31383 has 155 MA's), (3, 31422), (6, 31578), (7, 31626), (13, 31674),

Gene: BigBubba_35 Start: 31286, Stop: 31624, Start Num: 2
Candidate Starts for BigBubba_35:
(Start: 2 @31286 has 155 MA's), (3, 31325), (6, 31481), (7, 31529), (10, 31553), (13, 31577),

Gene: BilboSwaggins_34 Start: 31523, Stop: 31861, Start Num: 2
Candidate Starts for BilboSwaggins_34:
(Start: 2 @31523 has 155 MA's), (3, 31562), (6, 31718), (7, 31766), (10, 31790), (13, 31814),

Gene: Bombitas_44 Start: 41255, Stop: 41641, Start Num: 2
Candidate Starts for Bombitas_44:
(1, 41213), (Start: 2 @41255 has 155 MA's), (8, 41492), (9, 41501), (12, 41534), (14, 41588), (15, 41615),

Gene: Bruin_34 Start: 31543, Stop: 31881, Start Num: 2
Candidate Starts for Bruin_34:
(Start: 2 @31543 has 155 MA's), (3, 31582), (6, 31738), (7, 31786), (13, 31834),

Gene: Buck_33 Start: 31479, Stop: 31817, Start Num: 2
Candidate Starts for Buck_33:
(Start: 2 @31479 has 155 MA's), (3, 31518), (6, 31674), (7, 31722), (10, 31746), (13, 31770),

Gene: BugsBunny_32 Start: 31112, Stop: 31450, Start Num: 2
Candidate Starts for BugsBunny_32:
(Start: 2 @31112 has 155 MA's), (3, 31151), (6, 31307), (7, 31355), (13, 31403),

Gene: Cactus_35 Start: 30734, Stop: 31072, Start Num: 2
Candidate Starts for Cactus_35:
(Start: 2 @30734 has 155 MA's), (3, 30773), (6, 30929), (7, 30977), (13, 31025),

Gene: ChosenOne_34 Start: 30731, Stop: 31069, Start Num: 2
Candidate Starts for ChosenOne_34:
(Start: 2 @30731 has 155 MA's), (3, 30770), (6, 30926), (7, 30974), (13, 31022),

Gene: ChotaBhai_34 Start: 30769, Stop: 31107, Start Num: 2
Candidate Starts for ChotaBhai_34:
(Start: 2 @30769 has 155 MA's), (3, 30808), (6, 30964), (7, 31012), (10, 31036), (13, 31060),

Gene: Cjw1_34 Start: 32283, Stop: 32621, Start Num: 2
Candidate Starts for Cjw1_34:
(Start: 2 @32283 has 155 MA's), (3, 32322), (6, 32478), (7, 32526), (13, 32574),

Gene: Command613_35 Start: 31790, Stop: 32128, Start Num: 2
Candidate Starts for Command613_35:
(Start: 2 @31790 has 155 MA's), (3, 31829), (6, 31985), (7, 32033), (13, 32081),

Gene: Constella_40 Start: 38330, Stop: 38710, Start Num: 2
Candidate Starts for Constella_40:
(Start: 2 @38330 has 155 MA's), (4, 38405), (8, 38564), (9, 38573), (12, 38606),

Gene: Contagion_33 Start: 31027, Stop: 31365, Start Num: 2
Candidate Starts for Contagion_33:
(Start: 2 @31027 has 155 MA's), (3, 31066), (6, 31222), (7, 31270), (13, 31318),

Gene: Cookies_34 Start: 31392, Stop: 31730, Start Num: 2
Candidate Starts for Cookies_34:
(Start: 2 @31392 has 155 MA's), (3, 31431), (6, 31587), (7, 31635), (13, 31683),

Gene: CrystalP_34 Start: 31523, Stop: 31861, Start Num: 2
Candidate Starts for CrystalP_34:
(Start: 2 @31523 has 155 MA's), (3, 31562), (6, 31718), (7, 31766), (10, 31790), (13, 31814),

Gene: Czyszczonek1_35 Start: 31268, Stop: 31606, Start Num: 2
Candidate Starts for Czyszczonek1_35:
(Start: 2 @31268 has 155 MA's), (3, 31307), (6, 31463), (7, 31511), (13, 31559),

Gene: Daikon_33 Start: 31261, Stop: 31599, Start Num: 2
Candidate Starts for Daikon_33:
(Start: 2 @31261 has 155 MA's), (3, 31300), (6, 31456), (7, 31504), (10, 31528), (13, 31552),

