



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 322989 Report

This analysis was run 09/05/26 on database version 662.

Pham number 322989 has 145 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Marshmallow_72, Barbarian_73, MollyToe_69, Traaww1_70, Mindy_73, PaddyBaddy_74, Myrale_74, Dumbo_74, Flypotenuse_70, Hoonter_77, TBrady12_77, Manda_75, Daikon_76, Lilac_76, Filch_75, Easy2Say_75, FoghornLeghorn_68, Bogg_74, Pumpkin_77, Rimmer_75, OrionPax_73, Teaspoon_75, ShamWow_74, Miniwave_69, Holt_79, Phaux_76, Buck_75, YassJohnny_71, Tomaszewski_69, Porky_73, ShereKhan_73, Kostya_74, Amao_74, Highbury_73, SophKB_71, Ukulele_69, Cactus_77, NelitzaMV_72, NoSleep_75, Glexan_73, Czyszczo1_75, Nala_76, Greep_78, xkcd_77, Elph10_74, Adnama_78, Sassay_69, SirDuracell_73, Harella_74, TeardropMSU_70, RiverMonster_74, Pat3_72, BigBubba_74, GoldenSpark_78, Lilizi_75, Mosby_70, Thresher_76, IHOP_72, Hopey_74, Cookies_71, GooberAzure_77, Youngblood_77, Goldilocks_77, MPhalcon_75, AmericanBeauty_78, Icee_75, Murica_77, ChotaBhai_74, Eureka_72, Murphy_74, Inca_71, Terminus_77, Bench_77, Balomoji_74, Gator_72, Brewer_70, Kanye_71, Command613_76, Saints25_73, Gemini_79, Stark_75, 244_75, CrystalP_73, PhatBacter_78, Phrux_71, StormChicken_76, FairyPath_75, Elite2014_73, BugsBunny_74, Maxxinista_76, Cjw1_74, JeTaime_74, BaboJay_71, ChosenOne_74, HuffyPuff_77, Pharsalus_71, Emmina_74, Moldemort_77, Gage_76, TeamEdward_76, Goku_72, Simpliphy_73, Kimchi_78, Liveloughbron_76, BadStone_71, Misfit_75, Asriel_73, Henry_72, Nimrod_75, ABCat_71, DoctorDiddles_73, Argent26_78, Phaja_72, Bask21_74, Petra64142_78, Palpatine_76, Tarkin_73, Bruin_71, Wiggin_76, FireRed_78, MISSy_75, Xandras_73, Ptowny_71, Policronamos_77, HankKaySha_74, Becksu_73, Sotrice96_75, Tuco_75, StolenFromERC_77, Rakim_75, DrDrey_74, Paperbeatsrock_73, Qualification_75, Toto_72, NonchalantPear_74, Contagion_70, Lilpickle_73, Thimble_75, MadamMonkfish_74, StellaBean_72, Willez_69, BilboSwaggins_72, Stank_77
- Track 2 : Budgie_80
- Track 3 : Dusk_71

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 134 of the 134 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_75, ABCat_71, Adnama_78, Amao_74, AmericanBeauty_78, Argent26_78, Asriel_73, BaboJay_71, BadStone_71, Balomoji_74, Barbarian_73, Bask21_74, Becksu_73, Bench_77, BigBubba_74, BilboSwaggins_72, Bogg_74, Brewer_70, Bruin_71, Buck_75, Budgie_80, BugsBunny_74, Cactus_77, ChosenOne_74, ChotaBhai_74, Cjw1_74, Command613_76, Contagion_70, Cookies_71, CrystalP_73, Czystczon1_75, Daikon_76, DoctorDiddles_73, DrDrey_74, Dumbo_74, Dusk_71, Easy2Say_75, Elite2014_73, Elph10_74, Emmina_74, Eureka_72, FairyPath_75, Filch_75, FireRed_78, Flypotenuse_70, FoghornLeghorn_68, Gage_76, Gator_72, Gemini_79, Glexan_73, Goku_72, GoldenSpark_78, Goldilocks_77, GooberAzure_77, Greep_78, HanKaySha_74, Harella_74, Henry_72, Highbury_73, Holt_79, Hoonter_77, Hopey_74, HufflyPuff_77, IHOP_72, Icee_75, Inca_71, JeTaime_74, Kanye_71, Kimchi_78, Kostya_74, Lilac_76, Lilizi_75, Lilpickle_73, Liveloughbron_76, MISSy_75, MPhalcon_75, MadamMonkfish_74, Manda_75, Marshmallow_72, Maxxinista_76, Mindy_73, Miniwave_69, Misfit_75, Moldemort_77, MollyToe_69, Mosby_70, Murica_77, Murphy_74, Myrale_74, Nala_76, NelitzaMV_72, Nimrod_75, NoSleep_75, NonchalantPear_74, OrionPax_73, PaddyBaddy_74, Palpatine_76, Paperbeatsrock_73, Pat3_72, Petra64142_78, Phaja_72, Pharsalus_71, PhatBacter_78, Phaux_76, Phrux_71, Policronamos_77, Porky_73, Ptowny_71, Pumpkin_77, Quallification_75, Rakim_75, Rimmer_75, RiverMonster_74, Saints25_73, Sassay_69, ShamWow_74, ShereKhan_73, Simpliphy_73, SirDuracell_73, SophKB_71, Sotrice96_75, Stank_77, Stark_75, StellaBean_72, StolenFromERC_77, StormChicken_76, TBrady12_77, Tarkin_73, TeamEdward_76, TeardropMSU_70, Teaspoon_75, Terminus_77, Thimble_75, Thresher_76, Tomaszewski_69, Toto_72, Traaww1_70, Tuc0_75, Ukulele_69, Wiggin_76, Willez_69, Xandras_73, YassJohnny_71, Youngblood_77, xkcd_77,

