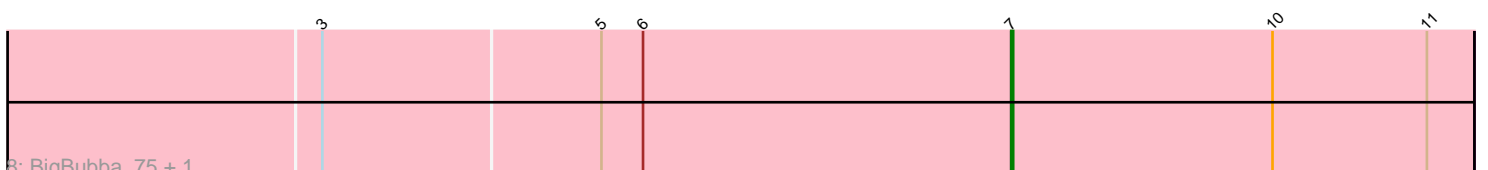
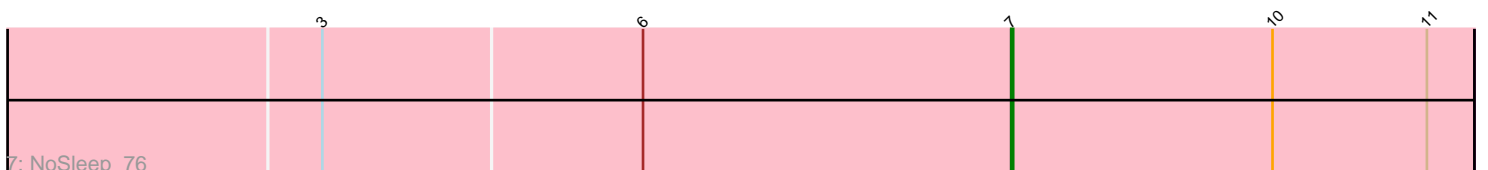
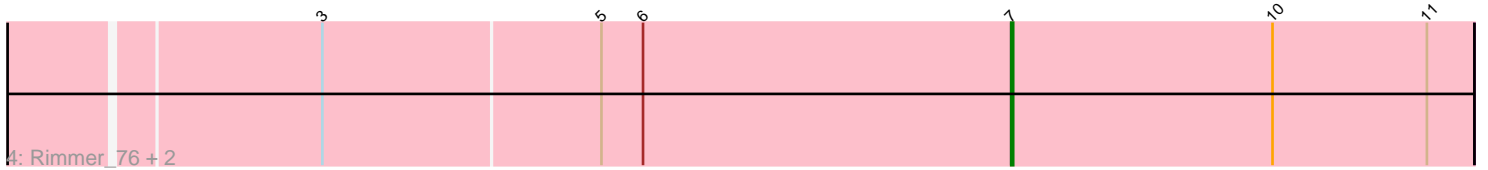
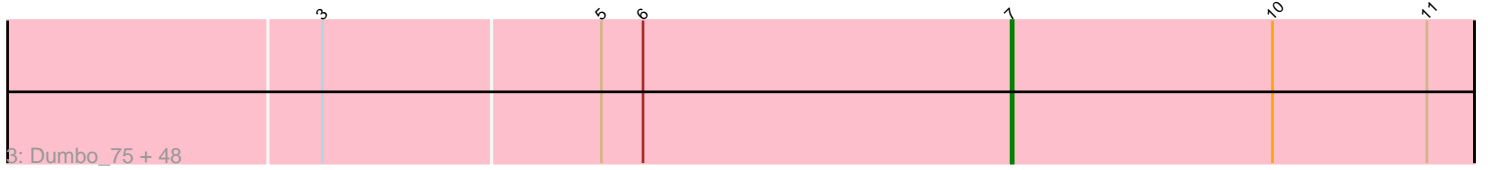
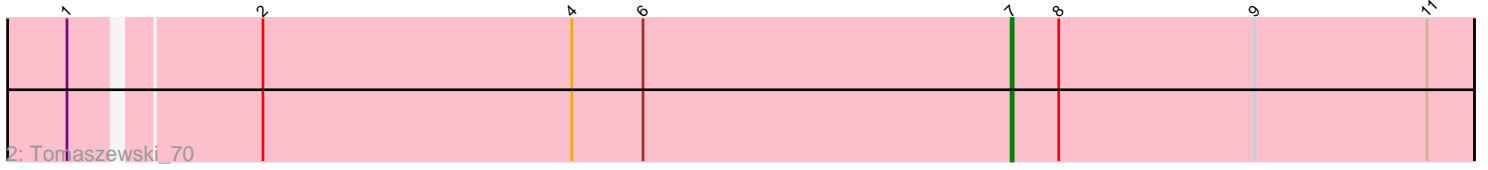
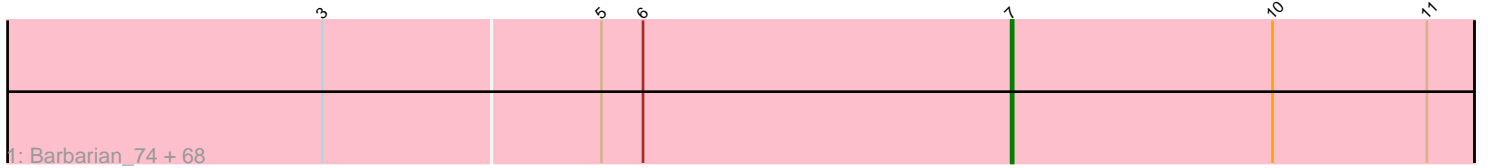