Gene: Dallas_50 Start: 41724, Stop: 42104, Start Num: 2
Candidate Starts for Dallas_50:
(1, 41682), (Start: 2 @41724 has 155 MA's), (10, 41979), (12, 42000),

Gene: DmpstrDiver_49 Start: 41729, Stop: 42109, Start Num: 2
Candidate Starts for DmpstrDiver_49:
(1, 41687), (Start: 2 @41729 has 155 MA's), (10, 41984), (12, 42005),

Gene: DoctorDiddles_34 Start: 30685, Stop: 31023, Start Num: 2
Candidate Starts for DoctorDiddles_34:
(Start: 2 @30685 has 155 MA's), (3, 30724), (6, 30880), (7, 30928), (13, 30976),

Gene: Dove_45 Start: 41254, Stop: 41634, Start Num: 2
Candidate Starts for Dove_45:
(1, 41212), (Start: 2 @41254 has 155 MA's), (4, 41329), (10, 41509), (12, 41530),

Gene: DrDrey_35 Start: 32015, Stop: 32353, Start Num: 2
Candidate Starts for DrDrey_35:
(Start: 2 @32015 has 155 MA's), (3, 32054), (6, 32210), (7, 32258), (13, 32306),

Gene: Duke13_51 Start: 42047, Stop: 42427, Start Num: 2
Candidate Starts for Duke13_51:
(1, 42005), (Start: 2 @42047 has 155 MA's), (10, 42302), (12, 42323),

Gene: Dumbo_34 Start: 30990, Stop: 31328, Start Num: 2
Candidate Starts for Dumbo_34:
(Start: 2 @30990 has 155 MA's), (3, 31029), (6, 31185), (7, 31233), (13, 31281),

Gene: Dusk_33 Start: 31175, Stop: 31513, Start Num: 2

Candidate Starts for Dusk_33:

(Start: 2 @31175 has 155 MA's), (3, 31214), (6, 31370), (7, 31418), (13, 31466),

Gene: Easy2Say_36 Start: 32773, Stop: 33111, Start Num: 2

Candidate Starts for Easy2Say_36:

(Start: 2 @32773 has 155 MA's), (3, 32812), (6, 32968), (7, 33016), (13, 33064),

Gene: Ejimix_48 Start: 42984, Stop: 43364, Start Num: 2

Candidate Starts for Ejimix_48:

(1, 42942), (Start: 2 @42984 has 155 MA's), (10, 43239), (12, 43260),

Gene: Elite2014_33 Start: 30730, Stop: 31068, Start Num: 2

Candidate Starts for Elite2014_33:

(Start: 2 @30730 has 155 MA's), (3, 30769), (6, 30925), (7, 30973), (13, 31021),

Gene: Elph10_35 Start: 30993, Stop: 31331, Start Num: 2

Candidate Starts for Elph10_35:

(Start: 2 @30993 has 155 MA's), (3, 31032), (6, 31188), (7, 31236), (13, 31284),

Gene: Emmina_35 Start: 31351, Stop: 31689, Start Num: 2

Candidate Starts for Emmina_35:

(Start: 2 @31351 has 155 MA's), (3, 31390), (6, 31546), (7, 31594), (13, 31642),

Gene: EricMillard_48 Start: 42485, Stop: 42865, Start Num: 2

Candidate Starts for EricMillard_48:

(1, 42443), (Start: 2 @42485 has 155 MA's), (10, 42740), (12, 42761),

Gene: Eureka_34 Start: 31506, Stop: 31844, Start Num: 2

Candidate Starts for Eureka_34:

(Start: 2 @31506 has 155 MA's), (3, 31545), (6, 31701), (7, 31749), (10, 31773), (13, 31797),

Gene: FairyPath_34 Start: 31718, Stop: 32056, Start Num: 2

Candidate Starts for FairyPath_34:

(Start: 2 @31718 has 155 MA's), (3, 31757), (6, 31913), (7, 31961), (13, 32009),

Gene: Filch_35 Start: 31281, Stop: 31619, Start Num: 2

Candidate Starts for Filch_35:

(Start: 2 @31281 has 155 MA's), (3, 31320), (6, 31476), (7, 31524), (13, 31572),

Gene: FireRed_34 Start: 31551, Stop: 31889, Start Num: 2

Candidate Starts for FireRed_34:

(Start: 2 @31551 has 155 MA's), (3, 31590), (6, 31746), (7, 31794), (13, 31842),

Gene: Flypotenuse_32 Start: 31119, Stop: 31457, Start Num: 2

Candidate Starts for Flypotenuse_32:

(Start: 2 @31119 has 155 MA's), (3, 31158), (6, 31314), (7, 31362), (13, 31410),

Gene: Gage_36 Start: 31513, Stop: 31851, Start Num: 2

Candidate Starts for Gage_36:

(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Gaia_33 Start: 30328, Stop: 30708, Start Num: 2

Candidate Starts for Gaia_33:

(Start: 2 @30328 has 155 MA's), (4, 30403), (11, 30589), (12, 30604),

Gene: Gator_32 Start: 31131, Stop: 31469, Start Num: 2

Candidate Starts for Gator_32:

(Start: 2 @31131 has 155 MA's), (3, 31170), (6, 31326), (7, 31374), (13, 31422),

Gene: Gemini_37 Start: 32030, Stop: 32368, Start Num: 2

Candidate Starts for Gemini_37:

(Start: 2 @32030 has 155 MA's), (3, 32069), (6, 32225), (7, 32273), (13, 32321),

Gene: Glexan_32 Start: 31119, Stop: 31457, Start Num: 2

Candidate Starts for Glexan_32:

(Start: 2 @31119 has 155 MA's), (3, 31158), (6, 31314), (7, 31362), (13, 31410),

Gene: Goku_34 Start: 31235, Stop: 31573, Start Num: 2

Candidate Starts for Goku_34:

(Start: 2 @31235 has 155 MA's), (3, 31274), (6, 31430), (7, 31478), (10, 31502), (13, 31526),

Gene: GoldenSpark_36 Start: 31513, Stop: 31851, Start Num: 2

Candidate Starts for GoldenSpark_36:

(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Goldilocks_35 Start: 30933, Stop: 31271, Start Num: 2

Candidate Starts for Goldilocks_35:

(Start: 2 @30933 has 155 MA's), (3, 30972), (6, 31128), (7, 31176), (13, 31224),

Gene: GooberAzure_36 Start: 31513, Stop: 31851, Start Num: 2

Candidate Starts for GooberAzure_36:

(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Halley_48 Start: 42198, Stop: 42578, Start Num: 2

Candidate Starts for Halley_48:

(1, 42156), (Start: 2 @42198 has 155 MA's), (10, 42453), (12, 42474),

Gene: HanKaySha_35 Start: 31265, Stop: 31603, Start Num: 2

Candidate Starts for HanKaySha_35:

(Start: 2 @31265 has 155 MA's), (3, 31304), (6, 31460), (7, 31508), (13, 31556),

Gene: Hannaconda_44 Start: 36677, Stop: 37057, Start Num: 2

Candidate Starts for Hannaconda_44:

(Start: 2 @36677 has 155 MA's), (10, 36932), (12, 36953),

Gene: Harella_33 Start: 31635, Stop: 31973, Start Num: 2

Candidate Starts for Harella_33:

(Start: 2 @31635 has 155 MA's), (3, 31674), (6, 31830), (7, 31878), (13, 31926),

Gene: Henry_35 Start: 31523, Stop: 31861, Start Num: 2

Candidate Starts for Henry_35:

(Start: 2 @31523 has 155 MA's), (3, 31562), (6, 31718), (7, 31766), (13, 31814),

Gene: Highbury_35 Start: 31181, Stop: 31519, Start Num: 2

Candidate Starts for Highbury_35:

(Start: 2 @31181 has 155 MA's), (3, 31220), (6, 31376), (7, 31424), (13, 31472),

Gene: HokkenD_41 Start: 40467, Stop: 40847, Start Num: 2

Candidate Starts for HokkenD_41:

(1, 40425), (Start: 2 @40467 has 155 MA's), (10, 40722), (12, 40743),

Gene: Holt_35 Start: 30800, Stop: 31138, Start Num: 2

Candidate Starts for Holt_35:

(Start: 2 @30800 has 155 MA's), (3, 30839), (6, 30995), (7, 31043), (13, 31091),

Gene: Hoonter_36 Start: 31513, Stop: 31851, Start Num: 2

Candidate Starts for Hoonter_36:

(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Hopey_36 Start: 31800, Stop: 32138, Start Num: 2

Candidate Starts for Hopey_36:

(Start: 2 @31800 has 155 MA's), (3, 31839), (6, 31995), (7, 32043), (13, 32091),

Gene: HufflyPuff_33 Start: 31507, Stop: 31845, Start Num: 2

Candidate Starts for HufflyPuff_33:

(Start: 2 @31507 has 155 MA's), (3, 31546), (6, 31702), (7, 31750), (13, 31798),

Gene: Hughesyang_46 Start: 42127, Stop: 42507, Start Num: 2

Candidate Starts for Hughesyang_46:

(1, 42085), (Start: 2 @42127 has 155 MA's), (10, 42382), (12, 42403),

Gene: IHOP_34 Start: 31700, Stop: 32038, Start Num: 2

Candidate Starts for IHOP_34:

(Start: 2 @31700 has 155 MA's), (3, 31739), (6, 31895), (7, 31943), (13, 31991),

Gene: Icee_33 Start: 31181, Stop: 31519, Start Num: 2

Candidate Starts for Icee_33:

(Start: 2 @31181 has 155 MA's), (3, 31220), (6, 31376), (7, 31424), (13, 31472),

Gene: Inca_33 Start: 30202, Stop: 30540, Start Num: 2

Candidate Starts for Inca_33:

(Start: 2 @30202 has 155 MA's), (3, 30241), (6, 30397), (7, 30445), (13, 30493),

Gene: JeTaime_36 Start: 32324, Stop: 32662, Start Num: 2

Candidate Starts for JeTaime_36:

(Start: 2 @32324 has 155 MA's), (3, 32363), (6, 32519), (7, 32567), (13, 32615),

Gene: JuicyJay_50 Start: 43947, Stop: 44327, Start Num: 2

Candidate Starts for JuicyJay_50:

(1, 43905), (Start: 2 @43947 has 155 MA's), (4, 44022), (8, 44181), (9, 44190), (12, 44223),

Gene: Kalah2_48 Start: 42535, Stop: 42915, Start Num: 2

Candidate Starts for Kalah2_48:

(1, 42493), (Start: 2 @42535 has 155 MA's), (10, 42790), (12, 42811),

Gene: Kanye_36 Start: 32509, Stop: 32847, Start Num: 2

Candidate Starts for Kanye_36:

(Start: 2 @32509 has 155 MA's), (3, 32548), (6, 32704), (7, 32752), (13, 32800),

Gene: KashFlow_41 Start: 36298, Stop: 36678, Start Num: 2

Candidate Starts for KashFlow_41:

(Start: 2 @36298 has 155 MA's), (10, 36553), (12, 36574),

Gene: Kimchi_36 Start: 31516, Stop: 31854, Start Num: 2

Candidate Starts for Kimchi_36:

(Start: 2 @31516 has 155 MA's), (3, 31555), (6, 31711), (7, 31759), (13, 31807),

Gene: Klein_48 Start: 41759, Stop: 42139, Start Num: 2

Candidate Starts for Klein_48:

(1, 41717), (Start: 2 @41759 has 155 MA's), (4, 41834), (10, 42014), (12, 42035),

Gene: Kostya_35 Start: 31524, Stop: 31862, Start Num: 2

Candidate Starts for Kostya_35:

(Start: 2 @31524 has 155 MA's), (3, 31563), (6, 31719), (7, 31767), (10, 31791), (13, 31815),

Gene: Lilac_36 Start: 31020, Stop: 31358, Start Num: 2

Candidate Starts for Lilac_36:

(Start: 2 @31020 has 155 MA's), (3, 31059), (6, 31215), (7, 31263), (13, 31311),

Gene: Lilizi_36 Start: 31228, Stop: 31566, Start Num: 2

Candidate Starts for Lilizi_36:

(Start: 2 @31228 has 155 MA's), (3, 31267), (6, 31423), (7, 31471), (13, 31519),

Gene: Lilpickle_33 Start: 30730, Stop: 31068, Start Num: 2

Candidate Starts for Lilpickle_33:

(Start: 2 @30730 has 155 MA's), (3, 30769), (6, 30925), (7, 30973), (13, 31021),

Gene: LittleE_52 Start: 41996, Stop: 42376, Start Num: 2

Candidate Starts for LittleE_52:

(1, 41954), (Start: 2 @41996 has 155 MA's), (10, 42251), (12, 42272),

Gene: MISSy_33 Start: 31036, Stop: 31374, Start Num: 2

Candidate Starts for MISSy_33:

(Start: 2 @31036 has 155 MA's), (3, 31075), (6, 31231), (7, 31279), (13, 31327),

Gene: MPhalcon_33 Start: 31029, Stop: 31367, Start Num: 2

Candidate Starts for MPhalcon_33:

(Start: 2 @31029 has 155 MA's), (3, 31068), (6, 31224), (7, 31272), (13, 31320),

Gene: MadamMonkfish_34 Start: 30941, Stop: 31279, Start Num: 2

Candidate Starts for MadamMonkfish_34:

(Start: 2 @30941 has 155 MA's), (3, 30980), (6, 31136), (7, 31184), (13, 31232),

Gene: Manda_35 Start: 32008, Stop: 32346, Start Num: 2

Candidate Starts for Manda_35:

(Start: 2 @32008 has 155 MA's), (3, 32047), (6, 32203), (7, 32251), (10, 32275), (13, 32299),

Gene: Marshmallow_34 Start: 31521, Stop: 31859, Start Num: 2

Candidate Starts for Marshmallow_34:

(Start: 2 @31521 has 155 MA's), (3, 31560), (6, 31716), (7, 31764), (13, 31812),

Gene: Maxxinista_35 Start: 30990, Stop: 31328, Start Num: 2

Candidate Starts for Maxxinista_35:

(Start: 2 @30990 has 155 MA's), (3, 31029), (6, 31185), (7, 31233), (13, 31281),

Gene: Mindy_34 Start: 31301, Stop: 31639, Start Num: 2

Candidate Starts for Mindy_34:

(Start: 2 @31301 has 155 MA's), (3, 31340), (6, 31496), (7, 31544), (13, 31592),

Gene: Minerva_54 Start: 43596, Stop: 43976, Start Num: 2

Candidate Starts for Minerva_54:

(1, 43554), (Start: 2 @43596 has 155 MA's), (5, 43746),

Gene: Miniwave_34 Start: 31720, Stop: 32058, Start Num: 2

Candidate Starts for Miniwave_34:

(Start: 2 @31720 has 155 MA's), (3, 31759), (6, 31915), (7, 31963), (13, 32011),

Gene: Misfit_34 Start: 31610, Stop: 31948, Start Num: 2

Candidate Starts for Misfit_34:

(Start: 2 @31610 has 155 MA's), (3, 31649), (6, 31805), (7, 31853), (13, 31901),

Gene: Moldemort_35 Start: 31265, Stop: 31603, Start Num: 2

Candidate Starts for Moldemort_35:

(Start: 2 @31265 has 155 MA's), (3, 31304), (6, 31460), (7, 31508), (13, 31556),

Gene: Mosby_33 Start: 31027, Stop: 31365, Start Num: 2

Candidate Starts for Mosby_33:

(Start: 2 @31027 has 155 MA's), (3, 31066), (6, 31222), (7, 31270), (13, 31318),

Gene: Murica_33 Start: 31507, Stop: 31845, Start Num: 2

Candidate Starts for Murica_33:

(Start: 2 @31507 has 155 MA's), (3, 31546), (6, 31702), (7, 31750), (13, 31798),

Gene: Murphy_35 Start: 31502, Stop: 31840, Start Num: 2

Candidate Starts for Murphy_35:

(Start: 2 @31502 has 155 MA's), (3, 31541), (6, 31697), (7, 31745), (13, 31793),

Gene: Myrale_34 Start: 31386, Stop: 31724, Start Num: 2

Candidate Starts for Myrale_34:

(Start: 2 @31386 has 155 MA's), (3, 31425), (6, 31581), (7, 31629), (13, 31677),

Gene: Nala_34 Start: 31541, Stop: 31879, Start Num: 2

Candidate Starts for Nala_34:

(Start: 2 @31541 has 155 MA's), (3, 31580), (6, 31736), (7, 31784), (13, 31832),

Gene: NelitzaMV_34 Start: 31591, Stop: 31929, Start Num: 2

Candidate Starts for NelitzaMV_34:

(Start: 2 @31591 has 155 MA's), (3, 31630), (6, 31786), (7, 31834), (10, 31858), (13, 31882),

Gene: NihilNomen_47 Start: 42275, Stop: 42655, Start Num: 2

Candidate Starts for NihilNomen_47:

(1, 42233), (Start: 2 @42275 has 155 MA's), (4, 42350), (10, 42530), (12, 42551),

Gene: Nimrod_34 Start: 31765, Stop: 32103, Start Num: 2

Candidate Starts for Nimrod_34:

(Start: 2 @31765 has 155 MA's), (3, 31804), (6, 31960), (7, 32008), (13, 32056),

Gene: NoSleep_35 Start: 31262, Stop: 31600, Start Num: 2

Candidate Starts for NoSleep_35:

(Start: 2 @31262 has 155 MA's), (3, 31301), (6, 31457), (7, 31505), (13, 31553),

Gene: Odette_48 Start: 41508, Stop: 41888, Start Num: 2

Candidate Starts for Odette_48:

(1, 41466), (Start: 2 @41508 has 155 MA's), (10, 41763), (12, 41784),

Gene: Omega_52 Start: 43301, Stop: 43681, Start Num: 2

Candidate Starts for Omega_52:

(Start: 2 @43301 has 155 MA's), (10, 43556), (12, 43577),

Gene: Optimus_53 Start: 43181, Stop: 43561, Start Num: 2

Candidate Starts for Optimus_53:

(1, 43139), (Start: 2 @43181 has 155 MA's), (10, 43436), (12, 43457),

Gene: OrionPax_35 Start: 31268, Stop: 31606, Start Num: 2

Candidate Starts for OrionPax_35:

(Start: 2 @31268 has 155 MA's), (3, 31307), (6, 31463), (7, 31511), (13, 31559),

Gene: Palpatine_34 Start: 31537, Stop: 31875, Start Num: 2

Candidate Starts for Palpatine_34:

(Start: 2 @31537 has 155 MA's), (3, 31576), (6, 31732), (7, 31780), (13, 31828),

Gene: Paperbeatsrock_36 Start: 32503, Stop: 32841, Start Num: 2

Candidate Starts for Paperbeatsrock_36:

(Start: 2 @32503 has 155 MA's), (3, 32542), (6, 32698), (7, 32746), (13, 32794),

Gene: Pat3_33 Start: 30249, Stop: 30587, Start Num: 2

Candidate Starts for Pat3_33:

(Start: 2 @30249 has 155 MA's), (3, 30288), (6, 30444), (7, 30492), (10, 30516), (13, 30540),

Gene: Petra64142_36 Start: 31983, Stop: 32321, Start Num: 2

Candidate Starts for Petra64142_36:

(Start: 2 @31983 has 155 MA's), (3, 32022), (6, 32178), (7, 32226), (10, 32250), (13, 32274),

Gene: Phaja_34 Start: 31699, Stop: 32037, Start Num: 2

Candidate Starts for Phaja_34:

(Start: 2 @31699 has 155 MA's), (3, 31738), (6, 31894), (7, 31942), (13, 31990),

Gene: Pharsalus_35 Start: 32303, Stop: 32641, Start Num: 2

Candidate Starts for Pharsalus_35:

(Start: 2 @32303 has 155 MA's), (3, 32342), (6, 32498), (7, 32546), (13, 32594),

Gene: PhatBacter_34 Start: 31551, Stop: 31889, Start Num: 2

Candidate Starts for PhatBacter_34:

(Start: 2 @31551 has 155 MA's), (3, 31590), (6, 31746), (7, 31794), (13, 31842),

Gene: Phaux_33 Start: 31549, Stop: 31887, Start Num: 2

Candidate Starts for Phaux_33:

(Start: 2 @31549 has 155 MA's), (3, 31588), (6, 31744), (7, 31792), (13, 31840),

Gene: Phoebus_47 Start: 42485, Stop: 42865, Start Num: 2
Candidate Starts for Phoebus_47:
(1, 42443), (Start: 2 @42485 has 155 MA's), (10, 42740), (12, 42761),

Gene: Phrux_34 Start: 31264, Stop: 31602, Start Num: 2
Candidate Starts for Phrux_34:
(Start: 2 @31264 has 155 MA's), (3, 31303), (6, 31459), (7, 31507), (13, 31555),

Gene: Policronamos_35 Start: 31549, Stop: 31887, Start Num: 2
Candidate Starts for Policronamos_35:
(Start: 2 @31549 has 155 MA's), (3, 31588), (6, 31744), (7, 31792), (13, 31840),

Gene: Porky_34 Start: 31360, Stop: 31698, Start Num: 2
Candidate Starts for Porky_34:
(Start: 2 @31360 has 155 MA's), (3, 31399), (6, 31555), (7, 31603), (13, 31651),

Gene: Pound_49 Start: 43506, Stop: 43892, Start Num: 2
Candidate Starts for Pound_49:
(1, 43464), (Start: 2 @43506 has 155 MA's), (8, 43743), (9, 43752), (12, 43785), (14, 43839), (15, 43866),

Gene: Pumpkin_36 Start: 31600, Stop: 31938, Start Num: 2
Candidate Starts for Pumpkin_36:
(Start: 2 @31600 has 155 MA's), (3, 31639), (6, 31795), (7, 31843), (13, 31891),

Gene: Quallification_35 Start: 31729, Stop: 32067, Start Num: 2
Candidate Starts for Quallification_35:
(Start: 2 @31729 has 155 MA's), (3, 31768), (6, 31924), (7, 31972), (13, 32020),

