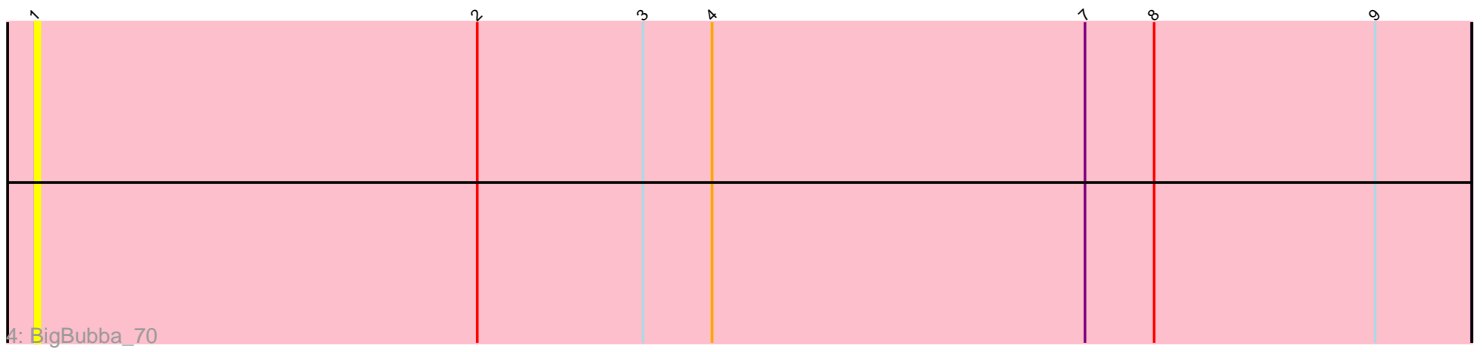
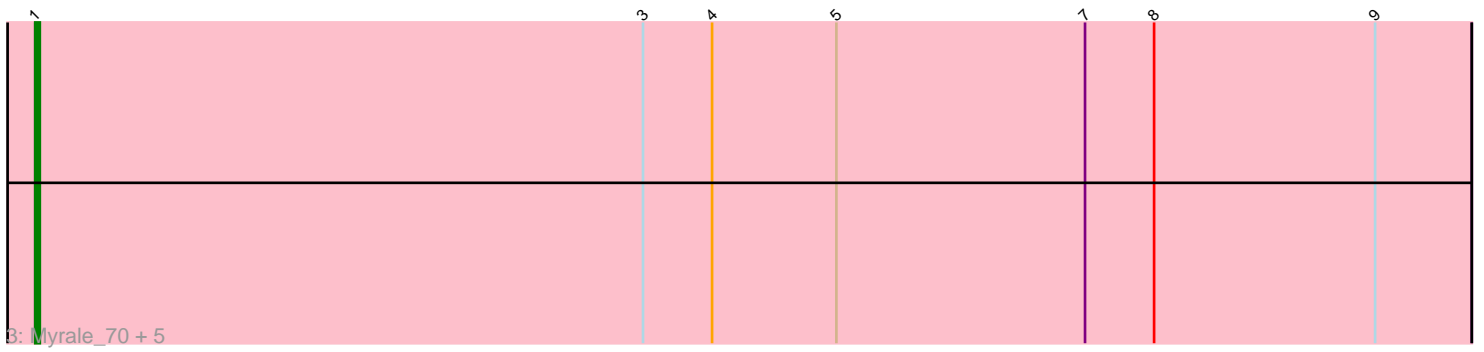
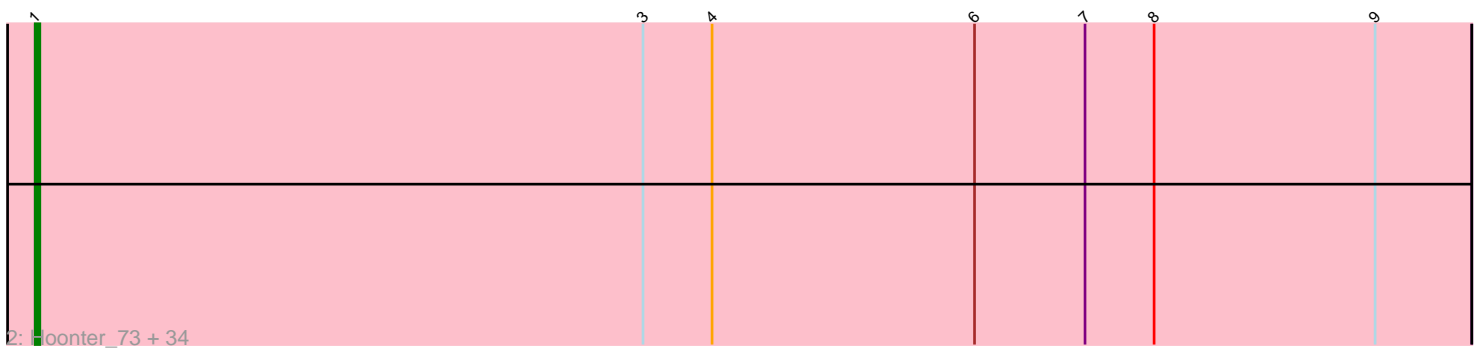
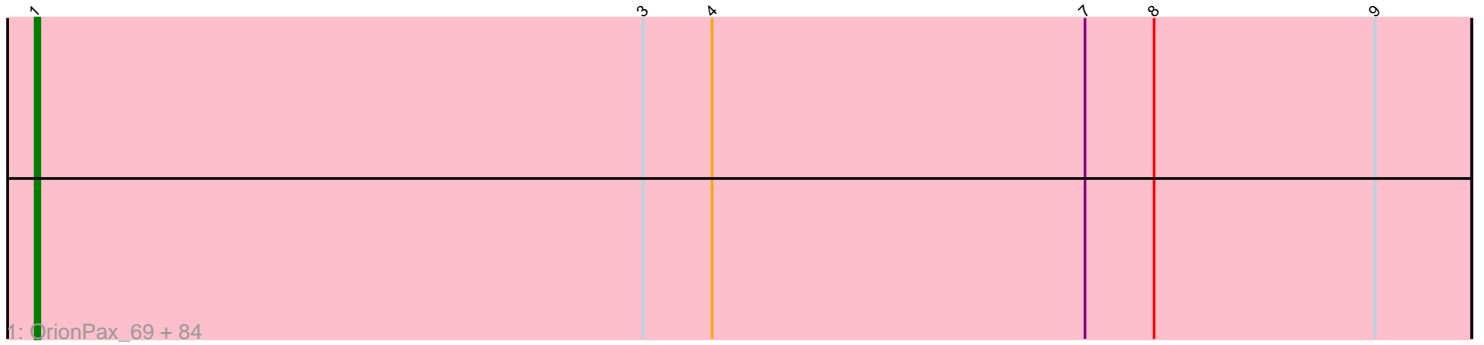