Pham 820



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 820 Report

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

Pham number 820 has 130 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Barbarian_74, Hoonter_78, Marshmallow_73, Mindy_74, Myrale_75, Flypotenuse_71, Manda_76, Daikon_77, TBrady12_78, Easy2Say_76, OrionPax_74, SophKB_72, ShamWow_75, Teaspoon_76, Kostya_75, Amao_75, Cactus_78, NelitzaMV_73, Glexan_74, Adnama_79, Miniwave_70, SirDuracell_74, TeardropMSU_71, AmericanBeauty_82, Pat3_73, Sotrice96_76, GoldenSpark_79, DrDrey_75, IHOP_73, Cookies_72, GooberAzure_78, Harella_75, Icee_76, Goldilocks_78, Toto_73, ChotaBhai_75, Pharsalus_72, Dusk_72, Balomoji_75, Gator_73, Command613_77, Kanye_72, CrystalP_74, BaboJay_72, Moldemort_78, Gage_77, Tarkin_74, Kimchi_79, BadStone_72, Argent26_79, Asriel_74, Henry_73, ABCat_72, Nimrod_76, Phaja_73, DoctorDiddles_74, Bask21_75, BilboSwaggins_74, Holt_80, Wiggin_77, Tucu_76, StolenFromERC_78, Traaww1_71, Qualification_76, Paperbeatsrock_74, Gemini_80, Stank_78, StellaBean_73, ShereKhan_74
- Track 2 : Tomaszewski_70
- Track 3 : Dumbo_75, Thresher_77, Lilac_77, Ukulele_70, Filch_76, Phaux_77, Highbury_74, Pumpkin_78, xkcd_78, Eureka_73, Czyszczonek1_76, Mosby_71, Lilizi_76, Youngblood_78, Hopey_75, Elph10_75, MPhalcon_76, Sassay_70, Murphy_75, Terminus_78, Inca_72, Bench_78, Saints25_74, Stark_76, Phrux_72, PhatBacter_79, Elite2014_74, BugsBunny_75, Misfit_76, Maxxinista_77, Cjw1_75, Murica_78, ChosenOne_75, Emmina_75, HufflyPuff_78, Simpliphy_74, Goku_73, Policronamos_79, Lilpickle_74, MISSy_76, Palpatine_77, RiverMonster_75, Bruin_72, Xandras_74, HanKaySha_75, Willez_70, Contagion_71, Porky_74, MadamMonkfish_75
- Track 4 : Rimmer_76, Buck_76, Petra64142_79
- Track 5 : YassJohnny_72
- Track 6 : Nala_77, FireRed_79
- Track 7 : NoSleep_76
- Track 8 : BigBubba_75, Rakim_76
- Track 9 : 244_76, JeTaime_75

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

The start number called the most often in the published annotations is 7, it was called in 121 of the 122 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_76, ABCat_72, Adnama_79, Amao_75, AmericanBeauty_82, Argent26_79, Asriel_74, BaboJay_72, BadStone_72, Balomoji_75, Barbarian_74, Bask21_75, Bench_78, BigBubba_75, BilboSwaggins_74, Bruin_72, Buck_76, BugsBunny_75, Cactus_78, ChosenOne_75, ChotaBhai_75, Cjw1_75, Command613_77, Contagion_71, Cookies_72, CrystalP_74, Czystoczon1_76, Daikon_77, DoctorDiddles_74, DrDrey_75, Dumbo_75, Dusk_72, Easy2Say_76, Elite2014_74, Elph10_75, Emmina_75, Eureka_73, Filch_76, FireRed_79, Flypotenuse_71, Gage_77, Gator_73, Gemini_80, Glexan_74, Goku_73, GoldenSpark_79, Goldilocks_78, GooberAzure_78, HanKaySha_75, Harella_75, Henry_73, Highbury_74, Holt_80, Hoonter_78, Hopey_75, HufflyPuff_78, IHOP_73, Icee_76, Inca_72, JeTaime_75, Kanye_72, Kimchi_79, Kostya_75, Lilac_77, Lilizi_76, Lilpickle_74, MISSy_76, MPhalcon_76, MadamMonkfish_75, Manda_76, Marshmallow_73, Maxxinista_77, Mindy_74, Miniwave_70, Misfit_76, Moldemort_78, Mosby_71, Murica_78, Murphy_75, Myrale_75, Nala_77, NelitzaMV_73, Nimrod_76, NoSleep_76, OrionPax_74, Palpatine_77, Paperbeatsrock_74, Pat3_73, Petra64142_79, Phaja_73, Pharsalus_72, PhatBacter_79, Phaux_77, Phrux_72, Policronamos_79, Porky_74, Pumpkin_78, Quallification_76, Rakim_76, Rimmer_76, RiverMonster_75, Saints25_74, Sassay_70, ShamWow_75, ShereKhan_74, Simpliphy_74, SirDuracell_74, SophKB_72, Sotrice96_76, Stank_78, Stark_76, StellaBean_73, StolenFromERC_78, TBrady12_78, Tarkin_74, TeardropMSU_71, Teaspoon_76, Terminus_78, Thresher_77, Tomaszewski_70, Toto_73, Traaww1_71, Tuco_76, Ukulele_70, Wiggin_77, Willez_70, Xandras_74, Youngblood_78, xkcd_78,

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

- YassJohnny_72,

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

-

Summary by start number:

Start 7:

- Found in 130 of 130 (100.0%) of genes in pham
- Manual Annotations of this start: 121 of 122
- Called 99.2% of time when present
- Phage (with cluster) where this start called: 244_76 (E), ABCat_72 (E), Adnama_79 (E), Amao_75 (E), AmericanBeauty_82 (E), Argent26_79 (E), Asriel_74 (E), BaboJay_72 (E), BadStone_72 (E), Balomoji_75 (E), Barbarian_74 (E), Bask21_75 (E), Bench_78 (E), BigBubba_75 (E), BilboSwaggins_74 (E), Bruin_72 (E), Buck_76 (E), BugsBunny_75 (E), Cactus_78 (E), ChosenOne_75 (E), ChotaBhai_75 (E), Cjw1_75 (E), Command613_77 (E), Contagion_71 (E), Cookies_72 (E), CrystalP_74 (E), Czystoczon1_76 (E), Daikon_77 (E), DoctorDiddles_74 (E), DrDrey_75 (E), Dumbo_75 (E), Dusk_72 (E), Easy2Say_76 (E), Elite2014_74 (E), Elph10_75 (E), Emmina_75 (E), Eureka_73 (E), Filch_76 (E), FireRed_79 (E), Flypotenuse_71 (E), Gage_77 (E), Gator_73 (E), Gemini_80 (E), Glexan_74 (E), Goku_73 (E), GoldenSpark_79 (E), Goldilocks_78 (E), GooberAzure_78 (E), HanKaySha_75 (E), Harella_75 (E), Henry_73 (E), Highbury_74 (E), Holt_80 (E), Hoonter_78 (E), Hopey_75 (E), HufflyPuff_78 (E), IHOP_73 (E), Icee_76 (E), Inca_72 (E), JeTaime_75 (E), Kanye_72 (E), Kimchi_79 (E), Kostya_75 (E), Lilac_77 (E), Lilizi_76 (E), Lilpickle_74 (E), MISSy_76 (E), MPhalcon_76 (E), MadamMonkfish_75 (E), Manda_76 (E), Marshmallow_73 (E), Maxxinista_77 (E), Mindy_74 (E), Miniwave_70 (E), Misfit_76 (E), Moldemort_78 (E), Mosby_71 (E), Murica_78 (E), Murphy_75 (E),