Gene: Rakim_35 Start: 31629, Stop: 31967, Start Num: 2
Candidate Starts for Rakim_35:
(Start: 2 @31629 has 155 MA's), (3, 31668), (6, 31824), (7, 31872), (13, 31920),

Gene: Redno2_46 Start: 39240, Stop: 39620, Start Num: 2
Candidate Starts for Redno2_46:
(1, 39198), (Start: 2 @39240 has 155 MA's), (10, 39495), (12, 39516),

Gene: Rimmer_33 Start: 31089, Stop: 31427, Start Num: 2
Candidate Starts for Rimmer_33:
(Start: 2 @31089 has 155 MA's), (3, 31128), (6, 31284), (7, 31332), (13, 31380),

Gene: RiverMonster_34 Start: 31278, Stop: 31616, Start Num: 2
Candidate Starts for RiverMonster_34:
(Start: 2 @31278 has 155 MA's), (3, 31317), (6, 31473), (7, 31521), (13, 31569),

Gene: Saints25_35 Start: 31181, Stop: 31519, Start Num: 2
Candidate Starts for Saints25_35:
(Start: 2 @31181 has 155 MA's), (3, 31220), (6, 31376), (7, 31424), (13, 31472),

Gene: Sassay_33 Start: 31027, Stop: 31365, Start Num: 2
Candidate Starts for Sassay_33:
(Start: 2 @31027 has 155 MA's), (3, 31066), (6, 31222), (7, 31270), (13, 31318),

Gene: Schatzie_45 Start: 41256, Stop: 41636, Start Num: 2
Candidate Starts for Schatzie_45:
(1, 41214), (Start: 2 @41256 has 155 MA's), (10, 41511), (12, 41532),

Gene: ShamWow_34 Start: 31523, Stop: 31861, Start Num: 2
Candidate Starts for ShamWow_34:
(Start: 2 @31523 has 155 MA's), (3, 31562), (6, 31718), (7, 31766), (10, 31790), (13, 31814),

Gene: ShereKhan_36 Start: 32506, Stop: 32844, Start Num: 2
Candidate Starts for ShereKhan_36:
(Start: 2 @32506 has 155 MA's), (3, 32545), (6, 32701), (7, 32749), (13, 32797),

Gene: Simpliphy_35 Start: 31268, Stop: 31606, Start Num: 2
Candidate Starts for Simpliphy_35:
(Start: 2 @31268 has 155 MA's), (3, 31307), (6, 31463), (7, 31511), (13, 31559),

Gene: SirDuracell_33 Start: 30188, Stop: 30526, Start Num: 2
Candidate Starts for SirDuracell_33:
(Start: 2 @30188 has 155 MA's), (3, 30227), (6, 30383), (7, 30431), (13, 30479),

Gene: SophKB_34 Start: 31522, Stop: 31860, Start Num: 2
Candidate Starts for SophKB_34:
(Start: 2 @31522 has 155 MA's), (3, 31561), (6, 31717), (7, 31765), (13, 31813),

Gene: Sotrice96_34 Start: 31477, Stop: 31815, Start Num: 2
Candidate Starts for Sotrice96_34:
(Start: 2 @31477 has 155 MA's), (3, 31516), (6, 31672), (7, 31720), (13, 31768),

Gene: Stank_37 Start: 32029, Stop: 32367, Start Num: 2
Candidate Starts for Stank_37:
(Start: 2 @32029 has 155 MA's), (3, 32068), (6, 32224), (7, 32272), (13, 32320),

Gene: Stark_35 Start: 31281, Stop: 31619, Start Num: 2
Candidate Starts for Stark_35:
(Start: 2 @31281 has 155 MA's), (3, 31320), (6, 31476), (7, 31524), (13, 31572),

Gene: StellaBean_34 Start: 31522, Stop: 31860, Start Num: 2
Candidate Starts for StellaBean_34:
(Start: 2 @31522 has 155 MA's), (3, 31561), (6, 31717), (7, 31765), (13, 31813),

Gene: StolenFromERC_36 Start: 31513, Stop: 31851, Start Num: 2
Candidate Starts for StolenFromERC_36:
(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: TBrady12_36 Start: 31513, Stop: 31851, Start Num: 2
Candidate Starts for TBrady12_36:
(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: Tarkin_36 Start: 32512, Stop: 32850, Start Num: 2
Candidate Starts for Tarkin_36:
(Start: 2 @32512 has 155 MA's), (3, 32551), (6, 32707), (7, 32755), (13, 32803),

Gene: TeardropMSU_33 Start: 31423, Stop: 31761, Start Num: 2
Candidate Starts for TeardropMSU_33:
(Start: 2 @31423 has 155 MA's), (3, 31462), (6, 31618), (7, 31666), (13, 31714),

