



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 822 Report

This analysis was run 07/09/24 on database version 566.

Pham number 822 has 130 members, 8 are drafts.

Phages represented in each track:

- Track 1 : TeardropMSU_58, StolenFromERC_64, Rimmer_62, OrionPax_60, Holt_66, Kanye_58, Qualification_62, Phaux_63, Amao_61, Highbury_62, MadamMonkfish_62, Tuco_63, Pumpkin_64, BaboJay_58, StellaBean_60, BilboSwaggins_60, ABCat_59, Pat3_60, Nala_63, Stank_65, Marshmallow_60, SirDuracell_60, Mindy_61, Adnama_66, Hoonter_64, Sassay_56, Dumbo_61, RiverMonster_62, Manda_62, Sotrice96_63, BigBubba_63, Inca_59, TBrady12_65, GoldenSpark_65, Lilac_63, ShamWow_62, Youngblood_64, Easy2Say_63, AmericanBeauty_68, MPhalcon_62, Teaspoon_63, Elph10_61, Buck_62, Phrux_59, Porky_61, Kostya_62, Toto_60, Goku_60, Barbarian_62, Bench_64, Cactus_64, Contagion_58, IHOP_60, Eureka_60, Glexan_60, JeTaime_62, Willez_56, PhatBacter_65, 244_62, CrystalP_61, Phaja_60, Flypotenuse_57, Lilizi_62, Elite2014_61, Thresher_64, Hopey_62, Misfit_63, GooberAzure_64, Traaww1_58, Maxxinista_64, NoSleep_63, BadStone_59, DrDrey_61, Harella_61, ChosenOne_62, Icee_62, Goldilocks_64, Terminus_64, Murica_64, Gage_64, ChotaBhai_61, Murphy_63, Nimrod_63, Bruin_58, Balomoji_61, Gator_60, Asriel_62, Command613_63, Gemini_66, Czyszczonek_63, Palpatine_64, Henry_60, Stark_62, DoctorDiddles_61, Policronamos_66, Bask21_62, Cookies_59, Dusk_59, Pharsalus_59, Cjw1_61, BugsBunny_62, HanKaySha_61, Miniwave_57, HufflyPuff_64, Rakim_63, Moldemort_65, Emmina_62, Tarkin_61, Paperbeatsrock_61, Tomaszewski_57, Simpliphy_61, Kimchi_65, Mosby_58, Saints25_62, Ukulele_58, YassJohnny_58, Petra64142_66, Lilpickle_61, FireRed_65, Argent26_65, Myrale_61, Wiggin_64, NelitzaMV_59, xkcd_65, SophKB_59, Daikon_63, Xandras_61, Filch_63, ShereKhan_60, MISSy_62

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

The start number called the most often in the published annotations is 1, it was called in 122 of the 122 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_62, ABCat_59, Adnama_66, Amao_61, AmericanBeauty_68, Argent26_65, Asriel_62, BaboJay_58, BadStone_59, Balomoji_61, Barbarian_62, Bask21_62, Bench_64, BigBubba_63, BilboSwaggins_60, Bruin_58, Buck_62, BugsBunny_62, Cactus_64, ChosenOne_62, ChotaBhai_61, Cjw1_61, Command613_63,

