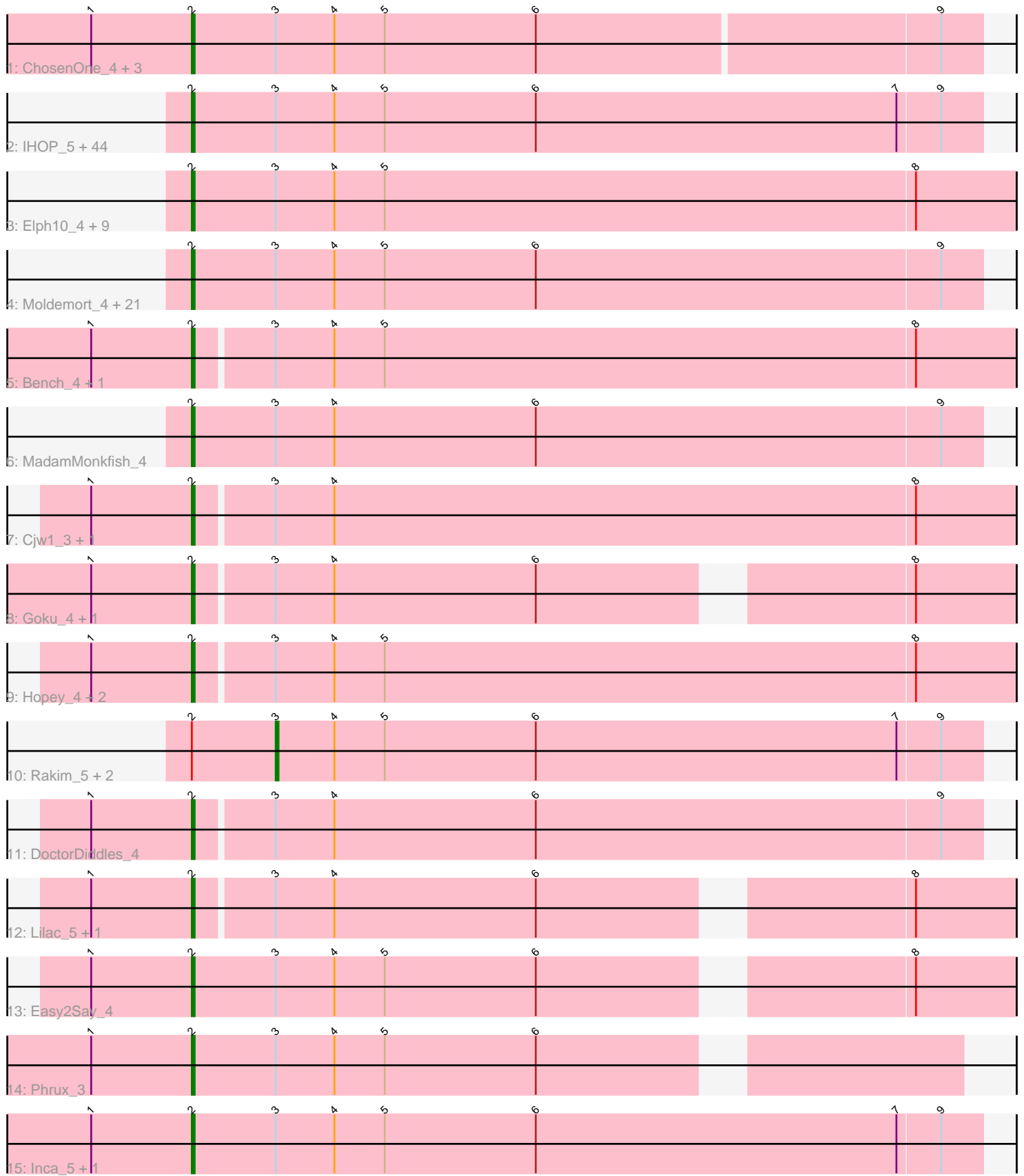


Pham 85283



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 85283 Report

This analysis was run 04/28/24 on database version 559.

Pham number 85283 has 101 members, 8 are drafts.