Myrale_75 (E), Nala_77 (E), NelitzaMV_73 (E), Nimrod_76 (E), NoSleep_76 (E), OrionPax_74 (E), Palpatine_77 (E), Paperbeatsrock_74 (E), Pat3_73 (E), Petra64142_79 (E), Phaja_73 (E), Pharsalus_72 (E), PhatBacter_79 (E), Phaux_77 (E), Phrux_72 (E), Policronamos_79 (E), Porky_74 (E), Pumpkin_78 (E), Quallification_76 (E), Rakim_76 (E), Rimmer_76 (E), RiverMonster_75 (E), Saints25_74 (E), Sassay_70 (E), ShamWow_75 (E), ShereKhan_74 (E), Simpliphy_74 (E), SirDuracell_74 (E), SophKB_72 (E), Sotrice96_76 (E), Stank_78 (E), Stark_76 (E), StellaBean_73 (E), StolenFromERC_78 (E), TBrady12_78 (E), Tarkin_74 (E), TeardropMSU_71 (E), Teaspoon_76 (E), Terminus_78 (E), Thresher_77 (E), Tomaszewski_70 (E), Toto_73 (E), Traaww1_71 (E), Tuco_76 (E), Ukulele_70 (E), Wiggin_77 (E), Willez_70 (E), Xandras_74 (E), Youngblood_78 (E), xkcd_78 (E),

Start 8:

- Found in 2 of 130 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 122
- Called 50.0% of time when present
- Phage (with cluster) where this start called: YassJohnny_72 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

- Start number 7 was manually annotated 121 times for cluster E.
- Start number 8 was manually annotated 1 time for cluster E.

Gene Information:

Gene: 244_76 Start: 47969, Stop: 48202, Start Num: 7

Candidate Starts for 244_76:

(3, 47624), (5, 47762), (6, 47783), (Start: 7 @47969 has 121 MA's), (10, 48101), (11, 48179),

Gene: ABCat_72 Start: 48322, Stop: 48555, Start Num: 7

Candidate Starts for ABCat_72:

(3, 47977), (5, 48115), (6, 48136), (Start: 7 @48322 has 121 MA's), (10, 48454), (11, 48532),

Gene: Adnama_79 Start: 48348, Stop: 48581, Start Num: 7

Candidate Starts for Adnama_79:

(3, 48003), (5, 48141), (6, 48162), (Start: 7 @48348 has 121 MA's), (10, 48480), (11, 48558),

Gene: Amao_75 Start: 47742, Stop: 47975, Start Num: 7

Candidate Starts for Amao_75:

(3, 47397), (5, 47535), (6, 47556), (Start: 7 @47742 has 121 MA's), (10, 47874), (11, 47952),

Gene: AmericanBeauty_82 Start: 48491, Stop: 48724, Start Num: 7

Candidate Starts for AmericanBeauty_82:

(3, 48146), (5, 48284), (6, 48305), (Start: 7 @48491 has 121 MA's), (10, 48623), (11, 48701),

Gene: Argent26_79 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for Argent26_79:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: Asriel_74 Start: 46685, Stop: 46918, Start Num: 7

Candidate Starts for Asriel_74:

(3, 46340), (5, 46478), (6, 46499), (Start: 7 @46685 has 121 MA's), (10, 46817), (11, 46895),

Gene: BaboJay_72 Start: 47522, Stop: 47755, Start Num: 7

Candidate Starts for BaboJay_72:

(3, 47177), (5, 47315), (6, 47336), (Start: 7 @47522 has 121 MA's), (10, 47654), (11, 47732),

Gene: BadStone_72 Start: 47891, Stop: 48124, Start Num: 7

Candidate Starts for BadStone_72:

(3, 47546), (5, 47684), (6, 47705), (Start: 7 @47891 has 121 MA's), (10, 48023), (11, 48101),

Gene: Balomoji_75 Start: 48452, Stop: 48685, Start Num: 7

Candidate Starts for Balomoji_75:

(3, 48107), (5, 48245), (6, 48266), (Start: 7 @48452 has 121 MA's), (10, 48584), (11, 48662),

Gene: Barbarian_74 Start: 46685, Stop: 46918, Start Num: 7

Candidate Starts for Barbarian_74:

(3, 46340), (5, 46478), (6, 46499), (Start: 7 @46685 has 121 MA's), (10, 46817), (11, 46895),

Gene: Bask21_75 Start: 47305, Stop: 47538, Start Num: 7

Candidate Starts for Bask21_75:

(3, 46960), (5, 47098), (6, 47119), (Start: 7 @47305 has 121 MA's), (10, 47437), (11, 47515),

Gene: Bench_78 Start: 47989, Stop: 48222, Start Num: 7

Candidate Starts for Bench_78:

(3, 47644), (5, 47782), (6, 47803), (Start: 7 @47989 has 121 MA's), (10, 48121), (11, 48199),

Gene: BigBubba_75 Start: 47701, Stop: 47934, Start Num: 7

Candidate Starts for BigBubba_75:

(3, 47356), (5, 47494), (6, 47515), (Start: 7 @47701 has 121 MA's), (10, 47833), (11, 47911),

Gene: BilboSwaggins_74 Start: 48330, Stop: 48563, Start Num: 7

Candidate Starts for BilboSwaggins_74:

(3, 47985), (5, 48123), (6, 48144), (Start: 7 @48330 has 121 MA's), (10, 48462), (11, 48540),

Gene: Bruin_72 Start: 46865, Stop: 47098, Start Num: 7

Candidate Starts for Bruin_72:

(3, 46520), (5, 46658), (6, 46679), (Start: 7 @46865 has 121 MA's), (10, 46997), (11, 47075),

Gene: Buck_76 Start: 48570, Stop: 48803, Start Num: 7

Candidate Starts for Buck_76:

(3, 48225), (5, 48363), (6, 48384), (Start: 7 @48570 has 121 MA's), (10, 48702), (11, 48780),

Gene: BugsBunny_75 Start: 48397, Stop: 48630, Start Num: 7

Candidate Starts for BugsBunny_75:

(3, 48052), (5, 48190), (6, 48211), (Start: 7 @48397 has 121 MA's), (10, 48529), (11, 48607),

Gene: Cactus_78 Start: 47346, Stop: 47579, Start Num: 7

Candidate Starts for Cactus_78:

(3, 47001), (5, 47139), (6, 47160), (Start: 7 @47346 has 121 MA's), (10, 47478), (11, 47556),

Gene: ChosenOne_75 Start: 47346, Stop: 47579, Start Num: 7

Candidate Starts for ChosenOne_75:

(3, 47001), (5, 47139), (6, 47160), (Start: 7 @47346 has 121 MA's), (10, 47478), (11, 47556),

Gene: ChotaBhai_75 Start: 47670, Stop: 47903, Start Num: 7

Candidate Starts for ChotaBhai_75:

(3, 47325), (5, 47463), (6, 47484), (Start: 7 @47670 has 121 MA's), (10, 47802), (11, 47880),

Gene: Cjw1_75 Start: 49043, Stop: 49276, Start Num: 7

Candidate Starts for Cjw1_75:

(3, 48698), (5, 48836), (6, 48857), (Start: 7 @49043 has 121 MA's), (10, 49175), (11, 49253),

Gene: Command613_77 Start: 48385, Stop: 48618, Start Num: 7

Candidate Starts for Command613_77:

(3, 48040), (5, 48178), (6, 48199), (Start: 7 @48385 has 121 MA's), (10, 48517), (11, 48595),

Gene: Contagion_71 Start: 47146, Stop: 47379, Start Num: 7

Candidate Starts for Contagion_71:

(3, 46801), (5, 46939), (6, 46960), (Start: 7 @47146 has 121 MA's), (10, 47278), (11, 47356),

Gene: Cookies_72 Start: 47527, Stop: 47760, Start Num: 7

Candidate Starts for Cookies_72:

(3, 47182), (5, 47320), (6, 47341), (Start: 7 @47527 has 121 MA's), (10, 47659), (11, 47737),

Gene: CrystalP_74 Start: 48330, Stop: 48563, Start Num: 7

Candidate Starts for CrystalP_74:

(3, 47985), (5, 48123), (6, 48144), (Start: 7 @48330 has 121 MA's), (10, 48462), (11, 48540),

Gene: Czyszczone1_76 Start: 47852, Stop: 48085, Start Num: 7

Candidate Starts for Czyszczone1_76:

(3, 47507), (5, 47645), (6, 47666), (Start: 7 @47852 has 121 MA's), (10, 47984), (11, 48062),

Gene: Daikon_77 Start: 48473, Stop: 48706, Start Num: 7

Candidate Starts for Daikon_77:

(3, 48128), (5, 48266), (6, 48287), (Start: 7 @48473 has 121 MA's), (10, 48605), (11, 48683),

Gene: DoctorDiddles_74 Start: 47714, Stop: 47947, Start Num: 7

Candidate Starts for DoctorDiddles_74:

(3, 47369), (5, 47507), (6, 47528), (Start: 7 @47714 has 121 MA's), (10, 47846), (11, 47924),

Gene: DrDrey_75 Start: 48771, Stop: 49004, Start Num: 7

Candidate Starts for DrDrey_75:

(3, 48426), (5, 48564), (6, 48585), (Start: 7 @48771 has 121 MA's), (10, 48903), (11, 48981),

Gene: Dumbo_75 Start: 47251, Stop: 47484, Start Num: 7

Candidate Starts for Dumbo_75:

(3, 46906), (5, 47044), (6, 47065), (Start: 7 @47251 has 121 MA's), (10, 47383), (11, 47461),

Gene: Dusk_72 Start: 47551, Stop: 47784, Start Num: 7

Candidate Starts for Dusk_72:

(3, 47206), (5, 47344), (6, 47365), (Start: 7 @47551 has 121 MA's), (10, 47683), (11, 47761),

Gene: Easy2Say_76 Start: 48795, Stop: 49028, Start Num: 7

Candidate Starts for Easy2Say_76:

(3, 48450), (5, 48588), (6, 48609), (Start: 7 @48795 has 121 MA's), (10, 48927), (11, 49005),

Gene: Elite2014_74 Start: 47345, Stop: 47578, Start Num: 7

Candidate Starts for Elite2014_74:

(3, 47000), (5, 47138), (6, 47159), (Start: 7 @47345 has 121 MA's), (10, 47477), (11, 47555),

Gene: Elph10_75 Start: 47350, Stop: 47583, Start Num: 7

Candidate Starts for Elph10_75:

(3, 47005), (5, 47143), (6, 47164), (Start: 7 @47350 has 121 MA's), (10, 47482), (11, 47560),

Gene: Emmina_75 Start: 47252, Stop: 47485, Start Num: 7

Candidate Starts for Emmina_75:

(3, 46907), (5, 47045), (6, 47066), (Start: 7 @47252 has 121 MA's), (10, 47384), (11, 47462),