Contagion_58, Cookies_59, CrystalP_61, Czyszczone1_63, Daikon_63, DoctorDiddles_61, DrDrey_61, Dumbo_61, Dusk_59, Easy2Say_63, Elite2014_61, Elph10_61, Emmina_62, Eureka_60, Filch_63, FireRed_65, Flypotenuse_57, Gage_64, Gator_60, Gemini_66, Glexan_60, Goku_60, GoldenSpark_65, Goldilocks_64, GooberAzure_64, HanKaySha_61, Harella_61, Henry_60, Highbury_62, Holt_66, Hoonter_64, Hopey_62, HufflyPuff_64, IHOP_60, Icee_62, Inca_59, JeTaime_62, Kanye_58, Kimchi_65, Kostya_62, Lilac_63, Lilizi_62, Lilpickle_61, MISSy_62, MPhalcon_62, MadamMonkfish_62, Manda_62, Marshmallow_60, Maxxinista_64, Mindy_61, Miniwave_57, Misfit_63, Moldemort_65, Mosby_58, Murica_64, Murphy_63, Myrale_61, Nala_63, NelitzaMV_59, Nimrod_63, NoSleep_63, OrionPax_60, Palpatine_64, Paperbeatsrock_61, Pat3_60, Petra64142_66, Phaja_60, Pharsalus_59, PhatBacter_65, Phaux_63, Phrux_59, Policronamos_66, Porky_61, Pumpkin_64, Qualification_62, Rakim_63, Rimmer_62, RiverMonster_62, Saints25_62, Sassay_56, ShamWow_62, ShereKhan_60, Simpliphy_61, SirDuracell_60, SophKB_59, Sotrice96_63, Stank_65, Stark_62, StellaBean_60, StolenFromERC_64, TBrady12_65, Tarkin_61, TeardropMSU_58, Teaspoon_63, Terminus_64, Thresher_64, Tomaszewski_57, Toto_60, Traaww1_58, Tuco_63, Ukulele_58, Wiggin_64, Willez_56, Xandras_61, YassJohnny_58, Youngblood_64, xkcd_65,

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 1:

- Found in 130 of 130 (100.0%) of genes in pham
- Manual Annotations of this start: 122 of 122
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_62 (E), ABCat_59 (E), Adnama_66 (E), Amao_61 (E), AmericanBeauty_68 (E), Argent26_65 (E), Asriel_62 (E), BaboJay_58 (E), BadStone_59 (E), Balomoji_61 (E), Barbarian_62 (E), Bask21_62 (E), Bench_64 (E), BigBubba_63 (E), BilboSwaggins_60 (E), Bruin_58 (E), Buck_62 (E), BugsBunny_62 (E), Cactus_64 (E), ChosenOne_62 (E), ChotaBhai_61 (E), Cjw1_61 (E), Command613_63 (E), Contagion_58 (E), Cookies_59 (E), CrystalP_61 (E), Czyszczone1_63 (E), Daikon_63 (E), DoctorDiddles_61 (E), DrDrey_61 (E), Dumbo_61 (E), Dusk_59 (E), Easy2Say_63 (E), Elite2014_61 (E), Elph10_61 (E), Emmina_62 (E), Eureka_60 (E), Filch_63 (E), FireRed_65 (E), Flypotenuse_57 (E), Gage_64 (E), Gator_60 (E), Gemini_66 (E), Glexan_60 (E), Goku_60 (E), GoldenSpark_65 (E), Goldilocks_64 (E), GooberAzure_64 (E), HanKaySha_61 (E), Harella_61 (E), Henry_60 (E), Highbury_62 (E), Holt_66 (E), Hoonter_64 (E), Hopey_62 (E), HufflyPuff_64 (E), IHOP_60 (E), Icee_62 (E), Inca_59 (E), JeTaime_62 (E), Kanye_58 (E), Kimchi_65 (E), Kostya_62 (E), Lilac_63 (E), Lilizi_62 (E), Lilpickle_61 (E), MISSy_62 (E), MPhalcon_62 (E), MadamMonkfish_62 (E), Manda_62 (E), Marshmallow_60 (E), Maxxinista_64 (E), Mindy_61 (E), Miniwave_57 (E), Misfit_63 (E), Moldemort_65 (E), Mosby_58 (E), Murica_64 (E), Murphy_63 (E), Myrale_61 (E), Nala_63 (E), NelitzaMV_59 (E), Nimrod_63 (E), NoSleep_63 (E), OrionPax_60 (E), Palpatine_64 (E), Paperbeatsrock_61 (E), Pat3_60 (E), Petra64142_66 (E), Phaja_60 (E), Pharsalus_59 (E), PhatBacter_65 (E), Phaux_63 (E), Phrux_59 (E), Policronamos_66 (E), Porky_61 (E), Pumpkin_64 (E),

Quallification_62 (E), Rakim_63 (E), Rimmer_62 (E), RiverMonster_62 (E), Saints25_62 (E), Sassay_56 (E), ShamWow_62 (E), ShereKhan_60 (E), Simpliphy_61 (E), SirDuracell_60 (E), SophKB_59 (E), Sotrice96_63 (E), Stank_65 (E), Stark_62 (E), StellaBean_60 (E), StolenFromERC_64 (E), TBrady12_65 (E), Tarkin_61 (E), TeardropMSU_58 (E), Teaspoon_63 (E), Terminus_64 (E), Thresher_64 (E), Tomaszewski_57 (E), Toto_60 (E), Traaww1_58 (E), Tuco_63 (E), Ukulele_58 (E), Wiggin_64 (E), Willez_56 (E), Xandras_61 (E), YassJohnny_58 (E), Youngblood_64 (E), xkcd_65 (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 122 times for cluster E.