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 145 of 145 (100.0%) of genes in pham
- Manual Annotations of this start: 134 of 134
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_75 (E), ABCat_71 (E), Adnama_78 (E), Amao_74 (E), AmericanBeauty_78 (E), Argent26_78 (E), Asriel_73 (E), BaboJay_71 (E), BadStone_71 (E), Balomoji_74 (E), Barbarian_73 (E), Bask21_74 (E), Becksu_73 (E), Bench_77 (E), BigBubba_74 (E), BilboSwaggins_72 (E), Bogg_74 (E), Brewer_70 (E), Bruin_71 (E), Buck_75 (E), Budgie_80 (E), BugsBunny_74 (E), Cactus_77 (E), ChosenOne_74 (E), ChotaBhai_74 (E), Cjw1_74 (E), Command613_76 (E), Contagion_70 (E), Cookies_71 (E), CrystalP_73 (E), Czystczon1_75 (E), Daikon_76 (E), DoctorDiddles_73 (E), DrDrey_74 (E), Dumbo_74 (E), Dusk_71 (E), Easy2Say_75 (E), Elite2014_73 (E), Elph10_74 (E), Emmina_74 (E), Eureka_72 (E), FairyPath_75 (E), Filch_75 (E), FireRed_78 (E), Flypotenuse_70 (E), FoghornLeghorn_68 (E), Gage_76 (E), Gator_72 (E), Gemini_79 (E), Glexan_73 (E), Goku_72 (E), GoldenSpark_78 (E), Goldilocks_77 (E), GooberAzure_77 (E), Greep_78 (E), HanKaySha_74 (E), Harella_74 (E), Henry_72 (E), Highbury_73 (E), Holt_79 (E), Hoonter_77 (E), Hopey_74 (E), HufflyPuff_77 (E),

IHOP_72 (E), Icee_75 (E), Inca_71 (E), JeTaime_74 (E), Kanye_71 (E), Kimchi_78 (E), Kostya_74 (E), Lilac_76 (E), Lilizi_75 (E), Lilpickle_73 (E), Liveloughbron_76 (E), MISSy_75 (E), MPhalcon_75 (E), MadamMonkfish_74 (E), Manda_75 (E), Marshmallow_72 (E), Maxxinista_76 (E), Mindy_73 (E), Miniwave_69 (E), Misfit_75 (E), Moldemort_77 (E), MollyToe_69 (E), Mosby_70 (E), Murica_77 (E), Murphy_74 (E), Myrale_74 (E), Nala_76 (E), NelitzaMV_72 (E), Nimrod_75 (E), NoSleep_75 (E), NonchalantPear_74 (E), OrionPax_73 (E), PaddyBaddy_74 (E), Palpatine_76 (E), Paperbeatsrock_73 (E), Pat3_72 (E), Petra64142_78 (E), Phaja_72 (E), Pharsalus_71 (E), PhatBacter_78 (E), Phaux_76 (E), Phrux_71 (E), Policronamos_77 (E), Porky_73 (E), Ptowny_71 (E), Pumpkin_77 (E), Quallification_75 (E), Rakim_75 (E), Rimmer_75 (E), RiverMonster_74 (E), Saints25_73 (E), Sassay_69 (E), ShamWow_74 (E), ShereKhan_73 (E), Simpliphy_73 (E), SirDuracell_73 (E), SophKB_71 (E), Sotrice96_75 (E), Stank_77 (E), Stark_75 (E), StellaBean_72 (E), StolenFromERC_77 (E), StormChicken_76 (E), TBrady12_77 (E), Tarkin_73 (E), TeamEdward_76 (E), TeardropMSU_70 (E), Teaspoon_75 (E), Terminus_77 (E), Thimble_75 (E), Thresher_76 (E), Tomaszewski_69 (E), Toto_72 (E), Traaww1_70 (E), Tuc0_75 (E), Ukulele_69 (E), Wiggins_76 (E), Willez_69 (E), Xandras_73 (E), YassJohnny_71 (E), Youngblood_77 (E), xkcd_77 (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 134 times for cluster E.