Pham 826



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 826 Report

This analysis was run 04/22/24 on database version 561.

Pham number 826 has 127 members, 11 are drafts.

Phages represented in each track:

- Track 1 : OrionPax_69, YassJohnny_67, Dumbo_70, Manda_70, TBrady12_73, Henry_68, NelitzaMV_68, Filch_71, StellaBean_66, Easy2Say_71, BilboSwaggins_69, Rimmer_71, Miniwave_65, Mindy_69, Traaww1_66, TeardropMSU_66, Buck_71, Phaux_72, Pat3_68, Pumpkin_73, Tomaszewski_65, Kostya_70, Amao_70, Ukulele_65, Cactus_73, Czyszczo1_71, Teaspoon_67, Adnama_74, Toto_68, Elph10_70, SophKB_67, Porky_69, Lilizi_71, Hopey_70, Thresher_72, Eureka_68, Glexan_69, Icee_71, Goldilocks_73, Harella_70, ChotaBhai_70, CrystalP_69, Murphy_70, Cjw1_70, Bench_73, Balomoji_70, Cookies_67, Command613_72, BaboJay_67, Daikon_72, Goku_68, PhatBacter_74, Stark_71, Inca_67, Pharsalus_67, Dusk_67, Maxxinsta_72, BadStone_67, JeTaime_70, Gator_68, Asriel_69, Lilac_72, Emmina_70, Moldemort_73, Phrux_67, Phaja_68, DoctorDiddles_69, Tarkin_69, SirDuracell_69, Simpliphy_69, Petra64142_74, Paperbeatsrock_69, Bask21_70, Wiggin_72, IHOP_68, RiverMonster_70, HanKaySha_70, Rakim_71, Tuco_71, Barbarian_69, ABCat_67, Flypotenuse_66, Sotrice96_71, ShamWow_70, Stank_74
- Track 2 : Hoonter_73, Highbury_69, NoSleep_71, xkcd_73, Nala_72, Sassay_65, GoldenSpark_74, GooberAzure_73, Youngblood_73, MPhalcon_71, AmericanBeauty_77, Terminus_73, Elite2014_69, Murica_73, Gemini_75, 244_71, Misfit_71, HuffyPuff_73, MISSy_71, Nimrod_71, ChosenOne_70, Gage_72, Kimchi_74, Bruin_67, Contagion_66, Argent26_74, FireRed_74, Saints25_69, StolenFromERC_73, Holt_75, Lilpickle_69, Mosby_66, MadamMonkfish_70, Willez_65, Xandras_69
- Track 3 : Myrale_70, Marshmallow_68, Kanye_67, DrDrey_70, Quallification_71, ShereKhan_69
- Track 4 : BigBubba_70

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 116 of the 116 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_71, ABCat_67, Adnama_74, Amao_70, AmericanBeauty_77, Argent26_74, Asriel_69, BaboJay_67, BadStone_67, Balomoji_70, Barbarian_69, Bask21_70,