Gene Information:

Gene: 244_62 Start: 42515, Stop: 42820, Start Num: 1

Candidate Starts for 244_62:

(Start: 1 @42515 has 122 MA's), (2, 42746),

Gene: ABCat_59 Start: 43160, Stop: 43465, Start Num: 1

Candidate Starts for ABCat_59:

(Start: 1 @43160 has 122 MA's), (2, 43391),

Gene: Adnama_66 Start: 43183, Stop: 43488, Start Num: 1

Candidate Starts for Adnama_66:

(Start: 1 @43183 has 122 MA's), (2, 43414),

Gene: Amao_61 Start: 42278, Stop: 42583, Start Num: 1

Candidate Starts for Amao_61:

(Start: 1 @42278 has 122 MA's), (2, 42509),

Gene: AmericanBeauty_68 Start: 43028, Stop: 43333, Start Num: 1

Candidate Starts for AmericanBeauty_68:

(Start: 1 @43028 has 122 MA's), (2, 43259),

Gene: Argent26_65 Start: 42666, Stop: 42971, Start Num: 1

Candidate Starts for Argent26_65:

(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: Asriel_62 Start: 41520, Stop: 41825, Start Num: 1

Candidate Starts for Asriel_62:

(Start: 1 @41520 has 122 MA's), (2, 41751),

Gene: BaboJay_58 Start: 42060, Stop: 42365, Start Num: 1

Candidate Starts for BaboJay_58:

(Start: 1 @42060 has 122 MA's), (2, 42291),

Gene: BadStone_59 Start: 42729, Stop: 43034, Start Num: 1

Candidate Starts for BadStone_59:
(Start: 1 @42729 has 122 MA's), (2, 42960),

Gene: Balomoji_61 Start: 42997, Stop: 43302, Start Num: 1
Candidate Starts for Balomoji_61:
(Start: 1 @42997 has 122 MA's), (2, 43228),

Gene: Barbarian_62 Start: 41520, Stop: 41825, Start Num: 1
Candidate Starts for Barbarian_62:
(Start: 1 @41520 has 122 MA's), (2, 41751),

Gene: Bask21_62 Start: 41837, Stop: 42142, Start Num: 1
Candidate Starts for Bask21_62:
(Start: 1 @41837 has 122 MA's), (2, 42068),

Gene: Bench_64 Start: 42498, Stop: 42803, Start Num: 1
Candidate Starts for Bench_64:
(Start: 1 @42498 has 122 MA's), (2, 42729),

Gene: BigBubba_63 Start: 42539, Stop: 42844, Start Num: 1
Candidate Starts for BigBubba_63:
(Start: 1 @42539 has 122 MA's), (2, 42770),

Gene: BilboSwaggins_60 Start: 43168, Stop: 43473, Start Num: 1
Candidate Starts for BilboSwaggins_60:
(Start: 1 @43168 has 122 MA's), (2, 43399),

Gene: Bruin_58 Start: 41407, Stop: 41712, Start Num: 1
Candidate Starts for Bruin_58:
(Start: 1 @41407 has 122 MA's), (2, 41638),

Gene: Buck_62 Start: 43114, Stop: 43419, Start Num: 1
Candidate Starts for Buck_62:
(Start: 1 @43114 has 122 MA's), (2, 43345),

Gene: BugsBunny_62 Start: 42945, Stop: 43250, Start Num: 1
Candidate Starts for BugsBunny_62:
(Start: 1 @42945 has 122 MA's), (2, 43176),

Gene: Cactus_64 Start: 41887, Stop: 42192, Start Num: 1
Candidate Starts for Cactus_64:
(Start: 1 @41887 has 122 MA's), (2, 42118),