Gene Information:

Gene: 244_75 Start: 47793, Stop: 47966, Start Num: 1

Candidate Starts for 244_75:

(Start: 1 @47793 has 134 MA's), (2, 47844),

Gene: ABCat_71 Start: 48146, Stop: 48319, Start Num: 1

Candidate Starts for ABCat_71:

(Start: 1 @48146 has 134 MA's), (2, 48197),

Gene: Adnama_78 Start: 48172, Stop: 48345, Start Num: 1

Candidate Starts for Adnama_78:

(Start: 1 @48172 has 134 MA's), (2, 48223),

Gene: Amao_74 Start: 47566, Stop: 47739, Start Num: 1

Candidate Starts for Amao_74:

(Start: 1 @47566 has 134 MA's), (2, 47617),

Gene: AmericanBeauty_78 Start: 48315, Stop: 48488, Start Num: 1

Candidate Starts for AmericanBeauty_78:

(Start: 1 @48315 has 134 MA's), (2, 48366),

Gene: Argent26_78 Start: 47953, Stop: 48126, Start Num: 1

Candidate Starts for Argent26_78:

(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: Asriel_73 Start: 46509, Stop: 46682, Start Num: 1
Candidate Starts for Asriel_73:
(Start: 1 @46509 has 134 MA's), (2, 46560),

Gene: BaboJay_71 Start: 47346, Stop: 47519, Start Num: 1
Candidate Starts for BaboJay_71:
(Start: 1 @47346 has 134 MA's), (2, 47397),

Gene: BadStone_71 Start: 47715, Stop: 47888, Start Num: 1
Candidate Starts for BadStone_71:
(Start: 1 @47715 has 134 MA's), (2, 47766),

Gene: Balomoji_74 Start: 48276, Stop: 48449, Start Num: 1
Candidate Starts for Balomoji_74:
(Start: 1 @48276 has 134 MA's), (2, 48327),

Gene: Barbarian_73 Start: 46509, Stop: 46682, Start Num: 1
Candidate Starts for Barbarian_73:
(Start: 1 @46509 has 134 MA's), (2, 46560),

Gene: Bask21_74 Start: 47129, Stop: 47302, Start Num: 1
Candidate Starts for Bask21_74:
(Start: 1 @47129 has 134 MA's), (2, 47180),

Gene: Becksu_73 Start: 48345, Stop: 48524, Start Num: 1
Candidate Starts for Becksu_73:
(Start: 1 @48345 has 134 MA's), (2, 48396),

Gene: Bench_77 Start: 47813, Stop: 47992, Start Num: 1
Candidate Starts for Bench_77:
(Start: 1 @47813 has 134 MA's), (2, 47864),

Gene: BigBubba_74 Start: 47525, Stop: 47704, Start Num: 1
Candidate Starts for BigBubba_74:
(Start: 1 @47525 has 134 MA's), (2, 47576),

Gene: BilboSwaggins_72 Start: 48154, Stop: 48327, Start Num: 1
Candidate Starts for BilboSwaggins_72:
(Start: 1 @48154 has 134 MA's), (2, 48205),

Gene: Bogg_74 Start: 47092, Stop: 47265, Start Num: 1
Candidate Starts for Bogg_74:
(Start: 1 @47092 has 134 MA's), (2, 47143),

Gene: Brewer_70 Start: 46615, Stop: 46788, Start Num: 1
Candidate Starts for Brewer_70:
(Start: 1 @46615 has 134 MA's), (2, 46666),

Gene: Bruin_71 Start: 46689, Stop: 46868, Start Num: 1
Candidate Starts for Bruin_71:
(Start: 1 @46689 has 134 MA's), (2, 46740),

Gene: Buck_75 Start: 48394, Stop: 48567, Start Num: 1
Candidate Starts for Buck_75:
(Start: 1 @48394 has 134 MA's), (2, 48445),

Gene: Budgie_80 Start: 48184, Stop: 48363, Start Num: 1
Candidate Starts for Budgie_80:
(Start: 1 @48184 has 134 MA's), (2, 48235), (3, 48355),

Gene: BugsBunny_74 Start: 48221, Stop: 48400, Start Num: 1
Candidate Starts for BugsBunny_74:
(Start: 1 @48221 has 134 MA's), (2, 48272),

Gene: Cactus_77 Start: 47170, Stop: 47343, Start Num: 1
Candidate Starts for Cactus_77:
(Start: 1 @47170 has 134 MA's), (2, 47221),