Bench_73, BigBubba_70, BilboSwaggins_69, Bruin_67, Buck_71, Cactus_73, ChosenOne_70, ChotaBhai_70, Cjw1_70, Command613_72, Contagion_66, Cookies_67, CrystalP_69, Czyszczo1_71, Daikon_72, DoctorDiddles_69, DrDrey_70, Dumbo_70, Dusk_67, Easy2Say_71, Elite2014_69, Elph10_70, Emmina_70, Eureka_68, Filch_71, FireRed_74, Flypotenuse_66, Gage_72, Gator_68, Gemini_75, Glexan_69, Goku_68, GoldenSpark_74, Goldilocks_73, GooberAzure_73, HanKaySha_70, Harella_70, Henry_68, Highbury_69, Holt_75, Hoonter_73, Hopey_70, HufflyPuff_73, IHOP_68, Icee_71, Inca_67, JeTaime_70, Kanye_67, Kimchi_74, Kostya_70, Lilac_72, Lilizi_71, Lilpickle_69, MISSy_71, MPhalcon_71, MadamMonkfish_70, Manda_70, Marshmallow_68, Maxxinista_72, Mindy_69, Miniwave_65, Misfit_71, Moldemort_73, Mosby_66, Murica_73, Murphy_70, Myrale_70, Nala_72, NelitzaMV_68, Nimrod_71, NoSleep_71, OrionPax_69, Paperbeatsrock_69, Pat3_68, Petra64142_74, Phaja_68, Pharsalus_67, PhatBacter_74, Phaux_72, Phrux_67, Porky_69, Pumpkin_73, Quallification_71, Rakim_71, Rimmer_71, RiverMonster_70, Saints25_69, Sassay_65, ShamWow_70, ShereKhan_69, Simpliphy_69, SirDuracell_69, SophKB_67, Sotrice96_71, Stank_74, Stark_71, StellaBean_66, StolenFromERC_73, TBrady12_73, Tarkin_69, TeardropMSU_66, Teaspoon_67, Terminus_73, Thresher_72, Tomaszewski_65, Toto_68, Traaww1_66, Tuco_71, Ukulele_65, Wiggin_72, Willez_65, Xandras_69, YassJohnny_67, Youngblood_73, xkcd_73,

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 127 of 127 (100.0%) of genes in pham
- Manual Annotations of this start: 116 of 116
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_71 (E), ABCat_67 (E), Adnama_74 (E), Amao_70 (E), AmericanBeauty_77 (E), Argent26_74 (E), Asriel_69 (E), BaboJay_67 (E), BadStone_67 (E), Balomoji_70 (E), Barbarian_69 (E), Bask21_70 (E), Bench_73 (E), BigBubba_70 (E), BilboSwaggins_69 (E), Bruin_67 (E), Buck_71 (E), Cactus_73 (E), ChosenOne_70 (E), ChotaBhai_70 (E), Cjw1_70 (E), Command613_72 (E), Contagion_66 (E), Cookies_67 (E), CrystalP_69 (E), Czyszczo1_71 (E), Daikon_72 (E), DoctorDiddles_69 (E), DrDrey_70 (E), Dumbo_70 (E), Dusk_67 (E), Easy2Say_71 (E), Elite2014_69 (E), Elph10_70 (E), Emmina_70 (E), Eureka_68 (E), Filch_71 (E), FireRed_74 (E), Flypotenuse_66 (E), Gage_72 (E), Gator_68 (E), Gemini_75 (E), Glexan_69 (E), Goku_68 (E), GoldenSpark_74 (E), Goldilocks_73 (E), GooberAzure_73 (E), HanKaySha_70 (E), Harella_70 (E), Henry_68 (E), Highbury_69 (E), Holt_75 (E), Hoonter_73 (E), Hopey_70 (E), HufflyPuff_73 (E), IHOP_68 (E), Icee_71 (E), Inca_67 (E), JeTaime_70 (E), Kanye_67 (E), Kimchi_74 (E), Kostya_70 (E), Lilac_72 (E), Lilizi_71 (E), Lilpickle_69 (E), MISSy_71 (E), MPhalcon_71 (E), MadamMonkfish_70 (E), Manda_70 (E), Marshmallow_68 (E), Maxxinista_72 (E), Mindy_69 (E), Miniwave_65 (E), Misfit_71 (E), Moldemort_73 (E), Mosby_66 (E), Murica_73 (E), Murphy_70 (E), Myrale_70 (E), Nala_72 (E), NelitzaMV_68 (E), Nimrod_71 (E), NoSleep_71 (E), OrionPax_69 (E), Paperbeatsrock_69 (E), Pat3_68 (E), Petra64142_74 (E), Phaja_68 (E), Pharsalus_67 (E), PhatBacter_74 (E), Phaux_72 (E), Phrux_67 (E), Porky_69

(E), Pumpkin_73 (E), Quallification_71 (E), Rakim_71 (E), Rimmer_71 (E), RiverMonster_70 (E), Saints25_69 (E), Sassay_65 (E), ShamWow_70 (E), ShereKhan_69 (E), Simpliphy_69 (E), SirDuracell_69 (E), SophKB_67 (E), Sotrice96_71 (E), Stank_74 (E), Stark_71 (E), StellaBean_66 (E), StolenFromERC_73 (E), TBrady12_73 (E), Tarkin_69 (E), TeardropMSU_66 (E), Teaspoon_67 (E), Terminus_73 (E), Thresher_72 (E), Tomaszewski_65 (E), Toto_68 (E), Traaww1_66 (E), Tuco_71 (E), Ukulele_65 (E), Wiggin_72 (E), Willez_65 (E), Xandras_69 (E), YassJohnny_67 (E), Youngblood_73 (E), xkcd_73 (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 116 times for cluster E.