Gene: ChosenOne_62 Start: 42187, Stop: 42492, Start Num: 1
Candidate Starts for ChosenOne_62:
(Start: 1 @42187 has 122 MA's), (2, 42418),

Gene: ChotaBhai_61 Start: 42209, Stop: 42514, Start Num: 1
Candidate Starts for ChotaBhai_61:
(Start: 1 @42209 has 122 MA's), (2, 42440),

Gene: Cjw1_61 Start: 43588, Stop: 43893, Start Num: 1
Candidate Starts for Cjw1_61:

(Start: 1 @43588 has 122 MA's), (2, 43819),

Gene: Command613_63 Start: 42926, Stop: 43231, Start Num: 1

Candidate Starts for Command613_63:

(Start: 1 @42926 has 122 MA's), (2, 43157),

Gene: Contagion_58 Start: 41688, Stop: 41993, Start Num: 1

Candidate Starts for Contagion_58:

(Start: 1 @41688 has 122 MA's), (2, 41919),

Gene: Cookies_59 Start: 42060, Stop: 42365, Start Num: 1

Candidate Starts for Cookies_59:

(Start: 1 @42060 has 122 MA's), (2, 42291),

Gene: CrystalP_61 Start: 43168, Stop: 43473, Start Num: 1

Candidate Starts for CrystalP_61:

(Start: 1 @43168 has 122 MA's), (2, 43399),

Gene: Czyszczone1_63 Start: 42397, Stop: 42702, Start Num: 1

Candidate Starts for Czyszczone1_63:

(Start: 1 @42397 has 122 MA's), (2, 42628),

Gene: Daikon_63 Start: 43018, Stop: 43323, Start Num: 1

Candidate Starts for Daikon_63:

(Start: 1 @43018 has 122 MA's), (2, 43249),

Gene: DoctorDiddles_61 Start: 42245, Stop: 42550, Start Num: 1

Candidate Starts for DoctorDiddles_61:

(Start: 1 @42245 has 122 MA's), (2, 42476),

Gene: DrDrey_61 Start: 43316, Stop: 43621, Start Num: 1

Candidate Starts for DrDrey_61:

(Start: 1 @43316 has 122 MA's), (2, 43547),

Gene: Dumbo_61 Start: 42092, Stop: 42397, Start Num: 1

Candidate Starts for Dumbo_61:

(Start: 1 @42092 has 122 MA's), (2, 42323),

Gene: Dusk_59 Start: 42389, Stop: 42694, Start Num: 1

Candidate Starts for Dusk_59:

(Start: 1 @42389 has 122 MA's), (2, 42620),

Gene: Easy2Say_63 Start: 43630, Stop: 43935, Start Num: 1

Candidate Starts for Easy2Say_63:

(Start: 1 @43630 has 122 MA's), (2, 43861),

Gene: Elite2014_61 Start: 42186, Stop: 42491, Start Num: 1

Candidate Starts for Elite2014_61:

(Start: 1 @42186 has 122 MA's), (2, 42417),

Gene: Elph10_61 Start: 41895, Stop: 42200, Start Num: 1

Candidate Starts for Elph10_61:

(Start: 1 @41895 has 122 MA's), (2, 42126),

Gene: Emmina_62 Start: 42093, Stop: 42398, Start Num: 1
Candidate Starts for Emmina_62:
(Start: 1 @42093 has 122 MA's), (2, 42324),

Gene: Eureka_60 Start: 42657, Stop: 42962, Start Num: 1
Candidate Starts for Eureka_60:
(Start: 1 @42657 has 122 MA's), (2, 42888),

Gene: Filch_63 Start: 42118, Stop: 42423, Start Num: 1
Candidate Starts for Filch_63:
(Start: 1 @42118 has 122 MA's), (2, 42349),

Gene: FireRed_65 Start: 43384, Stop: 43689, Start Num: 1
Candidate Starts for FireRed_65:
(Start: 1 @43384 has 122 MA's), (2, 43615),

Gene: Flypotenuse_57 Start: 41881, Stop: 42186, Start Num: 1
Candidate Starts for Flypotenuse_57:
(Start: 1 @41881 has 122 MA's), (2, 42112),