Gene: ChosenOne_74 Start: 47170, Stop: 47343, Start Num: 1
Candidate Starts for ChosenOne_74:
(Start: 1 @47170 has 134 MA's), (2, 47221),

Gene: ChotaBhai_74 Start: 47494, Stop: 47667, Start Num: 1
Candidate Starts for ChotaBhai_74:
(Start: 1 @47494 has 134 MA's), (2, 47545),

Gene: Cjw1_74 Start: 48867, Stop: 49040, Start Num: 1
Candidate Starts for Cjw1_74:
(Start: 1 @48867 has 134 MA's), (2, 48918),

Gene: Command613_76 Start: 48209, Stop: 48382, Start Num: 1
Candidate Starts for Command613_76:
(Start: 1 @48209 has 134 MA's), (2, 48260),

Gene: Contagion_70 Start: 46970, Stop: 47149, Start Num: 1
Candidate Starts for Contagion_70:
(Start: 1 @46970 has 134 MA's), (2, 47021),

Gene: Cookies_71 Start: 47351, Stop: 47524, Start Num: 1
Candidate Starts for Cookies_71:
(Start: 1 @47351 has 134 MA's), (2, 47402),

Gene: CrystalP_73 Start: 48154, Stop: 48327, Start Num: 1
Candidate Starts for CrystalP_73:
(Start: 1 @48154 has 134 MA's), (2, 48205),

Gene: Czyszczonek_75 Start: 47676, Stop: 47855, Start Num: 1
Candidate Starts for Czyszczonek_75:
(Start: 1 @47676 has 134 MA's), (2, 47727),

Gene: Daikon_76 Start: 48297, Stop: 48470, Start Num: 1
Candidate Starts for Daikon_76:
(Start: 1 @48297 has 134 MA's), (2, 48348),

Gene: DoctorDiddles_73 Start: 47538, Stop: 47711, Start Num: 1

Candidate Starts for DoctorDiddles_73:
(Start: 1 @47538 has 134 MA's), (2, 47589),

Gene: DrDrey_74 Start: 48595, Stop: 48774, Start Num: 1
Candidate Starts for DrDrey_74:
(Start: 1 @48595 has 134 MA's), (2, 48646),

Gene: Dumbo_74 Start: 47075, Stop: 47248, Start Num: 1
Candidate Starts for Dumbo_74:
(Start: 1 @47075 has 134 MA's), (2, 47126),

Gene: Dusk_71 Start: 47375, Stop: 47548, Start Num: 1
Candidate Starts for Dusk_71:
(Start: 1 @47375 has 134 MA's),

Gene: Easy2Say_75 Start: 48619, Stop: 48792, Start Num: 1
Candidate Starts for Easy2Say_75:
(Start: 1 @48619 has 134 MA's), (2, 48670),

Gene: Elite2014_73 Start: 47169, Stop: 47342, Start Num: 1
Candidate Starts for Elite2014_73:
(Start: 1 @47169 has 134 MA's), (2, 47220),

Gene: Elph10_74 Start: 47174, Stop: 47353, Start Num: 1
Candidate Starts for Elph10_74:
(Start: 1 @47174 has 134 MA's), (2, 47225),

Gene: Emmina_74 Start: 47076, Stop: 47249, Start Num: 1
Candidate Starts for Emmina_74:
(Start: 1 @47076 has 134 MA's), (2, 47127),

Gene: Eureka_72 Start: 47640, Stop: 47813, Start Num: 1
Candidate Starts for Eureka_72:
(Start: 1 @47640 has 134 MA's), (2, 47691),

Gene: FairyPath_75 Start: 48288, Stop: 48461, Start Num: 1
Candidate Starts for FairyPath_75:
(Start: 1 @48288 has 134 MA's), (2, 48339),

Gene: Filch_75 Start: 47101, Stop: 47280, Start Num: 1
Candidate Starts for Filch_75:
(Start: 1 @47101 has 134 MA's), (2, 47152),

Gene: FireRed_78 Start: 48663, Stop: 48836, Start Num: 1
Candidate Starts for FireRed_78:
(Start: 1 @48663 has 134 MA's), (2, 48714),

Gene: Flypotenuse_70 Start: 47160, Stop: 47333, Start Num: 1
Candidate Starts for Flypotenuse_70:
(Start: 1 @47160 has 134 MA's), (2, 47211),

Gene: FoghornLeghorn_68 Start: 46173, Stop: 46346, Start Num: 1
Candidate Starts for FoghornLeghorn_68:

(Start: 1 @46173 has 134 MA's), (2, 46224),

Gene: Gage_76 Start: 47953, Stop: 48126, Start Num: 1

Candidate Starts for Gage_76:

(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: Gator_72 Start: 48006, Stop: 48185, Start Num: 1