Gene: Eureka_73 Start: 47816, Stop: 48049, Start Num: 7

Candidate Starts for Eureka_73:

(3, 47471), (5, 47609), (6, 47630), (Start: 7 @47816 has 121 MA's), (10, 47948), (11, 48026),

Gene: Filch_76 Start: 47277, Stop: 47510, Start Num: 7

Candidate Starts for Filch_76:

(3, 46932), (5, 47070), (6, 47091), (Start: 7 @47277 has 121 MA's), (10, 47409), (11, 47487),

Gene: FireRed_79 Start: 48839, Stop: 49072, Start Num: 7

Candidate Starts for FireRed_79:

(3, 48494), (5, 48632), (6, 48653), (Start: 7 @48839 has 121 MA's), (10, 48971), (11, 49049),

Gene: Flypotenuse_71 Start: 47336, Stop: 47569, Start Num: 7

Candidate Starts for Flypotenuse_71:

(3, 46991), (5, 47129), (6, 47150), (Start: 7 @47336 has 121 MA's), (10, 47468), (11, 47546),

Gene: Gage_77 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for Gage_77:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: Gator_73 Start: 48182, Stop: 48415, Start Num: 7

Candidate Starts for Gator_73:

(3, 47837), (5, 47975), (6, 47996), (Start: 7 @48182 has 121 MA's), (10, 48314), (11, 48392),

Gene: Gemini_80 Start: 48646, Stop: 48879, Start Num: 7

Candidate Starts for Gemini_80:

(3, 48301), (5, 48439), (6, 48460), (Start: 7 @48646 has 121 MA's), (10, 48778), (11, 48856),

Gene: Glexan_74 Start: 48466, Stop: 48699, Start Num: 7

Candidate Starts for Glexan_74:

(3, 48121), (5, 48259), (6, 48280), (Start: 7 @48466 has 121 MA's), (10, 48598), (11, 48676),

Gene: Goku_73 Start: 47545, Stop: 47778, Start Num: 7

Candidate Starts for Goku_73:

(3, 47200), (5, 47338), (6, 47359), (Start: 7 @47545 has 121 MA's), (10, 47677), (11, 47755),

Gene: GoldenSpark_79 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for GoldenSpark_79:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: Goldilocks_78 Start: 47627, Stop: 47860, Start Num: 7

Candidate Starts for Goldilocks_78:

(3, 47282), (5, 47420), (6, 47441), (Start: 7 @47627 has 121 MA's), (10, 47759), (11, 47837),

Gene: GooberAzure_78 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for GooberAzure_78:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: HanKaySha_75 Start: 47430, Stop: 47663, Start Num: 7

Candidate Starts for HanKaySha_75:

(3, 47085), (5, 47223), (6, 47244), (Start: 7 @47430 has 121 MA's), (10, 47562), (11, 47640),

Gene: Harella_75 Start: 48982, Stop: 49215, Start Num: 7

Candidate Starts for Harella_75:

(3, 48637), (5, 48775), (6, 48796), (Start: 7 @48982 has 121 MA's), (10, 49114), (11, 49192),

Gene: Henry_73 Start: 47770, Stop: 48003, Start Num: 7

Candidate Starts for Henry_73:

(3, 47425), (5, 47563), (6, 47584), (Start: 7 @47770 has 121 MA's), (10, 47902), (11, 47980),

Gene: Highbury_74 Start: 47418, Stop: 47651, Start Num: 7

Candidate Starts for Highbury_74:

(3, 47073), (5, 47211), (6, 47232), (Start: 7 @47418 has 121 MA's), (10, 47550), (11, 47628),

Gene: Holt_80 Start: 48543, Stop: 48776, Start Num: 7

Candidate Starts for Holt_80:

(3, 48198), (5, 48336), (6, 48357), (Start: 7 @48543 has 121 MA's), (10, 48675), (11, 48753),

Gene: Hoonter_78 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for Hoonter_78:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: Hopey_75 Start: 47962, Stop: 48195, Start Num: 7

Candidate Starts for Hopey_75:

(3, 47617), (5, 47755), (6, 47776), (Start: 7 @47962 has 121 MA's), (10, 48094), (11, 48172),

Gene: HufflyPuff_78 Start: 48795, Stop: 49028, Start Num: 7

Candidate Starts for HufflyPuff_78:

(3, 48450), (5, 48588), (6, 48609), (Start: 7 @48795 has 121 MA's), (10, 48927), (11, 49005),

Gene: IHOP_73 Start: 47894, Stop: 48127, Start Num: 7

Candidate Starts for IHOP_73:

(3, 47549), (5, 47687), (6, 47708), (Start: 7 @47894 has 121 MA's), (10, 48026), (11, 48104),

Gene: Icee_76 Start: 47793, Stop: 48026, Start Num: 7

Candidate Starts for Icee_76:

(3, 47448), (5, 47586), (6, 47607), (Start: 7 @47793 has 121 MA's), (10, 47925), (11, 48003),

Gene: Inca_72 Start: 46419, Stop: 46652, Start Num: 7

Candidate Starts for Inca_72:

(3, 46074), (5, 46212), (6, 46233), (Start: 7 @46419 has 121 MA's), (10, 46551), (11, 46629),

Gene: JeTaime_75 Start: 48611, Stop: 48844, Start Num: 7

Candidate Starts for JeTaime_75:

(3, 48266), (5, 48404), (6, 48425), (Start: 7 @48611 has 121 MA's), (10, 48743), (11, 48821),

Gene: Kanye_72 Start: 47475, Stop: 47708, Start Num: 7

Candidate Starts for Kanye_72:

(3, 47130), (5, 47268), (6, 47289), (Start: 7 @47475 has 121 MA's), (10, 47607), (11, 47685),

Gene: Kimchi_79 Start: 48132, Stop: 48365, Start Num: 7

Candidate Starts for Kimchi_79:

(3, 47787), (5, 47925), (6, 47946), (Start: 7 @48132 has 121 MA's), (10, 48264), (11, 48342),

Gene: Kostya_75 Start: 47993, Stop: 48226, Start Num: 7

Candidate Starts for Kostya_75:

(3, 47648), (5, 47786), (6, 47807), (Start: 7 @47993 has 121 MA's), (10, 48125), (11, 48203),

Gene: Lilac_77 Start: 47747, Stop: 47980, Start Num: 7

Candidate Starts for Lilac_77:

(3, 47402), (5, 47540), (6, 47561), (Start: 7 @47747 has 121 MA's), (10, 47879), (11, 47957),

Gene: Lilizi_76 Start: 47460, Stop: 47693, Start Num: 7

Candidate Starts for Lilizi_76:

(3, 47115), (5, 47253), (6, 47274), (Start: 7 @47460 has 121 MA's), (10, 47592), (11, 47670),

Gene: Lilpickle_74 Start: 47345, Stop: 47578, Start Num: 7

Candidate Starts for Lilpickle_74:

(3, 47000), (5, 47138), (6, 47159), (Start: 7 @47345 has 121 MA's), (10, 47477), (11, 47555),

Gene: MISSy_76 Start: 47851, Stop: 48084, Start Num: 7

Candidate Starts for MISSy_76:

(3, 47506), (5, 47644), (6, 47665), (Start: 7 @47851 has 121 MA's), (10, 47983), (11, 48061),

Gene: MPhalcon_76 Start: 47844, Stop: 48077, Start Num: 7

Candidate Starts for MPhalcon_76:

(3, 47499), (5, 47637), (6, 47658), (Start: 7 @47844 has 121 MA's), (10, 47976), (11, 48054),

Gene: MadamMonkfish_75 Start: 47069, Stop: 47302, Start Num: 7

Candidate Starts for MadamMonkfish_75:

(3, 46724), (5, 46862), (6, 46883), (Start: 7 @47069 has 121 MA's), (10, 47201), (11, 47279),

Gene: Manda_76 Start: 48931, Stop: 49164, Start Num: 7

Candidate Starts for Manda_76:

(3, 48586), (5, 48724), (6, 48745), (Start: 7 @48931 has 121 MA's), (10, 49063), (11, 49141),

Gene: Marshmallow_73 Start: 48624, Stop: 48857, Start Num: 7

Candidate Starts for Marshmallow_73:

(3, 48279), (5, 48417), (6, 48438), (Start: 7 @48624 has 121 MA's), (10, 48756), (11, 48834),

Gene: Maxxinista_77 Start: 47720, Stop: 47953, Start Num: 7

Candidate Starts for Maxxinista_77:

(3, 47375), (5, 47513), (6, 47534), (Start: 7 @47720 has 121 MA's), (10, 47852), (11, 47930),

Gene: Mindy_74 Start: 46936, Stop: 47169, Start Num: 7

Candidate Starts for Mindy_74:

(3, 46591), (5, 46729), (6, 46750), (Start: 7 @46936 has 121 MA's), (10, 47068), (11, 47146),

Gene: Miniwave_70 Start: 47389, Stop: 47622, Start Num: 7

Candidate Starts for Miniwave_70:

(3, 47044), (5, 47182), (6, 47203), (Start: 7 @47389 has 121 MA's), (10, 47521), (11, 47599),

Gene: Misfit_76 Start: 48863, Stop: 49096, Start Num: 7

Candidate Starts for Misfit_76:

(3, 48518), (5, 48656), (6, 48677), (Start: 7 @48863 has 121 MA's), (10, 48995), (11, 49073),

Gene: Moldemort_78 Start: 47948, Stop: 48181, Start Num: 7

Candidate Starts for Moldemort_78:

(3, 47603), (5, 47741), (6, 47762), (Start: 7 @47948 has 121 MA's), (10, 48080), (11, 48158),

Gene: Mosby_71 Start: 47146, Stop: 47379, Start Num: 7

Candidate Starts for Mosby_71:

(3, 46801), (5, 46939), (6, 46960), (Start: 7 @47146 has 121 MA's), (10, 47278), (11, 47356),

Gene: Murica_78 Start: 48795, Stop: 49028, Start Num: 7

Candidate Starts for Murica_78:

(3, 48450), (5, 48588), (6, 48609), (Start: 7 @48795 has 121 MA's), (10, 48927), (11, 49005),

Gene: Murphy_75 Start: 48232, Stop: 48465, Start Num: 7

Candidate Starts for Murphy_75:

(3, 47887), (5, 48025), (6, 48046), (Start: 7 @48232 has 121 MA's), (10, 48364), (11, 48442),

Gene: Myrale_75 Start: 48489, Stop: 48722, Start Num: 7

Candidate Starts for Myrale_75:

(3, 48144), (5, 48282), (6, 48303), (Start: 7 @48489 has 121 MA's), (10, 48621), (11, 48699),

Gene: Nala_77 Start: 48353, Stop: 48586, Start Num: 7

Candidate Starts for Nala_77:

(3, 48008), (5, 48146), (6, 48167), (Start: 7 @48353 has 121 MA's), (10, 48485), (11, 48563),

Gene: NelitzaMV_73 Start: 47435, Stop: 47668, Start Num: 7

Candidate Starts for NelitzaMV_73:

(3, 47090), (5, 47228), (6, 47249), (Start: 7 @47435 has 121 MA's), (10, 47567), (11, 47645),

Gene: Nimrod_76 Start: 49056, Stop: 49289, Start Num: 7

Candidate Starts for Nimrod_76:

(3, 48711), (5, 48849), (6, 48870), (Start: 7 @49056 has 121 MA's), (10, 49188), (11, 49266),

Gene: NoSleep_76 Start: 47690, Stop: 47923, Start Num: 7

Candidate Starts for NoSleep_76:

(3, 47345), (6, 47504), (Start: 7 @47690 has 121 MA's), (10, 47822), (11, 47900),

Gene: OrionPax_74 Start: 47441, Stop: 47674, Start Num: 7

Candidate Starts for OrionPax_74:

(3, 47096), (5, 47234), (6, 47255), (Start: 7 @47441 has 121 MA's), (10, 47573), (11, 47651),