Phages represented in each track:

- Track 1 : ChosenOne_4, NoSleep_4, Elite2014_4, Lilpickle_4
- Track 2 : IHOP_5, Glexan_4, Marshmallow_5, Tuco_5, Rimmer_5, Wiggin_5, Buck_5, Flypotenuse_4, Pharsalus_5, SirDuracell_5, Henry_5, Adnama_5, Murphy_4, Gage_5, Phaja_5, BigBubba_5, TBrady12_5, StellaBean_5, BadStone_4, ChotaBhai_5, ABCat_4, Tarkin_5, GooberAzure_5, Goldilocks_5, Nimrod_5, Bask21_5, Gemini_5, ShamWow_5, Kimchi_5, Gator_4, CrystalP_5, Petra64142_5, Argent26_5, Cookies_5, Harella_4, Teaspoon_5, Amao_5, Pat3_5, Dusk_5, Lilizi_5, GoldenSpark_5, Xandras_5, BilboSwaggins_5, TeardropMSU_4, YassJohnny_5
- Track 3 : Elph10_4, Thresher_4, Maxxinista_4, Balomoji_4, Dumbo_3, Pumpkin_4, JeTaime_5, Sotrice96_4, Ukulele_3, Daikon_3
- Track 4 : Moldemort_4, Paperbeatsrock_5, Quallification_5, Barbarian_4, Cactus_5, Kanye_5, StolenFromERC_5, Czyszczonek_4, Simpliphy_4, Icee_5, Stank_5, Saints25_4, HanKaySha_4, Traaww1_4, Asriel_4, Highbury_4, OrionPax_4, DrDrey_5, Miniwave_5, ShereKhan_5, Hoonter_5, AmericanBeauty_5
- Track 5 : Bench_4, RiverMonster_3
- Track 6 : MadamMonkfish_4
- Track 7 : Cjw1_3, Holt_4
- Track 8 : Goku_4, Eureka_3
- Track 9 : Hopey_4, 244_4, Filch_4
- Track 10 : Rakim_5, Kostya_5, Toto_5
- Track 11 : DoctorDiddles_4
- Track 12 : Lilac_5, Stark_4
- Track 13 : Easy2Say_4
- Track 14 : Phrux_3
- Track 15 : Inca_5, SophKB_5

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 90 of the 93 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_4, ABCat_4, Adnama_5, Amao_5, AmericanBeauty_5, Argent26_5, Asriel_4, BadStone_4, Balomoji_4, Barbarian_4, Bask21_5, Bench_4, BigBubba_5,

BilboSwaggins_5, Buck_5, Cactus_5, ChosenOne_4, ChotaBhai_5, Cjw1_3, Cookies_5, CrystalP_5, Czyszczone1_4, Daikon_3, DoctorDiddles_4, DrDrey_5, Dumbo_3, Dusk_5, Easy2Say_4, Elite2014_4, Elph10_4, Eureka_3, Filch_4, Flypotenuse_4, Gage_5, Gator_4, Gemini_5, Glexan_4, Goku_4, GoldenSpark_5, Goldilocks_5, GooberAzure_5, HanKaySha_4, Harella_4, Henry_5, Highbury_4, Holt_4, Hoonter_5, Hopey_4, IHOP_5, Icee_5, Inca_5, JeTaime_5, Kanye_5, Kimchi_5, Lilac_5, Lilizi_5, Lilpickle_4, MadamMonkfish_4, Marshmallow_5, Maxxinista_4, Miniwave_5, Moldemort_4, Murphy_4, Nimrod_5, NoSleep_4, OrionPax_4, Paperbeatsrock_5, Pat3_5, Petra64142_5, Phaja_5, Pharsalus_5, Phrux_3, Pumpkin_4, Qualification_5, Rimmer_5, RiverMonster_3, Saints25_4, ShamWow_5, ShereKhan_5, Simpliphy_4, SirDuracell_5, SophKB_5, Sotrice96_4, Stank_5, Stark_4, StellaBean_5, StolenFromERC_5, TBrady12_5, Tarkin_5, TeardropMSU_4, Teaspoon_5, Thresher_4, Traaww1_4, Tuco_5, Ukulele_3, Wiggin_5, Xandras_5, YassJohnny_5,