Gene: Teaspoon_35 Start: 31476, Stop: 31814, Start Num: 2
Candidate Starts for Teaspoon_35:
(Start: 2 @31476 has 155 MA's), (3, 31515), (6, 31671), (7, 31719), (13, 31767),

Gene: Terminus_34 Start: 31610, Stop: 31948, Start Num: 2
Candidate Starts for Terminus_34:
(Start: 2 @31610 has 155 MA's), (3, 31649), (6, 31805), (7, 31853), (13, 31901),

Gene: ThreeRngTarjay_46 Start: 42335, Stop: 42715, Start Num: 2
Candidate Starts for ThreeRngTarjay_46:
(1, 42293), (Start: 2 @42335 has 155 MA's), (10, 42590), (12, 42611),

Gene: Thresher_35 Start: 32277, Stop: 32615, Start Num: 2
Candidate Starts for Thresher_35:
(Start: 2 @32277 has 155 MA's), (3, 32316), (6, 32472), (7, 32520), (13, 32568),

Gene: Tomaszewski_33 Start: 31120, Stop: 31458, Start Num: 2
Candidate Starts for Tomaszewski_33:
(Start: 2 @31120 has 155 MA's), (3, 31159), (6, 31315), (7, 31363), (13, 31411),

Gene: Toto_34 Start: 31523, Stop: 31861, Start Num: 2
Candidate Starts for Toto_34:
(Start: 2 @31523 has 155 MA's), (3, 31562), (6, 31718), (7, 31766), (10, 31790), (13, 31814),

Gene: Traaww1_32 Start: 31161, Stop: 31499, Start Num: 2
Candidate Starts for Traaww1_32:
(Start: 2 @31161 has 155 MA's), (3, 31200), (6, 31356), (7, 31404), (13, 31452),

Gene: Tuco_35 Start: 32031, Stop: 32369, Start Num: 2
Candidate Starts for Tuco_35:
(Start: 2 @32031 has 155 MA's), (3, 32070), (6, 32226), (7, 32274), (13, 32322),

Gene: Ukulele_34 Start: 31281, Stop: 31619, Start Num: 2
Candidate Starts for Ukulele_34:
(Start: 2 @31281 has 155 MA's), (3, 31320), (6, 31476), (7, 31524), (13, 31572),

Gene: Wanda_54 Start: 42073, Stop: 42453, Start Num: 2
Candidate Starts for Wanda_54:
(1, 42031), (Start: 2 @42073 has 155 MA's), (10, 42328), (12, 42349),

Gene: Wiggin_37 Start: 32027, Stop: 32365, Start Num: 2
Candidate Starts for Wiggin_37:
(Start: 2 @32027 has 155 MA's), (3, 32066), (6, 32222), (7, 32270), (13, 32318),

Gene: Willez_33 Start: 31027, Stop: 31365, Start Num: 2
Candidate Starts for Willez_33:
(Start: 2 @31027 has 155 MA's), (3, 31066), (6, 31222), (7, 31270), (13, 31318),

Gene: Xandras_36 Start: 31513, Stop: 31851, Start Num: 2

Candidate Starts for Xandras_36:

(Start: 2 @31513 has 155 MA's), (3, 31552), (6, 31708), (7, 31756), (13, 31804),

Gene: YassJohnny_35 Start: 32038, Stop: 32376, Start Num: 2

Candidate Starts for YassJohnny_35:

(Start: 2 @32038 has 155 MA's), (3, 32077), (6, 32233), (7, 32281), (13, 32329),

Gene: Yeet_46 Start: 41494, Stop: 41874, Start Num: 2

Candidate Starts for Yeet_46:

(1, 41452), (Start: 2 @41494 has 155 MA's), (10, 41749), (12, 41770),

Gene: Youngblood_34 Start: 31683, Stop: 32021, Start Num: 2

Candidate Starts for Youngblood_34:

(Start: 2 @31683 has 155 MA's), (3, 31722), (6, 31878), (7, 31926), (10, 31950), (13, 31974),

Gene: Zelink_49 Start: 43279, Stop: 43659, Start Num: 2

Candidate Starts for Zelink_49:

(1, 43237), (Start: 2 @43279 has 155 MA's), (10, 43534), (12, 43555),

Gene: xkcd_35 Start: 31692, Stop: 32030, Start Num: 2

Candidate Starts for xkcd_35:

(Start: 2 @31692 has 155 MA's), (3, 31731), (6, 31887), (7, 31935), (13, 31983),