Gene: Gage_64 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for Gage_64:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: Gator_60 Start: 43020, Stop: 43325, Start Num: 1
Candidate Starts for Gator_60:
(Start: 1 @43020 has 122 MA's), (2, 43251),

Gene: Gemini_66 Start: 43183, Stop: 43488, Start Num: 1
Candidate Starts for Gemini_66:
(Start: 1 @43183 has 122 MA's), (2, 43414),

Gene: Glexan_60 Start: 43008, Stop: 43313, Start Num: 1
Candidate Starts for Glexan_60:
(Start: 1 @43008 has 122 MA's), (2, 43239),

Gene: Goku_60 Start: 42386, Stop: 42691, Start Num: 1
Candidate Starts for Goku_60:
(Start: 1 @42386 has 122 MA's), (2, 42617),

Gene: GoldenSpark_65 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for GoldenSpark_65:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: Goldilocks_64 Start: 42168, Stop: 42473, Start Num: 1
Candidate Starts for Goldilocks_64:
(Start: 1 @42168 has 122 MA's), (2, 42399),

Gene: GooberAzure_64 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for GooberAzure_64:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: HanKaySha_61 Start: 41976, Stop: 42281, Start Num: 1
Candidate Starts for HanKaySha_61:
(Start: 1 @41976 has 122 MA's), (2, 42207),

Gene: Harella_61 Start: 43524, Stop: 43829, Start Num: 1
Candidate Starts for Harella_61:
(Start: 1 @43524 has 122 MA's), (2, 43755),

Gene: Henry_60 Start: 42608, Stop: 42913, Start Num: 1
Candidate Starts for Henry_60:
(Start: 1 @42608 has 122 MA's), (2, 42839),

Gene: Highbury_62 Start: 42259, Stop: 42564, Start Num: 1
Candidate Starts for Highbury_62:
(Start: 1 @42259 has 122 MA's), (2, 42490),

Gene: Holt_66 Start: 43080, Stop: 43385, Start Num: 1
Candidate Starts for Holt_66:
(Start: 1 @43080 has 122 MA's), (2, 43311),

Gene: Hoonter_64 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for Hoonter_64:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: Hokey_62 Start: 42510, Stop: 42815, Start Num: 1
Candidate Starts for Hokey_62:
(Start: 1 @42510 has 122 MA's), (2, 42741),

Gene: HufflyPuff_64 Start: 43340, Stop: 43645, Start Num: 1
Candidate Starts for HufflyPuff_64:
(Start: 1 @43340 has 122 MA's), (2, 43571),

Gene: IHOP_60 Start: 42732, Stop: 43037, Start Num: 1
Candidate Starts for IHOP_60:
(Start: 1 @42732 has 122 MA's), (2, 42963),

Gene: Icee_62 Start: 42334, Stop: 42639, Start Num: 1
Candidate Starts for Icee_62:
(Start: 1 @42334 has 122 MA's), (2, 42565),

Gene: Inca_59 Start: 41257, Stop: 41562, Start Num: 1
Candidate Starts for Inca_59:
(Start: 1 @41257 has 122 MA's), (2, 41488),

Gene: JeTaime_62 Start: 43160, Stop: 43465, Start Num: 1
Candidate Starts for JeTaime_62:
(Start: 1 @43160 has 122 MA's), (2, 43391),

Gene: Kanye_58 Start: 42020, Stop: 42325, Start Num: 1
Candidate Starts for Kanye_58:
(Start: 1 @42020 has 122 MA's), (2, 42251),

Gene: Kimchi_65 Start: 42669, Stop: 42974, Start Num: 1

Candidate Starts for Kimchi_65:
(Start: 1 @42669 has 122 MA's), (2, 42900),

Gene: Kostya_62 Start: 42831, Stop: 43136, Start Num: 1
Candidate Starts for Kostya_62:
(Start: 1 @42831 has 122 MA's), (2, 43062),

Gene: Lilac_63 Start: 42295, Stop: 42600, Start Num: 1
Candidate Starts for Lilac_63:
(Start: 1 @42295 has 122 MA's), (2, 42526),

Gene: Lilizi_62 Start: 41969, Stop: 42274, Start Num: 1
Candidate Starts for Lilizi_62:
(Start: 1 @41969 has 122 MA's), (2, 42200),