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

- Kostya_5, Rakim_5, Toto_5,

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

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Summary by start number:

Start 2:

- Found in 101 of 101 (100.0%) of genes in pham
- Manual Annotations of this start: 90 of 93
- Called 97.0% of time when present
- Phage (with cluster) where this start called: 244_4 (E), ABCat_4 (E), Adnama_5 (E), Amao_5 (E), AmericanBeauty_5 (E), Argent26_5 (E), Asriel_4 (E), BadStone_4 (E), Balomoji_4 (E), Barbarian_4 (E), Bask21_5 (E), Bench_4 (E), BigBubba_5 (E), BilboSwaggins_5 (E), Buck_5 (E), Cactus_5 (E), ChosenOne_4 (E), ChotaBhai_5 (E), Cjw1_3 (E), Cookies_5 (E), CrystalP_5 (E), Czyszczone1_4 (E), Daikon_3 (E), DoctorDiddles_4 (E), DrDrey_5 (E), Dumbo_3 (E), Dusk_5 (E), Easy2Say_4 (E), Elite2014_4 (E), Elph10_4 (E), Eureka_3 (E), Filch_4 (E), Flypotenuse_4 (E), Gage_5 (E), Gator_4 (E), Gemini_5 (E), Glexan_4 (E), Goku_4 (E), GoldenSpark_5 (E), Goldilocks_5 (E), GooberAzure_5 (E), HanKaySha_4 (E), Harella_4 (E), Henry_5 (E), Highbury_4 (E), Holt_4 (E), Hoonter_5 (E), Hopey_4 (E), IHOP_5 (E), Icee_5 (E), Inca_5 (E), JeTaime_5 (E), Kanye_5 (E), Kimchi_5 (E), Lilac_5 (E), Lilizi_5 (E), Lilpickle_4 (E), MadamMonkfish_4 (E), Marshmallow_5 (E), Maxxinista_4 (E), Miniwave_5 (E), Moldemort_4 (E), Murphy_4 (E), Nimrod_5 (E), NoSleep_4 (E), OrionPax_4 (E), Paperbeatsrock_5 (E), Pat3_5 (E), Petra64142_5 (E), Phaja_5 (E), Pharsalus_5 (E), Phrux_3 (E), Pumpkin_4 (E), Qualification_5 (E), Rimmer_5 (E), RiverMonster_3 (E), Saints25_4 (E), ShamWow_5 (E), ShereKhan_5 (E), Simpliphy_4 (E), SirDuracell_5 (E), SophKB_5 (E), Sotrice96_4 (E), Stank_5 (E), Stark_4 (E), StellaBean_5 (E), StolenFromERC_5 (E), TBrady12_5 (E), Tarkin_5 (E), TeardropMSU_4 (E), Teaspoon_5 (E), Thresher_4 (E), Traaww1_4 (E), Tuco_5 (E), Ukulele_3 (E), Wiggin_5 (E), Xandras_5 (E), YassJohnny_5 (E),

Start 3:

- Found in 101 of 101 (100.0%) of genes in pham
- Manual Annotations of this start: 3 of 93
- Called 3.0% of time when present
- Phage (with cluster) where this start called: Kostya_5 (E), Rakim_5 (E), Toto_5 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 2 was manually annotated 90 times for cluster E.
- Start number 3 was manually annotated 3 times for cluster E.