Gene: Palpatine_77 Start: 48822, Stop: 49055, Start Num: 7

Candidate Starts for Palpatine_77:

(3, 48477), (5, 48615), (6, 48636), (Start: 7 @48822 has 121 MA's), (10, 48954), (11, 49032),

Gene: Paperbeatsrock_74 Start: 48067, Stop: 48300, Start Num: 7

Candidate Starts for Paperbeatsrock_74:

(3, 47722), (5, 47860), (6, 47881), (Start: 7 @48067 has 121 MA's), (10, 48199), (11, 48277),

Gene: Pat3_73 Start: 46599, Stop: 46832, Start Num: 7

Candidate Starts for Pat3_73:

(3, 46254), (5, 46392), (6, 46413), (Start: 7 @46599 has 121 MA's), (10, 46731), (11, 46809),

Gene: Petra64142_79 Start: 49286, Stop: 49519, Start Num: 7

Candidate Starts for Petra64142_79:

(3, 48941), (5, 49079), (6, 49100), (Start: 7 @49286 has 121 MA's), (10, 49418), (11, 49496),

Gene: Phaja_73 Start: 47893, Stop: 48126, Start Num: 7

Candidate Starts for Phaja_73:

(3, 47548), (5, 47686), (6, 47707), (Start: 7 @47893 has 121 MA's), (10, 48025), (11, 48103),

Gene: Pharsalus_72 Start: 47867, Stop: 48100, Start Num: 7

Candidate Starts for Pharsalus_72:

(3, 47522), (5, 47660), (6, 47681), (Start: 7 @47867 has 121 MA's), (10, 47999), (11, 48077),

Gene: PhatBacter_79 Start: 48839, Stop: 49072, Start Num: 7

Candidate Starts for PhatBacter_79:

(3, 48494), (5, 48632), (6, 48653), (Start: 7 @48839 has 121 MA's), (10, 48971), (11, 49049),

Gene: Phaux_77 Start: 48834, Stop: 49067, Start Num: 7

Candidate Starts for Phaux_77:

(3, 48489), (5, 48627), (6, 48648), (Start: 7 @48834 has 121 MA's), (10, 48966), (11, 49044),

Gene: Phrux_72 Start: 47430, Stop: 47663, Start Num: 7

Candidate Starts for Phrux_72:

(3, 47085), (5, 47223), (6, 47244), (Start: 7 @47430 has 121 MA's), (10, 47562), (11, 47640),

Gene: Policronamos_79 Start: 48834, Stop: 49067, Start Num: 7

Candidate Starts for Policronamos_79:

(3, 48489), (5, 48627), (6, 48648), (Start: 7 @48834 has 121 MA's), (10, 48966), (11, 49044),

Gene: Porky_74 Start: 47260, Stop: 47493, Start Num: 7

Candidate Starts for Porky_74:

(3, 46915), (5, 47053), (6, 47074), (Start: 7 @47260 has 121 MA's), (10, 47392), (11, 47470),

Gene: Pumpkin_78 Start: 48488, Stop: 48721, Start Num: 7

Candidate Starts for Pumpkin_78:

(3, 48143), (5, 48281), (6, 48302), (Start: 7 @48488 has 121 MA's), (10, 48620), (11, 48698),

Gene: Quallification_76 Start: 48475, Stop: 48708, Start Num: 7

Candidate Starts for Quallification_76:

(3, 48130), (5, 48268), (6, 48289), (Start: 7 @48475 has 121 MA's), (10, 48607), (11, 48685),

Gene: Rakim_76 Start: 47944, Stop: 48177, Start Num: 7

Candidate Starts for Rakim_76:

(3, 47599), (5, 47737), (6, 47758), (Start: 7 @47944 has 121 MA's), (10, 48076), (11, 48154),

Gene: Rimmer_76 Start: 48180, Stop: 48413, Start Num: 7

Candidate Starts for Rimmer_76:

(3, 47835), (5, 47973), (6, 47994), (Start: 7 @48180 has 121 MA's), (10, 48312), (11, 48390),

Gene: RiverMonster_75 Start: 48008, Stop: 48241, Start Num: 7

Candidate Starts for RiverMonster_75:

(3, 47663), (5, 47801), (6, 47822), (Start: 7 @48008 has 121 MA's), (10, 48140), (11, 48218),

Gene: Saints25_74 Start: 47418, Stop: 47651, Start Num: 7

Candidate Starts for Saints25_74:

(3, 47073), (5, 47211), (6, 47232), (Start: 7 @47418 has 121 MA's), (10, 47550), (11, 47628),

Gene: Sassay_70 Start: 46108, Stop: 46341, Start Num: 7

Candidate Starts for Sassay_70:

(3, 45763), (5, 45901), (6, 45922), (Start: 7 @46108 has 121 MA's), (10, 46240), (11, 46318),

Gene: ShamWow_75 Start: 48330, Stop: 48563, Start Num: 7

Candidate Starts for ShamWow_75:

(3, 47985), (5, 48123), (6, 48144), (Start: 7 @48330 has 121 MA's), (10, 48462), (11, 48540),

Gene: ShereKhan_74 Start: 48399, Stop: 48632, Start Num: 7

Candidate Starts for ShereKhan_74:

(3, 48054), (5, 48192), (6, 48213), (Start: 7 @48399 has 121 MA's), (10, 48531), (11, 48609),

Gene: Simpliphy_74 Start: 47408, Stop: 47641, Start Num: 7

Candidate Starts for Simpliphy_74:

(3, 47063), (5, 47201), (6, 47222), (Start: 7 @47408 has 121 MA's), (10, 47540), (11, 47618),

Gene: SirDuracell_74 Start: 46694, Stop: 46927, Start Num: 7

Candidate Starts for SirDuracell_74:

(3, 46349), (5, 46487), (6, 46508), (Start: 7 @46694 has 121 MA's), (10, 46826), (11, 46904),

Gene: SophKB_72 Start: 47086, Stop: 47319, Start Num: 7

Candidate Starts for SophKB_72:

(3, 46741), (5, 46879), (6, 46900), (Start: 7 @47086 has 121 MA's), (10, 47218), (11, 47296),