Gene: Lilpickle_61 Start: 42186, Stop: 42491, Start Num: 1
Candidate Starts for Lilpickle_61:
(Start: 1 @42186 has 122 MA's), (2, 42417),

Gene: MISSy_62 Start: 42393, Stop: 42698, Start Num: 1
Candidate Starts for MISSy_62:
(Start: 1 @42393 has 122 MA's), (2, 42624),

Gene: MPhalcon_62 Start: 42386, Stop: 42691, Start Num: 1
Candidate Starts for MPhalcon_62:
(Start: 1 @42386 has 122 MA's), (2, 42617),

Gene: MadamMonkfish_62 Start: 41910, Stop: 42215, Start Num: 1
Candidate Starts for MadamMonkfish_62:
(Start: 1 @41910 has 122 MA's), (2, 42141),

Gene: Manda_62 Start: 43191, Stop: 43496, Start Num: 1
Candidate Starts for Manda_62:
(Start: 1 @43191 has 122 MA's), (2, 43422),

Gene: Marshmallow_60 Start: 43166, Stop: 43471, Start Num: 1
Candidate Starts for Marshmallow_60:
(Start: 1 @43166 has 122 MA's), (2, 43397),

Gene: Maxxinista_64 Start: 42265, Stop: 42570, Start Num: 1
Candidate Starts for Maxxinista_64:
(Start: 1 @42265 has 122 MA's), (2, 42496),

Gene: Mindy_61 Start: 41774, Stop: 42079, Start Num: 1
Candidate Starts for Mindy_61:
(Start: 1 @41774 has 122 MA's), (2, 42005),

Gene: Miniwave_57 Start: 42227, Stop: 42532, Start Num: 1
Candidate Starts for Miniwave_57:
(Start: 1 @42227 has 122 MA's), (2, 42458),

Gene: Misfit_63 Start: 43405, Stop: 43710, Start Num: 1
Candidate Starts for Misfit_63:

(Start: 1 @43405 has 122 MA's), (2, 43636),

Gene: Moldemort_65 Start: 42783, Stop: 43088, Start Num: 1

Candidate Starts for Moldemort_65:

(Start: 1 @42783 has 122 MA's), (2, 43014),

Gene: Mosby_58 Start: 41688, Stop: 41993, Start Num: 1

Candidate Starts for Mosby_58:

(Start: 1 @41688 has 122 MA's), (2, 41919),

Gene: Murica_64 Start: 43340, Stop: 43645, Start Num: 1

Candidate Starts for Murica_64:

(Start: 1 @43340 has 122 MA's), (2, 43571),

Gene: Murphy_63 Start: 42777, Stop: 43082, Start Num: 1

Candidate Starts for Murphy_63:

(Start: 1 @42777 has 122 MA's), (2, 43008),

Gene: Myrale_61 Start: 43031, Stop: 43336, Start Num: 1

Candidate Starts for Myrale_61:

(Start: 1 @43031 has 122 MA's), (2, 43262),

Gene: Nala_63 Start: 42898, Stop: 43203, Start Num: 1

Candidate Starts for Nala_63:

(Start: 1 @42898 has 122 MA's), (2, 43129),

Gene: NelitzaMV_59 Start: 41975, Stop: 42280, Start Num: 1

Candidate Starts for NelitzaMV_59:

(Start: 1 @41975 has 122 MA's), (2, 42206),

Gene: Nimrod_63 Start: 43598, Stop: 43903, Start Num: 1

Candidate Starts for Nimrod_63:

(Start: 1 @43598 has 122 MA's), (2, 43829),

Gene: NoSleep_63 Start: 42531, Stop: 42836, Start Num: 1

Candidate Starts for NoSleep_63:

(Start: 1 @42531 has 122 MA's), (2, 42762),

Gene: OrionPax_60 Start: 41982, Stop: 42287, Start Num: 1

Candidate Starts for OrionPax_60:

(Start: 1 @41982 has 122 MA's), (2, 42213),

Gene: Palpatine_64 Start: 43370, Stop: 43675, Start Num: 1

Candidate Starts for Palpatine_64:

(Start: 1 @43370 has 122 MA's), (2, 43601),

Gene: Paperbeatsrock_61 Start: 42905, Stop: 43210, Start Num: 1

Candidate Starts for Paperbeatsrock_61:

(Start: 1 @42905 has 122 MA's), (2, 43136),

Gene: Pat3_60 Start: 41135, Stop: 41440, Start Num: 1

Candidate Starts for Pat3_60:

(Start: 1 @41135 has 122 MA's), (2, 41366),

Gene: Petra64142_66 Start: 43834, Stop: 44139, Start Num: 1
Candidate Starts for Petra64142_66:
(Start: 1 @43834 has 122 MA's), (2, 44065),

Gene: Phaja_60 Start: 42731, Stop: 43036, Start Num: 1
Candidate Starts for Phaja_60:
(Start: 1 @42731 has 122 MA's), (2, 42962),

Gene: Pharsalus_59 Start: 42705, Stop: 43010, Start Num: 1
Candidate Starts for Pharsalus_59:
(Start: 1 @42705 has 122 MA's), (2, 42936),

Gene: PhatBacter_65 Start: 43384, Stop: 43689, Start Num: 1
Candidate Starts for PhatBacter_65:
(Start: 1 @43384 has 122 MA's), (2, 43615),

Gene: Phaux_63 Start: 43382, Stop: 43687, Start Num: 1
Candidate Starts for Phaux_63:
(Start: 1 @43382 has 122 MA's), (2, 43613),

Gene: Phrux_59 Start: 41975, Stop: 42280, Start Num: 1
Candidate Starts for Phrux_59:
(Start: 1 @41975 has 122 MA's), (2, 42206),

Gene: Policronamos_66 Start: 43382, Stop: 43687, Start Num: 1
Candidate Starts for Policronamos_66:
(Start: 1 @43382 has 122 MA's), (2, 43613),

Gene: Porky_61 Start: 42101, Stop: 42406, Start Num: 1
Candidate Starts for Porky_61:
(Start: 1 @42101 has 122 MA's), (2, 42332),

Gene: Pumpkin_64 Start: 43032, Stop: 43337, Start Num: 1
Candidate Starts for Pumpkin_64:
(Start: 1 @43032 has 122 MA's), (2, 43263),

Gene: Quallification_62 Start: 43020, Stop: 43325, Start Num: 1
Candidate Starts for Quallification_62:
(Start: 1 @43020 has 122 MA's), (2, 43251),

Gene: Rakim_63 Start: 42782, Stop: 43087, Start Num: 1
Candidate Starts for Rakim_63:
(Start: 1 @42782 has 122 MA's), (2, 43013),

Gene: Rimmer_62 Start: 42724, Stop: 43029, Start Num: 1
Candidate Starts for Rimmer_62:
(Start: 1 @42724 has 122 MA's), (2, 42955),

Gene: RiverMonster_62 Start: 42553, Stop: 42858, Start Num: 1
Candidate Starts for RiverMonster_62:
(Start: 1 @42553 has 122 MA's), (2, 42784),

Gene: Saints25_62 Start: 42259, Stop: 42564, Start Num: 1
Candidate Starts for Saints25_62:
(Start: 1 @42259 has 122 MA's), (2, 42490),

Gene: Sassay_56 Start: 40653, Stop: 40958, Start Num: 1
Candidate Starts for Sassay_56:
(Start: 1 @40653 has 122 MA's), (2, 40884),

Gene: ShamWow_62 Start: 43168, Stop: 43473, Start Num: 1
Candidate Starts for ShamWow_62:
(Start: 1 @43168 has 122 MA's), (2, 43399),

Gene: ShereKhan_60 Start: 42944, Stop: 43249, Start Num: 1
Candidate Starts for ShereKhan_60:
(Start: 1 @42944 has 122 MA's), (2, 43175),

Gene: Simpliphy_61 Start: 42249, Stop: 42554, Start Num: 1
Candidate Starts for Simpliphy_61:
(Start: 1 @42249 has 122 MA's), (2, 42480),

Gene: SirDuracell_60 Start: 41226, Stop: 41531, Start Num: 1
Candidate Starts for SirDuracell_60:
(Start: 1 @41226 has 122 MA's), (2, 41457),

Gene: SophKB_59 Start: 41924, Stop: 42229, Start Num: 1
Candidate Starts for SophKB_59:
(Start: 1 @41924 has 122 MA's), (2, 42155),