Gene Information:

Gene: 244_71 Start: 46276, Stop: 46587, Start Num: 1

Candidate Starts for 244_71:

(Start: 1 @46276 has 116 MA's), (3, 46408), (4, 46423), (6, 46480), (7, 46504), (8, 46519), (9, 46567),

Gene: ABCat_67 Start: 46623, Stop: 46934, Start Num: 1

Candidate Starts for ABCat_67:

(Start: 1 @46623 has 116 MA's), (3, 46755), (4, 46770), (7, 46851), (8, 46866), (9, 46914),

Gene: Adnama_74 Start: 46646, Stop: 46957, Start Num: 1

Candidate Starts for Adnama_74:

(Start: 1 @46646 has 116 MA's), (3, 46778), (4, 46793), (7, 46874), (8, 46889), (9, 46937),

Gene: Amao_70 Start: 46034, Stop: 46345, Start Num: 1

Candidate Starts for Amao_70:

(Start: 1 @46034 has 116 MA's), (3, 46166), (4, 46181), (7, 46262), (8, 46277), (9, 46325),

Gene: AmericanBeauty_77 Start: 46789, Stop: 47100, Start Num: 1

Candidate Starts for AmericanBeauty_77:

(Start: 1 @46789 has 116 MA's), (3, 46921), (4, 46936), (6, 46993), (7, 47017), (8, 47032), (9, 47080),

Gene: Argent26_74 Start: 46427, Stop: 46738, Start Num: 1

Candidate Starts for Argent26_74:

(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: Asriel_69 Start: 44983, Stop: 45294, Start Num: 1

Candidate Starts for Asriel_69:

(Start: 1 @44983 has 116 MA's), (3, 45115), (4, 45130), (7, 45211), (8, 45226), (9, 45274),

Gene: BaboJay_67 Start: 45820, Stop: 46131, Start Num: 1

Candidate Starts for BaboJay_67:

(Start: 1 @45820 has 116 MA's), (3, 45952), (4, 45967), (7, 46048), (8, 46063), (9, 46111),

Gene: BadStone_67 Start: 46192, Stop: 46503, Start Num: 1

Candidate Starts for BadStone_67:

(Start: 1 @46192 has 116 MA's), (3, 46324), (4, 46339), (7, 46420), (8, 46435), (9, 46483),

Gene: Balomoji_70 Start: 46753, Stop: 47064, Start Num: 1

Candidate Starts for Balomoji_70:

(Start: 1 @46753 has 116 MA's), (3, 46885), (4, 46900), (7, 46981), (8, 46996), (9, 47044),

Gene: Barbarian_69 Start: 44983, Stop: 45294, Start Num: 1

Candidate Starts for Barbarian_69:

(Start: 1 @44983 has 116 MA's), (3, 45115), (4, 45130), (7, 45211), (8, 45226), (9, 45274),

Gene: Bask21_70 Start: 45597, Stop: 45908, Start Num: 1

Candidate Starts for Bask21_70:

(Start: 1 @45597 has 116 MA's), (3, 45729), (4, 45744), (7, 45825), (8, 45840), (9, 45888),

Gene: Bench_73 Start: 46293, Stop: 46604, Start Num: 1

Candidate Starts for Bench_73:

(Start: 1 @46293 has 116 MA's), (3, 46425), (4, 46440), (7, 46521), (8, 46536), (9, 46584),

Gene: BigBubba_70 Start: 46002, Stop: 46313, Start Num: 1

Candidate Starts for BigBubba_70:

(Start: 1 @46002 has 116 MA's), (2, 46098), (3, 46134), (4, 46149), (7, 46230), (8, 46245), (9, 46293),

Gene: BilboSwaggins_69 Start: 46631, Stop: 46942, Start Num: 1

Candidate Starts for BilboSwaggins_69:

(Start: 1 @46631 has 116 MA's), (3, 46763), (4, 46778), (7, 46859), (8, 46874), (9, 46922),

Gene: Bruin_67 Start: 45169, Stop: 45480, Start Num: 1

Candidate Starts for Bruin_67:

(Start: 1 @45169 has 116 MA's), (3, 45301), (4, 45316), (6, 45373), (7, 45397), (8, 45412), (9, 45460),

Gene: Buck_71 Start: 46877, Stop: 47188, Start Num: 1

Candidate Starts for Buck_71:

(Start: 1 @46877 has 116 MA's), (3, 47009), (4, 47024), (7, 47105), (8, 47120), (9, 47168),

Gene: Cactus_73 Start: 45647, Stop: 45958, Start Num: 1

Candidate Starts for Cactus_73:

(Start: 1 @45647 has 116 MA's), (3, 45779), (4, 45794), (7, 45875), (8, 45890), (9, 45938),

Gene: ChosenOne_70 Start: 45650, Stop: 45961, Start Num: 1

Candidate Starts for ChosenOne_70:

(Start: 1 @45650 has 116 MA's), (3, 45782), (4, 45797), (6, 45854), (7, 45878), (8, 45893), (9, 45941),

Gene: ChotaBhai_70 Start: 45965, Stop: 46276, Start Num: 1

Candidate Starts for ChotaBhai_70:

(Start: 1 @45965 has 116 MA's), (3, 46097), (4, 46112), (7, 46193), (8, 46208), (9, 46256),

Gene: Cjw1_70 Start: 47347, Stop: 47658, Start Num: 1

Candidate Starts for Cjw1_70:

(Start: 1 @47347 has 116 MA's), (3, 47479), (4, 47494), (7, 47575), (8, 47590), (9, 47638),

Gene: Command613_72 Start: 46686, Stop: 46997, Start Num: 1

Candidate Starts for Command613_72:

(Start: 1 @46686 has 116 MA's), (3, 46818), (4, 46833), (7, 46914), (8, 46929), (9, 46977),

Gene: Contagion_66 Start: 45450, Stop: 45761, Start Num: 1

Candidate Starts for Contagion_66:

(Start: 1 @45450 has 116 MA's), (3, 45582), (4, 45597), (6, 45654), (7, 45678), (8, 45693), (9, 45741),

Gene: Cookies_67 Start: 45819, Stop: 46130, Start Num: 1

Candidate Starts for Cookies_67:

(Start: 1 @45819 has 116 MA's), (3, 45951), (4, 45966), (7, 46047), (8, 46062), (9, 46110),

Gene: CrystalP_69 Start: 46631, Stop: 46942, Start Num: 1

Candidate Starts for CrystalP_69:

(Start: 1 @46631 has 116 MA's), (3, 46763), (4, 46778), (7, 46859), (8, 46874), (9, 46922),

Gene: Czyszczone1_71 Start: 46156, Stop: 46467, Start Num: 1

Candidate Starts for Czyszczone1_71:

(Start: 1 @46156 has 116 MA's), (3, 46288), (4, 46303), (7, 46384), (8, 46399), (9, 46447),

Gene: Daikon_72 Start: 46774, Stop: 47085, Start Num: 1

Candidate Starts for Daikon_72:

(Start: 1 @46774 has 116 MA's), (3, 46906), (4, 46921), (7, 47002), (8, 47017), (9, 47065),

Gene: DoctorDiddles_69 Start: 46009, Stop: 46320, Start Num: 1

Candidate Starts for DoctorDiddles_69:

(Start: 1 @46009 has 116 MA's), (3, 46141), (4, 46156), (7, 46237), (8, 46252), (9, 46300),

Gene: DrDrey_70 Start: 47072, Stop: 47383, Start Num: 1

Candidate Starts for DrDrey_70:

(Start: 1 @47072 has 116 MA's), (3, 47204), (4, 47219), (5, 47246), (7, 47300), (8, 47315), (9, 47363),

Gene: Dumbo_70 Start: 45555, Stop: 45866, Start Num: 1

Candidate Starts for Dumbo_70:

(Start: 1 @45555 has 116 MA's), (3, 45687), (4, 45702), (7, 45783), (8, 45798), (9, 45846),

Gene: Dusk_67 Start: 45852, Stop: 46163, Start Num: 1

Candidate Starts for Dusk_67:

(Start: 1 @45852 has 116 MA's), (3, 45984), (4, 45999), (7, 46080), (8, 46095), (9, 46143),

Gene: Easy2Say_71 Start: 47093, Stop: 47404, Start Num: 1

Candidate Starts for Easy2Say_71:

(Start: 1 @47093 has 116 MA's), (3, 47225), (4, 47240), (7, 47321), (8, 47336), (9, 47384),

Gene: Elite2014_69 Start: 45649, Stop: 45960, Start Num: 1

Candidate Starts for Elite2014_69:

(Start: 1 @45649 has 116 MA's), (3, 45781), (4, 45796), (6, 45853), (7, 45877), (8, 45892), (9, 45940),

Gene: Elph10_70 Start: 45654, Stop: 45965, Start Num: 1

Candidate Starts for Elph10_70:

(Start: 1 @45654 has 116 MA's), (3, 45786), (4, 45801), (7, 45882), (8, 45897), (9, 45945),

Gene: Emmina_70 Start: 45556, Stop: 45867, Start Num: 1

Candidate Starts for Emmina_70:

(Start: 1 @45556 has 116 MA's), (3, 45688), (4, 45703), (7, 45784), (8, 45799), (9, 45847),

Gene: Eureka_68 Start: 46120, Stop: 46431, Start Num: 1

Candidate Starts for Eureka_68:

(Start: 1 @46120 has 116 MA's), (3, 46252), (4, 46267), (7, 46348), (8, 46363), (9, 46411),

Gene: Filch_71 Start: 45581, Stop: 45892, Start Num: 1

Candidate Starts for Filch_71:

(Start: 1 @45581 has 116 MA's), (3, 45713), (4, 45728), (7, 45809), (8, 45824), (9, 45872),

Gene: FireRed_74 Start: 47146, Stop: 47457, Start Num: 1

Candidate Starts for FireRed_74:

(Start: 1 @47146 has 116 MA's), (3, 47278), (4, 47293), (6, 47350), (7, 47374), (8, 47389), (9, 47437),

Gene: Flypotenuse_66 Start: 45637, Stop: 45948, Start Num: 1

Candidate Starts for Flypotenuse_66:

(Start: 1 @45637 has 116 MA's), (3, 45769), (4, 45784), (7, 45865), (8, 45880), (9, 45928),

Gene: Gage_72 Start: 46427, Stop: 46738, Start Num: 1

Candidate Starts for Gage_72:

(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: Gator_68 Start: 46483, Stop: 46794, Start Num: 1

Candidate Starts for Gator_68:

(Start: 1 @46483 has 116 MA's), (3, 46615), (4, 46630), (7, 46711), (8, 46726), (9, 46774),

Gene: Gemini_75 Start: 46944, Stop: 47255, Start Num: 1

Candidate Starts for Gemini_75:

(Start: 1 @46944 has 116 MA's), (3, 47076), (4, 47091), (6, 47148), (7, 47172), (8, 47187), (9, 47235),

Gene: Glexan_69 Start: 46767, Stop: 47078, Start Num: 1

Candidate Starts for Glexan_69:

(Start: 1 @46767 has 116 MA's), (3, 46899), (4, 46914), (7, 46995), (8, 47010), (9, 47058),