Candidate Starts for Gator_72:

(Start: 1 @48006 has 134 MA's), (2, 48057),

Gene: Gemini_79 Start: 48470, Stop: 48643, Start Num: 1

Candidate Starts for Gemini_79:

(Start: 1 @48470 has 134 MA's), (2, 48521),

Gene: Glexan_73 Start: 48290, Stop: 48463, Start Num: 1

Candidate Starts for Glexan_73:

(Start: 1 @48290 has 134 MA's), (2, 48341),

Gene: Goku_72 Start: 47369, Stop: 47542, Start Num: 1

Candidate Starts for Goku_72:

(Start: 1 @47369 has 134 MA's), (2, 47420),

Gene: GoldenSpark_78 Start: 47953, Stop: 48126, Start Num: 1

Candidate Starts for GoldenSpark_78:

(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: Goldilocks_77 Start: 47451, Stop: 47624, Start Num: 1

Candidate Starts for Goldilocks_77:

(Start: 1 @47451 has 134 MA's), (2, 47502),

Gene: GooberAzure_77 Start: 47953, Stop: 48126, Start Num: 1

Candidate Starts for GooberAzure_77:

(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: Greep_78 Start: 48952, Stop: 49131, Start Num: 1

Candidate Starts for Greep_78:

(Start: 1 @48952 has 134 MA's), (2, 49003),

Gene: HanKaySha_74 Start: 47254, Stop: 47433, Start Num: 1

Candidate Starts for HanKaySha_74:

(Start: 1 @47254 has 134 MA's), (2, 47305),

Gene: Harella_74 Start: 48806, Stop: 48979, Start Num: 1

Candidate Starts for Harella_74:

(Start: 1 @48806 has 134 MA's), (2, 48857),

Gene: Henry_72 Start: 47594, Stop: 47767, Start Num: 1

Candidate Starts for Henry_72:

(Start: 1 @47594 has 134 MA's), (2, 47645),

Gene: Highbury_73 Start: 47242, Stop: 47415, Start Num: 1

Candidate Starts for Highbury_73:

(Start: 1 @47242 has 134 MA's), (2, 47293),

Gene: Holt_79 Start: 48367, Stop: 48540, Start Num: 1
Candidate Starts for Holt_79:
(Start: 1 @48367 has 134 MA's), (2, 48418),

Gene: Hoonter_77 Start: 47953, Stop: 48126, Start Num: 1
Candidate Starts for Hoonter_77:
(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: Hopey_74 Start: 47786, Stop: 47965, Start Num: 1
Candidate Starts for Hopey_74:
(Start: 1 @47786 has 134 MA's), (2, 47837),

Gene: HufflyPuff_77 Start: 48619, Stop: 48792, Start Num: 1
Candidate Starts for HufflyPuff_77:
(Start: 1 @48619 has 134 MA's), (2, 48670),

Gene: IHOP_72 Start: 47718, Stop: 47891, Start Num: 1
Candidate Starts for IHOP_72:
(Start: 1 @47718 has 134 MA's), (2, 47769),

Gene: Icee_75 Start: 47617, Stop: 47790, Start Num: 1
Candidate Starts for Icee_75:
(Start: 1 @47617 has 134 MA's), (2, 47668),

Gene: Inca_71 Start: 46243, Stop: 46416, Start Num: 1
Candidate Starts for Inca_71:
(Start: 1 @46243 has 134 MA's), (2, 46294),

Gene: JeTaime_74 Start: 48435, Stop: 48608, Start Num: 1
Candidate Starts for JeTaime_74:
(Start: 1 @48435 has 134 MA's), (2, 48486),

Gene: Kanye_71 Start: 47299, Stop: 47472, Start Num: 1
Candidate Starts for Kanye_71:
(Start: 1 @47299 has 134 MA's), (2, 47350),

Gene: Kimchi_78 Start: 47956, Stop: 48129, Start Num: 1
Candidate Starts for Kimchi_78:
(Start: 1 @47956 has 134 MA's), (2, 48007),

Gene: Kostya_74 Start: 47817, Stop: 47990, Start Num: 1
Candidate Starts for Kostya_74:
(Start: 1 @47817 has 134 MA's), (2, 47868),

Gene: Lilac_76 Start: 47571, Stop: 47750, Start Num: 1
Candidate Starts for Lilac_76:
(Start: 1 @47571 has 134 MA's), (2, 47622),

Gene: Lilizi_75 Start: 47284, Stop: 47463, Start Num: 1
Candidate Starts for Lilizi_75:
(Start: 1 @47284 has 134 MA's), (2, 47335),

Gene: Lilpickle_73 Start: 47169, Stop: 47342, Start Num: 1
Candidate Starts for Lilpickle_73:
(Start: 1 @47169 has 134 MA's), (2, 47220),