Gene: Sotrice96_76 Start: 48089, Stop: 48322, Start Num: 7

Candidate Starts for Sotrice96_76:

(3, 47744), (5, 47882), (6, 47903), (Start: 7 @48089 has 121 MA's), (10, 48221), (11, 48299),

Gene: Stank_78 Start: 48347, Stop: 48580, Start Num: 7

Candidate Starts for Stank_78:

(3, 48002), (5, 48140), (6, 48161), (Start: 7 @48347 has 121 MA's), (10, 48479), (11, 48557),

Gene: Stark_76 Start: 47891, Stop: 48124, Start Num: 7

Candidate Starts for Stark_76:

(3, 47546), (5, 47684), (6, 47705), (Start: 7 @47891 has 121 MA's), (10, 48023), (11, 48101),

Gene: StellaBean_73 Start: 47654, Stop: 47887, Start Num: 7

Candidate Starts for StellaBean_73:

(3, 47309), (5, 47447), (6, 47468), (Start: 7 @47654 has 121 MA's), (10, 47786), (11, 47864),

Gene: StolenFromERC_78 Start: 48129, Stop: 48362, Start Num: 7

Candidate Starts for StolenFromERC_78:

(3, 47784), (5, 47922), (6, 47943), (Start: 7 @48129 has 121 MA's), (10, 48261), (11, 48339),

Gene: TBrady12_78 Start: 47828, Stop: 48061, Start Num: 7

Candidate Starts for TBrady12_78:

(3, 47483), (5, 47621), (6, 47642), (Start: 7 @47828 has 121 MA's), (10, 47960), (11, 48038),

Gene: Tarkin_74 Start: 48076, Stop: 48309, Start Num: 7

Candidate Starts for Tarkin_74:

(3, 47731), (5, 47869), (6, 47890), (Start: 7 @48076 has 121 MA's), (10, 48208), (11, 48286),

Gene: TeardropMSU_71 Start: 47076, Stop: 47309, Start Num: 7

Candidate Starts for TeardropMSU_71:

(3, 46731), (5, 46869), (6, 46890), (Start: 7 @47076 has 121 MA's), (10, 47208), (11, 47286),

Gene: Teaspoon_76 Start: 47970, Stop: 48203, Start Num: 7

Candidate Starts for Teaspoon_76:

(3, 47625), (5, 47763), (6, 47784), (Start: 7 @47970 has 121 MA's), (10, 48102), (11, 48180),

Gene: Terminus_78 Start: 48863, Stop: 49096, Start Num: 7

Candidate Starts for Terminus_78:

(3, 48518), (5, 48656), (6, 48677), (Start: 7 @48863 has 121 MA's), (10, 48995), (11, 49073),

Gene: Thresher_77 Start: 48950, Stop: 49183, Start Num: 7

Candidate Starts for Thresher_77:

(3, 48605), (5, 48743), (6, 48764), (Start: 7 @48950 has 121 MA's), (10, 49082), (11, 49160),

Gene: Tomaszewski_70 Start: 47239, Stop: 47472, Start Num: 7

Candidate Starts for Tomaszewski_70:

(1, 46774), (2, 46861), (4, 47017), (6, 47053), (Start: 7 @47239 has 121 MA's), (Start: 8 @47263 has 1 MA's), (9, 47362), (11, 47449),

Gene: Toto_73 Start: 48330, Stop: 48563, Start Num: 7

Candidate Starts for Toto_73:

(3, 47985), (5, 48123), (6, 48144), (Start: 7 @48330 has 121 MA's), (10, 48462), (11, 48540),

Gene: Traaww1_71 Start: 47514, Stop: 47747, Start Num: 7

Candidate Starts for Traaww1_71:

(3, 47169), (5, 47307), (6, 47328), (Start: 7 @47514 has 121 MA's), (10, 47646), (11, 47724),

Gene: Tuco_76 Start: 48838, Stop: 49071, Start Num: 7

Candidate Starts for Tuco_76:

(3, 48493), (5, 48631), (6, 48652), (Start: 7 @48838 has 121 MA's), (10, 48970), (11, 49048),

Gene: Ukulele_70 Start: 47221, Stop: 47454, Start Num: 7

Candidate Starts for Ukulele_70:

(3, 46876), (5, 47014), (6, 47035), (Start: 7 @47221 has 121 MA's), (10, 47353), (11, 47431),

Gene: Wiggin_77 Start: 47915, Stop: 48148, Start Num: 7

Candidate Starts for Wiggin_77:

(3, 47570), (5, 47708), (6, 47729), (Start: 7 @47915 has 121 MA's), (10, 48047), (11, 48125),

Gene: Willez_70 Start: 46108, Stop: 46341, Start Num: 7

Candidate Starts for Willez_70:

(3, 45763), (5, 45901), (6, 45922), (Start: 7 @46108 has 121 MA's), (10, 46240), (11, 46318),

Gene: Xandras_74 Start: 47323, Stop: 47556, Start Num: 7

Candidate Starts for Xandras_74:

(3, 46978), (5, 47116), (6, 47137), (Start: 7 @47323 has 121 MA's), (10, 47455), (11, 47533),

Gene: YassJohnny_72 Start: 47302, Stop: 47511, Start Num: 8

Candidate Starts for YassJohnny_72:

(1, 46813), (2, 46900), (4, 47056), (6, 47092), (Start: 7 @47278 has 121 MA's), (Start: 8 @47302 has 1 MA's), (9, 47401), (11, 47488),

Gene: Youngblood_78 Start: 48790, Stop: 49023, Start Num: 7

Candidate Starts for Youngblood_78:

(3, 48445), (5, 48583), (6, 48604), (Start: 7 @48790 has 121 MA's), (10, 48922), (11, 49000),

Gene: xkcd_78 Start: 48980, Stop: 49213, Start Num: 7

Candidate Starts for xkcd_78:

(3, 48635), (5, 48773), (6, 48794), (Start: 7 @48980 has 121 MA's), (10, 49112), (11, 49190),