Gene: Goku_68 Start: 45849, Stop: 46160, Start Num: 1

Candidate Starts for Goku_68:

(Start: 1 @45849 has 116 MA's), (3, 45981), (4, 45996), (7, 46077), (8, 46092), (9, 46140),

Gene: GoldenSpark_74 Start: 46427, Stop: 46738, Start Num: 1

Candidate Starts for GoldenSpark_74:

(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: Goldilocks_73 Start: 45928, Stop: 46239, Start Num: 1

Candidate Starts for Goldilocks_73:

(Start: 1 @45928 has 116 MA's), (3, 46060), (4, 46075), (7, 46156), (8, 46171), (9, 46219),

Gene: GooberAzure_73 Start: 46427, Stop: 46738, Start Num: 1

Candidate Starts for GooberAzure_73:

(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: HanKaySha_70 Start: 45734, Stop: 46045, Start Num: 1

Candidate Starts for HanKaySha_70:

(Start: 1 @45734 has 116 MA's), (3, 45866), (4, 45881), (7, 45962), (8, 45977), (9, 46025),

Gene: Harella_70 Start: 47283, Stop: 47594, Start Num: 1
Candidate Starts for Harella_70:
(Start: 1 @47283 has 116 MA's), (3, 47415), (4, 47430), (7, 47511), (8, 47526), (9, 47574),

Gene: Henry_68 Start: 46071, Stop: 46382, Start Num: 1
Candidate Starts for Henry_68:
(Start: 1 @46071 has 116 MA's), (3, 46203), (4, 46218), (7, 46299), (8, 46314), (9, 46362),

Gene: Highbury_69 Start: 45722, Stop: 46033, Start Num: 1
Candidate Starts for Highbury_69:
(Start: 1 @45722 has 116 MA's), (3, 45854), (4, 45869), (6, 45926), (7, 45950), (8, 45965), (9, 46013),

Gene: Holt_75 Start: 46841, Stop: 47152, Start Num: 1
Candidate Starts for Holt_75:
(Start: 1 @46841 has 116 MA's), (3, 46973), (4, 46988), (6, 47045), (7, 47069), (8, 47084), (9, 47132),

Gene: Hoonter_73 Start: 46427, Stop: 46738, Start Num: 1
Candidate Starts for Hoonter_73:
(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: Hopecy_70 Start: 46266, Stop: 46577, Start Num: 1
Candidate Starts for Hopecy_70:
(Start: 1 @46266 has 116 MA's), (3, 46398), (4, 46413), (7, 46494), (8, 46509), (9, 46557),

Gene: HufflyPuff_73 Start: 47099, Stop: 47410, Start Num: 1
Candidate Starts for HufflyPuff_73:
(Start: 1 @47099 has 116 MA's), (3, 47231), (4, 47246), (6, 47303), (7, 47327), (8, 47342), (9, 47390),

Gene: IHOP_68 Start: 46195, Stop: 46506, Start Num: 1
Candidate Starts for IHOP_68:
(Start: 1 @46195 has 116 MA's), (3, 46327), (4, 46342), (7, 46423), (8, 46438), (9, 46486),

Gene: Icee_71 Start: 46094, Stop: 46405, Start Num: 1
Candidate Starts for Icee_71:
(Start: 1 @46094 has 116 MA's), (3, 46226), (4, 46241), (7, 46322), (8, 46337), (9, 46385),

Gene: Inca_67 Start: 44720, Stop: 45031, Start Num: 1
Candidate Starts for Inca_67:
(Start: 1 @44720 has 116 MA's), (3, 44852), (4, 44867), (7, 44948), (8, 44963), (9, 45011),

Gene: JeTaime_70 Start: 46918, Stop: 47229, Start Num: 1
Candidate Starts for JeTaime_70:
(Start: 1 @46918 has 116 MA's), (3, 47050), (4, 47065), (7, 47146), (8, 47161), (9, 47209),

Gene: Kanye_67 Start: 45776, Stop: 46087, Start Num: 1
Candidate Starts for Kanye_67:
(Start: 1 @45776 has 116 MA's), (3, 45908), (4, 45923), (5, 45950), (7, 46004), (8, 46019), (9, 46067),

Gene: Kimchi_74 Start: 46430, Stop: 46741, Start Num: 1
Candidate Starts for Kimchi_74:
(Start: 1 @46430 has 116 MA's), (3, 46562), (4, 46577), (6, 46634), (7, 46658), (8, 46673), (9, 46721),

Gene: Kostya_70 Start: 46294, Stop: 46605, Start Num: 1

Candidate Starts for Kostya_70:

(Start: 1 @46294 has 116 MA's), (3, 46426), (4, 46441), (7, 46522), (8, 46537), (9, 46585),

Gene: Lilac_72 Start: 46051, Stop: 46362, Start Num: 1

Candidate Starts for Lilac_72:

(Start: 1 @46051 has 116 MA's), (3, 46183), (4, 46198), (7, 46279), (8, 46294), (9, 46342),

Gene: Lilizi_71 Start: 45764, Stop: 46075, Start Num: 1

Candidate Starts for Lilizi_71:

(Start: 1 @45764 has 116 MA's), (3, 45896), (4, 45911), (7, 45992), (8, 46007), (9, 46055),

Gene: Lilpickle_69 Start: 45649, Stop: 45960, Start Num: 1

Candidate Starts for Lilpickle_69:

(Start: 1 @45649 has 116 MA's), (3, 45781), (4, 45796), (6, 45853), (7, 45877), (8, 45892), (9, 45940),

Gene: MISSy_71 Start: 46155, Stop: 46466, Start Num: 1

Candidate Starts for MISSy_71:

(Start: 1 @46155 has 116 MA's), (3, 46287), (4, 46302), (6, 46359), (7, 46383), (8, 46398), (9, 46446),

Gene: MPhalcon_71 Start: 46148, Stop: 46459, Start Num: 1

Candidate Starts for MPhalcon_71:

(Start: 1 @46148 has 116 MA's), (3, 46280), (4, 46295), (6, 46352), (7, 46376), (8, 46391), (9, 46439),

Gene: MadamMonkfish_70 Start: 45373, Stop: 45684, Start Num: 1

Candidate Starts for MadamMonkfish_70:

(Start: 1 @45373 has 116 MA's), (3, 45505), (4, 45520), (6, 45577), (7, 45601), (8, 45616), (9, 45664),

Gene: Manda_70 Start: 46654, Stop: 46965, Start Num: 1

Candidate Starts for Manda_70:

(Start: 1 @46654 has 116 MA's), (3, 46786), (4, 46801), (7, 46882), (8, 46897), (9, 46945),

Gene: Marshmallow_68 Start: 46922, Stop: 47233, Start Num: 1

Candidate Starts for Marshmallow_68:

(Start: 1 @46922 has 116 MA's), (3, 47054), (4, 47069), (5, 47096), (7, 47150), (8, 47165), (9, 47213),

Gene: Maxxinista_72 Start: 46024, Stop: 46335, Start Num: 1

Candidate Starts for Maxxinista_72:

(Start: 1 @46024 has 116 MA's), (3, 46156), (4, 46171), (7, 46252), (8, 46267), (9, 46315),

Gene: Mindy_69 Start: 45237, Stop: 45548, Start Num: 1

Candidate Starts for Mindy_69:

(Start: 1 @45237 has 116 MA's), (3, 45369), (4, 45384), (7, 45465), (8, 45480), (9, 45528),

Gene: Miniwave_65 Start: 45690, Stop: 46001, Start Num: 1

Candidate Starts for Miniwave_65:

(Start: 1 @45690 has 116 MA's), (3, 45822), (4, 45837), (7, 45918), (8, 45933), (9, 45981),

Gene: Misfit_71 Start: 47167, Stop: 47478, Start Num: 1

Candidate Starts for Misfit_71:

(Start: 1 @47167 has 116 MA's), (3, 47299), (4, 47314), (6, 47371), (7, 47395), (8, 47410), (9, 47458),

Gene: Moldemort_73 Start: 46246, Stop: 46557, Start Num: 1

Candidate Starts for Moldemort_73:

(Start: 1 @46246 has 116 MA's), (3, 46378), (4, 46393), (7, 46474), (8, 46489), (9, 46537),

Gene: Mosby_66 Start: 45450, Stop: 45761, Start Num: 1

Candidate Starts for Mosby_66:

(Start: 1 @45450 has 116 MA's), (3, 45582), (4, 45597), (6, 45654), (7, 45678), (8, 45693), (9, 45741),

Gene: Murica_73 Start: 47099, Stop: 47410, Start Num: 1

Candidate Starts for Murica_73:

(Start: 1 @47099 has 116 MA's), (3, 47231), (4, 47246), (6, 47303), (7, 47327), (8, 47342), (9, 47390),

Gene: Murphy_70 Start: 46536, Stop: 46847, Start Num: 1

Candidate Starts for Murphy_70:

(Start: 1 @46536 has 116 MA's), (3, 46668), (4, 46683), (7, 46764), (8, 46779), (9, 46827),

Gene: Myrale_70 Start: 46787, Stop: 47098, Start Num: 1

Candidate Starts for Myrale_70:

(Start: 1 @46787 has 116 MA's), (3, 46919), (4, 46934), (5, 46961), (7, 47015), (8, 47030), (9, 47078),

Gene: Nala_72 Start: 46660, Stop: 46971, Start Num: 1

Candidate Starts for Nala_72:

(Start: 1 @46660 has 116 MA's), (3, 46792), (4, 46807), (6, 46864), (7, 46888), (8, 46903), (9, 46951),

Gene: NelitzaMV_68 Start: 45736, Stop: 46047, Start Num: 1

Candidate Starts for NelitzaMV_68:

(Start: 1 @45736 has 116 MA's), (3, 45868), (4, 45883), (7, 45964), (8, 45979), (9, 46027),

Gene: Nimrod_71 Start: 47357, Stop: 47668, Start Num: 1

Candidate Starts for Nimrod_71:

(Start: 1 @47357 has 116 MA's), (3, 47489), (4, 47504), (6, 47561), (7, 47585), (8, 47600), (9, 47648),

Gene: NoSleep_71 Start: 45994, Stop: 46305, Start Num: 1

Candidate Starts for NoSleep_71:

(Start: 1 @45994 has 116 MA's), (3, 46126), (4, 46141), (6, 46198), (7, 46222), (8, 46237), (9, 46285),

Gene: OrionPax_69 Start: 45742, Stop: 46053, Start Num: 1

Candidate Starts for OrionPax_69:

(Start: 1 @45742 has 116 MA's), (3, 45874), (4, 45889), (7, 45970), (8, 45985), (9, 46033),