Gene Information:

Gene: 244_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for 244_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: ABCat_4 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for ABCat_4:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Adnama_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Adnama_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Amao_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Amao_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: AmericanBeauty_5 Start: 783, Stop: 1061, Start Num: 2

Candidate Starts for AmericanBeauty_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @810 has 3 MA's), (4, 831), (5, 849), (6, 903), (9, 1047),

Gene: Argent26_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Argent26_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Asriel_4 Start: 769, Stop: 1050, Start Num: 2

Candidate Starts for Asriel_4:

(Start: 2 @769 has 90 MA's), (Start: 3 @799 has 3 MA's), (4, 820), (5, 838), (6, 892), (9, 1036),

Gene: BadStone_4 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for BadStone_4:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Balomoji_4 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Balomoji_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Barbarian_4 Start: 769, Stop: 1050, Start Num: 2

Candidate Starts for Barbarian_4:

(Start: 2 @769 has 90 MA's), (Start: 3 @799 has 3 MA's), (4, 820), (5, 838), (6, 892), (9, 1036),

Gene: Bask21_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Bask21_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Bench_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Bench_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: BigBubba_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for BigBubba_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: BilboSwaggins_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for BilboSwaggins_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Buck_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Buck_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Cactus_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Cactus_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: ChosenOne_4 Start: 739, Stop: 1017, Start Num: 2

Candidate Starts for ChosenOne_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1003),

Gene: ChotaBhai_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for ChotaBhai_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Cjw1_3 Start: 748, Stop: 1038, Start Num: 2

Candidate Starts for Cjw1_3:

(1, 712), (Start: 2 @748 has 90 MA's), (Start: 3 @775 has 3 MA's), (4, 796), (8, 1003),

Gene: Cookies_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Cookies_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: CrystalP_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for CrystalP_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Czyszczone1_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Czyszczone1_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1006),

Gene: Daikon_3 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Daikon_3:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: DoctorDiddles_4 Start: 739, Stop: 1017, Start Num: 2

Candidate Starts for DoctorDiddles_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (6, 859), (9, 1003),

Gene: DrDrey_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for DrDrey_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Dumbo_3 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Dumbo_3:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Dusk_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Dusk_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Easy2Say_4 Start: 739, Stop: 1014, Start Num: 2

Candidate Starts for Easy2Say_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (8, 979),

Gene: Elite2014_4 Start: 739, Stop: 1017, Start Num: 2

Candidate Starts for Elite2014_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1003),

Gene: Elph10_4 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Elph10_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Eureka_3 Start: 628, Stop: 900, Start Num: 2

Candidate Starts for Eureka_3:

(1, 592), (Start: 2 @628 has 90 MA's), (Start: 3 @655 has 3 MA's), (4, 676), (6, 748), (8, 865),

Gene: Filch_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Filch_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: Flypotenuse_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Flypotenuse_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (7, 991), (9, 1006),

Gene: Gage_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Gage_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Gator_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Gator_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (7, 991), (9, 1006),

Gene: Gemini_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Gemini_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Glexan_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Glexan_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (7, 991), (9, 1006),

Gene: Goku_4 Start: 628, Stop: 900, Start Num: 2

Candidate Starts for Goku_4:

(1, 592), (Start: 2 @628 has 90 MA's), (Start: 3 @655 has 3 MA's), (4, 676), (6, 748), (8, 865),

Gene: GoldenSpark_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for GoldenSpark_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Goldilocks_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Goldilocks_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: GooberAzure_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for GooberAzure_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: HanKaySha_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for HanKaySha_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1006),

Gene: Harella_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Harella_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (7, 991), (9, 1006),

Gene: Henry_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Henry_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Highbury_4 Start: 748, Stop: 1029, Start Num: 2

Candidate Starts for Highbury_4:

(Start: 2 @748 has 90 MA's), (Start: 3 @778 has 3 MA's), (4, 799), (5, 817), (6, 871), (9, 1015),

Gene: Holt_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Holt_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (8, 994),

Gene: Hoonter_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Hoonter_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Hopey_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Hopey_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: IHOP_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for IHOP_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Icee_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Icee_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Inca_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Inca_5:

(1, 747), (Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: JeTaime_5 Start: 783, Stop: 1076, Start Num: 2

Candidate Starts for JeTaime_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (8, 1041),

Gene: Kanye_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Kanye_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Kimchi_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Kimchi_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Kostya_5 Start: 813, Stop: 1064, Start Num: 3

Candidate Starts for Kostya_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Lilac_5 Start: 783, Stop: 1055, Start Num: 2

Candidate Starts for Lilac_5:

(1, 747), (Start: 2 @783 has 90 MA's), (Start: 3 @810 has 3 MA's), (4, 831), (6, 903), (8, 1020),

Gene: Lilizi_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Lilizi_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Lilpickle_4 Start: 739, Stop: 1017, Start Num: 2

Candidate Starts for Lilpickle_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1003),

Gene: MadamMonkfish_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for MadamMonkfish_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (6, 862), (9, 1006),

Gene: Marshmallow_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Marshmallow_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Maxxinista_4 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Maxxinista_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Miniwave_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Miniwave_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Moldemort_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Moldemort_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1006),

Gene: Murphy_4 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Murphy_4:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Nimrod_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Nimrod_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: NoSleep_4 Start: 739, Stop: 1017, Start Num: 2

Candidate Starts for NoSleep_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1003),

Gene: OrionPax_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for OrionPax_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1006),

Gene: Paperbeatsrock_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Paperbeatsrock_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Pat3_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Pat3_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Petra64142_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Petra64142_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Phaja_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Phaja_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Pharsalus_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Pharsalus_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Phrux_3 Start: 739, Stop: 996, Start Num: 2

Candidate Starts for Phrux_3:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862),

Gene: Pumpkin_4 Start: 740, Stop: 1033, Start Num: 2

Candidate Starts for Pumpkin_4:

(Start: 2 @740 has 90 MA's), (Start: 3 @770 has 3 MA's), (4, 791), (5, 809), (8, 998),

Gene: Quallification_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Quallification_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Rakim_5 Start: 813, Stop: 1064, Start Num: 3

Candidate Starts for Rakim_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Rimmer_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Rimmer_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: RiverMonster_3 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for RiverMonster_3:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: Saints25_4 Start: 748, Stop: 1029, Start Num: 2

Candidate Starts for Saints25_4:

(Start: 2 @748 has 90 MA's), (Start: 3 @778 has 3 MA's), (4, 799), (5, 817), (6, 871), (9, 1015),

Gene: ShamWow_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for ShamWow_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: ShereKhan_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for ShereKhan_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Simpliphy_4 Start: 739, Stop: 1020, Start Num: 2

Candidate Starts for Simpliphy_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (6, 862), (9, 1006),

Gene: SirDuracell_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for SirDuracell_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: SophKB_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for SophKB_5:

(1, 747), (Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Sotrice96_4 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Sotrice96_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Stank_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Stank_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: Stark_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Stark_4:

(1, 703), (Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (6, 859), (8, 994),

Gene: StellaBean_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for StellaBean_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: StolenFromERC_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for StolenFromERC_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (9, 1050),

Gene: TBrady12_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for TBrady12_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Tarkin_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Tarkin_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: TeardropMSU_4 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for TeardropMSU_4:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Teaspoon_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Teaspoon_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Thresher_4 Start: 739, Stop: 1029, Start Num: 2

Candidate Starts for Thresher_4:

(Start: 2 @739 has 90 MA's), (Start: 3 @766 has 3 MA's), (4, 787), (5, 805), (8, 994),

Gene: Toto_5 Start: 813, Stop: 1064, Start Num: 3

Candidate Starts for Toto_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Traaww1_4 Start: 769, Stop: 1050, Start Num: 2

Candidate Starts for Traaww1_4:

(Start: 2 @769 has 90 MA's), (Start: 3 @799 has 3 MA's), (4, 820), (5, 838), (6, 892), (9, 1036),

Gene: Tuco_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Tuco_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Ukulele_3 Start: 739, Stop: 1032, Start Num: 2

Candidate Starts for Ukulele_3:

(Start: 2 @739 has 90 MA's), (Start: 3 @769 has 3 MA's), (4, 790), (5, 808), (8, 997),

Gene: Wiggin_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Wiggin_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: Xandras_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for Xandras_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),

Gene: YassJohnny_5 Start: 783, Stop: 1064, Start Num: 2

Candidate Starts for YassJohnny_5:

(Start: 2 @783 has 90 MA's), (Start: 3 @813 has 3 MA's), (4, 834), (5, 852), (6, 906), (7, 1035), (9, 1050),