Gene: Liveloughbron_76 Start: 48747, Stop: 48926, Start Num: 1
Candidate Starts for Liveloughbron_76:
(Start: 1 @48747 has 134 MA's), (2, 48798),

Gene: MISSy_75 Start: 47675, Stop: 47854, Start Num: 1
Candidate Starts for MISSy_75:
(Start: 1 @47675 has 134 MA's), (2, 47726),

Gene: MPhalcon_75 Start: 47668, Stop: 47847, Start Num: 1
Candidate Starts for MPhalcon_75:
(Start: 1 @47668 has 134 MA's), (2, 47719),

Gene: MadamMonkfish_74 Start: 46893, Stop: 47066, Start Num: 1
Candidate Starts for MadamMonkfish_74:
(Start: 1 @46893 has 134 MA's), (2, 46944),

Gene: Manda_75 Start: 48755, Stop: 48928, Start Num: 1
Candidate Starts for Manda_75:
(Start: 1 @48755 has 134 MA's), (2, 48806),

Gene: Marshmallow_72 Start: 48448, Stop: 48621, Start Num: 1
Candidate Starts for Marshmallow_72:
(Start: 1 @48448 has 134 MA's), (2, 48499),

Gene: Maxxinista_76 Start: 47544, Stop: 47723, Start Num: 1
Candidate Starts for Maxxinista_76:
(Start: 1 @47544 has 134 MA's), (2, 47595),

Gene: Mindy_73 Start: 46760, Stop: 46933, Start Num: 1
Candidate Starts for Mindy_73:
(Start: 1 @46760 has 134 MA's), (2, 46811),

Gene: Miniwave_69 Start: 47213, Stop: 47386, Start Num: 1
Candidate Starts for Miniwave_69:
(Start: 1 @47213 has 134 MA's), (2, 47264),

Gene: Misfit_75 Start: 48687, Stop: 48866, Start Num: 1
Candidate Starts for Misfit_75:
(Start: 1 @48687 has 134 MA's), (2, 48738),

Gene: Moldemort_77 Start: 47772, Stop: 47945, Start Num: 1
Candidate Starts for Moldemort_77:
(Start: 1 @47772 has 134 MA's), (2, 47823),

Gene: MollyToe_69 Start: 46514, Stop: 46687, Start Num: 1
Candidate Starts for MollyToe_69:
(Start: 1 @46514 has 134 MA's), (2, 46565),

Gene: Mosby_70 Start: 46970, Stop: 47149, Start Num: 1

Candidate Starts for Mosby_70:
(Start: 1 @46970 has 134 MA's), (2, 47021),

Gene: Murica_77 Start: 48619, Stop: 48792, Start Num: 1
Candidate Starts for Murica_77:
(Start: 1 @48619 has 134 MA's), (2, 48670),

Gene: Murphy_74 Start: 48056, Stop: 48235, Start Num: 1
Candidate Starts for Murphy_74:
(Start: 1 @48056 has 134 MA's), (2, 48107),

Gene: Myrale_74 Start: 48313, Stop: 48486, Start Num: 1
Candidate Starts for Myrale_74:
(Start: 1 @48313 has 134 MA's), (2, 48364),

Gene: Nala_76 Start: 48177, Stop: 48350, Start Num: 1
Candidate Starts for Nala_76:
(Start: 1 @48177 has 134 MA's), (2, 48228),

Gene: NelitzaMV_72 Start: 47259, Stop: 47432, Start Num: 1
Candidate Starts for NelitzaMV_72:
(Start: 1 @47259 has 134 MA's), (2, 47310),

Gene: Nimrod_75 Start: 48880, Stop: 49053, Start Num: 1
Candidate Starts for Nimrod_75:
(Start: 1 @48880 has 134 MA's), (2, 48931),

Gene: NoSleep_75 Start: 47514, Stop: 47687, Start Num: 1
Candidate Starts for NoSleep_75:
(Start: 1 @47514 has 134 MA's), (2, 47565),

Gene: NonchalantPear_74 Start: 47367, Stop: 47540, Start Num: 1
Candidate Starts for NonchalantPear_74:
(Start: 1 @47367 has 134 MA's), (2, 47418),

Gene: OrionPax_73 Start: 47265, Stop: 47438, Start Num: 1
Candidate Starts for OrionPax_73:
(Start: 1 @47265 has 134 MA's), (2, 47316),

Gene: PaddyBaddy_74 Start: 47268, Stop: 47447, Start Num: 1
Candidate Starts for PaddyBaddy_74:
(Start: 1 @47268 has 134 MA's), (2, 47319),

Gene: Palpatine_76 Start: 48646, Stop: 48825, Start Num: 1
Candidate Starts for Palpatine_76:
(Start: 1 @48646 has 134 MA's), (2, 48697),