Gene: Sotrice96_63 Start: 42630, Stop: 42935, Start Num: 1
Candidate Starts for Sotrice96_63:
(Start: 1 @42630 has 122 MA's), (2, 42861),

Gene: Stank_65 Start: 43182, Stop: 43487, Start Num: 1
Candidate Starts for Stank_65:
(Start: 1 @43182 has 122 MA's), (2, 43413),

Gene: Stark_62 Start: 42437, Stop: 42742, Start Num: 1
Candidate Starts for Stark_62:
(Start: 1 @42437 has 122 MA's), (2, 42668),

Gene: StellaBean_60 Start: 42492, Stop: 42797, Start Num: 1
Candidate Starts for StellaBean_60:
(Start: 1 @42492 has 122 MA's), (2, 42723),

Gene: StolenFromERC_64 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for StolenFromERC_64:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: TBrady12_65 Start: 42666, Stop: 42971, Start Num: 1
Candidate Starts for TBrady12_65:
(Start: 1 @42666 has 122 MA's), (2, 42897),

Gene: Tarkin_61 Start: 42914, Stop: 43219, Start Num: 1

Candidate Starts for Tarkin_61:
(Start: 1 @42914 has 122 MA's), (2, 43145),

Gene: TeardropMSU_58 Start: 41914, Stop: 42219, Start Num: 1
Candidate Starts for TeardropMSU_58:
(Start: 1 @41914 has 122 MA's), (2, 42145),

Gene: Teaspoon_63 Start: 42808, Stop: 43113, Start Num: 1
Candidate Starts for Teaspoon_63:
(Start: 1 @42808 has 122 MA's), (2, 43039),

Gene: Terminus_64 Start: 43405, Stop: 43710, Start Num: 1
Candidate Starts for Terminus_64:
(Start: 1 @43405 has 122 MA's), (2, 43636),

Gene: Thresher_64 Start: 43791, Stop: 44096, Start Num: 1
Candidate Starts for Thresher_64:
(Start: 1 @43791 has 122 MA's), (2, 44022),

Gene: Tomaszewski_57 Start: 41787, Stop: 42092, Start Num: 1
Candidate Starts for Tomaszewski_57:
(Start: 1 @41787 has 122 MA's), (2, 42018),

Gene: Toto_60 Start: 43168, Stop: 43473, Start Num: 1
Candidate Starts for Toto_60:
(Start: 1 @43168 has 122 MA's), (2, 43399),

Gene: Traaww1_58 Start: 42349, Stop: 42654, Start Num: 1
Candidate Starts for Traaww1_58:
(Start: 1 @42349 has 122 MA's), (2, 42580),

Gene: Tuco_63 Start: 43676, Stop: 43981, Start Num: 1
Candidate Starts for Tuco_63:
(Start: 1 @43676 has 122 MA's), (2, 43907),

Gene: Ukulele_58 Start: 42062, Stop: 42367, Start Num: 1
Candidate Starts for Ukulele_58:
(Start: 1 @42062 has 122 MA's), (2, 42293),

Gene: Wiggin_64 Start: 42750, Stop: 43055, Start Num: 1
Candidate Starts for Wiggin_64:
(Start: 1 @42750 has 122 MA's), (2, 42981),

Gene: Willez_56 Start: 40653, Stop: 40958, Start Num: 1
Candidate Starts for Willez_56:
(Start: 1 @40653 has 122 MA's), (2, 40884),

Gene: Xandras_61 Start: 42161, Stop: 42466, Start Num: 1
Candidate Starts for Xandras_61:
(Start: 1 @42161 has 122 MA's), (2, 42392),

Gene: YassJohnny_58 Start: 41827, Stop: 42132, Start Num: 1
Candidate Starts for YassJohnny_58:

(Start: 1 @41827 has 122 MA's), (2, 42058),

Gene: Youngblood_64 Start: 43335, Stop: 43640, Start Num: 1

Candidate Starts for Youngblood_64:

(Start: 1 @43335 has 122 MA's), (2, 43566),

Gene: xkcd_65 Start: 43525, Stop: 43830, Start Num: 1

Candidate Starts for xkcd_65:

(Start: 1 @43525 has 122 MA's), (2, 43756),