Gene: Paperbeatsrock_73 Start: 47891, Stop: 48064, Start Num: 1
Candidate Starts for Paperbeatsrock_73:
(Start: 1 @47891 has 134 MA's), (2, 47942),

Gene: Pat3_72 Start: 46423, Stop: 46596, Start Num: 1
Candidate Starts for Pat3_72:

(Start: 1 @46423 has 134 MA's), (2, 46474),

Gene: Petra64142_78 Start: 49110, Stop: 49283, Start Num: 1

Candidate Starts for Petra64142_78:

(Start: 1 @49110 has 134 MA's), (2, 49161),

Gene: Phaja_72 Start: 47717, Stop: 47890, Start Num: 1

Candidate Starts for Phaja_72:

(Start: 1 @47717 has 134 MA's), (2, 47768),

Gene: Pharsalus_71 Start: 47691, Stop: 47864, Start Num: 1

Candidate Starts for Pharsalus_71:

(Start: 1 @47691 has 134 MA's), (2, 47742),

Gene: PhatBacter_78 Start: 48663, Stop: 48842, Start Num: 1

Candidate Starts for PhatBacter_78:

(Start: 1 @48663 has 134 MA's), (2, 48714),

Gene: Phaux_76 Start: 48658, Stop: 48837, Start Num: 1

Candidate Starts for Phaux_76:

(Start: 1 @48658 has 134 MA's), (2, 48709),

Gene: Phrux_71 Start: 47254, Stop: 47433, Start Num: 1

Candidate Starts for Phrux_71:

(Start: 1 @47254 has 134 MA's), (2, 47305),

Gene: Policronamos_77 Start: 48658, Stop: 48837, Start Num: 1

Candidate Starts for Policronamos_77:

(Start: 1 @48658 has 134 MA's), (2, 48709),

Gene: Porky_73 Start: 47084, Stop: 47257, Start Num: 1

Candidate Starts for Porky_73:

(Start: 1 @47084 has 134 MA's), (2, 47135),

Gene: Ptowny_71 Start: 46553, Stop: 46726, Start Num: 1

Candidate Starts for Ptowny_71:

(Start: 1 @46553 has 134 MA's), (2, 46604),

Gene: Pumpkin_77 Start: 48312, Stop: 48491, Start Num: 1

Candidate Starts for Pumpkin_77:

(Start: 1 @48312 has 134 MA's), (2, 48363),

Gene: Qualification_75 Start: 48299, Stop: 48472, Start Num: 1

Candidate Starts for Qualification_75:

(Start: 1 @48299 has 134 MA's), (2, 48350),

Gene: Rakim_75 Start: 47768, Stop: 47947, Start Num: 1

Candidate Starts for Rakim_75:

(Start: 1 @47768 has 134 MA's), (2, 47819),

Gene: Rimmer_75 Start: 48004, Stop: 48177, Start Num: 1

Candidate Starts for Rimmer_75:

(Start: 1 @48004 has 134 MA's), (2, 48055),

Gene: RiverMonster_74 Start: 47832, Stop: 48011, Start Num: 1
Candidate Starts for RiverMonster_74:
(Start: 1 @47832 has 134 MA's), (2, 47883),

Gene: Saints25_73 Start: 47242, Stop: 47415, Start Num: 1
Candidate Starts for Saints25_73:
(Start: 1 @47242 has 134 MA's), (2, 47293),

Gene: Sassay_69 Start: 45932, Stop: 46111, Start Num: 1
Candidate Starts for Sassay_69:
(Start: 1 @45932 has 134 MA's), (2, 45983),

Gene: ShamWow_74 Start: 48154, Stop: 48327, Start Num: 1
Candidate Starts for ShamWow_74:
(Start: 1 @48154 has 134 MA's), (2, 48205),

Gene: ShereKhan_73 Start: 48223, Stop: 48396, Start Num: 1
Candidate Starts for ShereKhan_73:
(Start: 1 @48223 has 134 MA's), (2, 48274),

Gene: Simpliphy_73 Start: 47232, Stop: 47405, Start Num: 1
Candidate Starts for Simpliphy_73:
(Start: 1 @47232 has 134 MA's), (2, 47283),

Gene: SirDuracell_73 Start: 46518, Stop: 46691, Start Num: 1
Candidate Starts for SirDuracell_73:
(Start: 1 @46518 has 134 MA's), (2, 46569),

Gene: SophKB_71 Start: 46910, Stop: 47083, Start Num: 1
Candidate Starts for SophKB_71:
(Start: 1 @46910 has 134 MA's), (2, 46961),

Gene: Sotrice96_75 Start: 47913, Stop: 48086, Start Num: 1
Candidate Starts for Sotrice96_75:
(Start: 1 @47913 has 134 MA's), (2, 47964),

Gene: Stank_77 Start: 48171, Stop: 48344, Start Num: 1
Candidate Starts for Stank_77:
(Start: 1 @48171 has 134 MA's), (2, 48222),

Gene: Stark_75 Start: 47715, Stop: 47894, Start Num: 1
Candidate Starts for Stark_75:
(Start: 1 @47715 has 134 MA's), (2, 47766),

Gene: StellaBean_72 Start: 47478, Stop: 47651, Start Num: 1
Candidate Starts for StellaBean_72:
(Start: 1 @47478 has 134 MA's), (2, 47529),

Gene: StolenFromERC_77 Start: 47953, Stop: 48126, Start Num: 1
Candidate Starts for StolenFromERC_77:
(Start: 1 @47953 has 134 MA's), (2, 48004),

Gene: StormChicken_76 Start: 48611, Stop: 48784, Start Num: 1
Candidate Starts for StormChicken_76:
(Start: 1 @48611 has 134 MA's), (2, 48662),

Gene: TBrady12_77 Start: 47652, Stop: 47825, Start Num: 1
Candidate Starts for TBrady12_77:
(Start: 1 @47652 has 134 MA's), (2, 47703),

Gene: Tarkin_73 Start: 47900, Stop: 48073, Start Num: 1
Candidate Starts for Tarkin_73:
(Start: 1 @47900 has 134 MA's), (2, 47951),

Gene: TeamEdward_76 Start: 48605, Stop: 48778, Start Num: 1
Candidate Starts for TeamEdward_76:
(Start: 1 @48605 has 134 MA's), (2, 48656),

Gene: TeardropMSU_70 Start: 46900, Stop: 47073, Start Num: 1
Candidate Starts for TeardropMSU_70:
(Start: 1 @46900 has 134 MA's), (2, 46951),

Gene: Teaspoon_75 Start: 47794, Stop: 47967, Start Num: 1
Candidate Starts for Teaspoon_75:
(Start: 1 @47794 has 134 MA's), (2, 47845),

Gene: Terminus_77 Start: 48687, Stop: 48866, Start Num: 1
Candidate Starts for Terminus_77:
(Start: 1 @48687 has 134 MA's), (2, 48738),

Gene: Thimble_75 Start: 47135, Stop: 47314, Start Num: 1
Candidate Starts for Thimble_75:
(Start: 1 @47135 has 134 MA's), (2, 47186),

Gene: Thresher_76 Start: 48774, Stop: 48953, Start Num: 1
Candidate Starts for Thresher_76:
(Start: 1 @48774 has 134 MA's), (2, 48825),

Gene: Tomaszewski_69 Start: 47063, Stop: 47236, Start Num: 1
Candidate Starts for Tomaszewski_69:
(Start: 1 @47063 has 134 MA's), (2, 47114),

Gene: Toto_72 Start: 48154, Stop: 48327, Start Num: 1
Candidate Starts for Toto_72:
(Start: 1 @48154 has 134 MA's), (2, 48205),

Gene: Traaww1_70 Start: 47338, Stop: 47511, Start Num: 1
Candidate Starts for Traaww1_70:
(Start: 1 @47338 has 134 MA's), (2, 47389),

Gene: Tuco_75 Start: 48662, Stop: 48835, Start Num: 1
Candidate Starts for Tuco_75:
(Start: 1 @48662 has 134 MA's), (2, 48713),

Gene: Ukulele_69 Start: 47045, Stop: 47218, Start Num: 1

Candidate Starts for Ukulele_69:
(Start: 1 @47045 has 134 MA's), (2, 47096),

Gene: Wiggin_76 Start: 47739, Stop: 47912, Start Num: 1
Candidate Starts for Wiggin_76:
(Start: 1 @47739 has 134 MA's), (2, 47790),

Gene: Willez_69 Start: 45932, Stop: 46111, Start Num: 1
Candidate Starts for Willez_69:
(Start: 1 @45932 has 134 MA's), (2, 45983),

Gene: Xandras_73 Start: 47147, Stop: 47326, Start Num: 1
Candidate Starts for Xandras_73:
(Start: 1 @47147 has 134 MA's), (2, 47198),

Gene: YassJohnny_71 Start: 47102, Stop: 47275, Start Num: 1
Candidate Starts for YassJohnny_71:
(Start: 1 @47102 has 134 MA's), (2, 47153),

Gene: Youngblood_77 Start: 48614, Stop: 48793, Start Num: 1
Candidate Starts for Youngblood_77:
(Start: 1 @48614 has 134 MA's), (2, 48665),

Gene: xkcd_77 Start: 48804, Stop: 48977, Start Num: 1
Candidate Starts for xkcd_77:
(Start: 1 @48804 has 134 MA's), (2, 48855),