Gene: Paperbeatsrock_69 Start: 46368, Stop: 46679, Start Num: 1

Candidate Starts for Paperbeatsrock_69:

(Start: 1 @46368 has 116 MA's), (3, 46500), (4, 46515), (7, 46596), (8, 46611), (9, 46659),

Gene: Pat3_68 Start: 44894, Stop: 45205, Start Num: 1

Candidate Starts for Pat3_68:

(Start: 1 @44894 has 116 MA's), (3, 45026), (4, 45041), (7, 45122), (8, 45137), (9, 45185),

Gene: Petra64142_74 Start: 47593, Stop: 47904, Start Num: 1

Candidate Starts for Petra64142_74:

(Start: 1 @47593 has 116 MA's), (3, 47725), (4, 47740), (7, 47821), (8, 47836), (9, 47884),

Gene: Phaja_68 Start: 46194, Stop: 46505, Start Num: 1

Candidate Starts for Phaja_68:

(Start: 1 @46194 has 116 MA's), (3, 46326), (4, 46341), (7, 46422), (8, 46437), (9, 46485),

Gene: Pharsalus_67 Start: 46168, Stop: 46479, Start Num: 1

Candidate Starts for Pharsalus_67:

(Start: 1 @46168 has 116 MA's), (3, 46300), (4, 46315), (7, 46396), (8, 46411), (9, 46459),

Gene: PhatBacter_74 Start: 47143, Stop: 47454, Start Num: 1

Candidate Starts for PhatBacter_74:

(Start: 1 @47143 has 116 MA's), (3, 47275), (4, 47290), (7, 47371), (8, 47386), (9, 47434),

Gene: Phaux_72 Start: 47138, Stop: 47449, Start Num: 1

Candidate Starts for Phaux_72:

(Start: 1 @47138 has 116 MA's), (3, 47270), (4, 47285), (7, 47366), (8, 47381), (9, 47429),

Gene: Phrux_67 Start: 45734, Stop: 46045, Start Num: 1

Candidate Starts for Phrux_67:

(Start: 1 @45734 has 116 MA's), (3, 45866), (4, 45881), (7, 45962), (8, 45977), (9, 46025),

Gene: Porky_69 Start: 45564, Stop: 45875, Start Num: 1

Candidate Starts for Porky_69:

(Start: 1 @45564 has 116 MA's), (3, 45696), (4, 45711), (7, 45792), (8, 45807), (9, 45855),

Gene: Pumpkin_73 Start: 46792, Stop: 47103, Start Num: 1

Candidate Starts for Pumpkin_73:

(Start: 1 @46792 has 116 MA's), (3, 46924), (4, 46939), (7, 47020), (8, 47035), (9, 47083),

Gene: Quallification_71 Start: 46776, Stop: 47087, Start Num: 1

Candidate Starts for Quallification_71:

(Start: 1 @46776 has 116 MA's), (3, 46908), (4, 46923), (5, 46950), (7, 47004), (8, 47019), (9, 47067),

Gene: Rakim_71 Start: 46245, Stop: 46556, Start Num: 1

Candidate Starts for Rakim_71:

(Start: 1 @46245 has 116 MA's), (3, 46377), (4, 46392), (7, 46473), (8, 46488), (9, 46536),

Gene: Rimmer_71 Start: 46487, Stop: 46798, Start Num: 1

Candidate Starts for Rimmer_71:

(Start: 1 @46487 has 116 MA's), (3, 46619), (4, 46634), (7, 46715), (8, 46730), (9, 46778),

Gene: RiverMonster_70 Start: 46312, Stop: 46623, Start Num: 1

Candidate Starts for RiverMonster_70:

(Start: 1 @46312 has 116 MA's), (3, 46444), (4, 46459), (7, 46540), (8, 46555), (9, 46603),

Gene: Saints25_69 Start: 45722, Stop: 46033, Start Num: 1

Candidate Starts for Saints25_69:

(Start: 1 @45722 has 116 MA's), (3, 45854), (4, 45869), (6, 45926), (7, 45950), (8, 45965), (9, 46013),

Gene: Sassay_65 Start: 44412, Stop: 44723, Start Num: 1

Candidate Starts for Sassay_65:

(Start: 1 @44412 has 116 MA's), (3, 44544), (4, 44559), (6, 44616), (7, 44640), (8, 44655), (9, 44703),

Gene: ShamWow_70 Start: 46631, Stop: 46942, Start Num: 1

Candidate Starts for ShamWow_70:

(Start: 1 @46631 has 116 MA's), (3, 46763), (4, 46778), (7, 46859), (8, 46874), (9, 46922),

Gene: ShereKhan_69 Start: 46700, Stop: 47011, Start Num: 1
Candidate Starts for ShereKhan_69:
(Start: 1 @46700 has 116 MA's), (3, 46832), (4, 46847), (5, 46874), (7, 46928), (8, 46943), (9, 46991),

Gene: Simpliphy_69 Start: 45712, Stop: 46023, Start Num: 1
Candidate Starts for Simpliphy_69:
(Start: 1 @45712 has 116 MA's), (3, 45844), (4, 45859), (7, 45940), (8, 45955), (9, 46003),

Gene: SirDuracell_69 Start: 44986, Stop: 45297, Start Num: 1
Candidate Starts for SirDuracell_69:
(Start: 1 @44986 has 116 MA's), (3, 45118), (4, 45133), (7, 45214), (8, 45229), (9, 45277),

Gene: SophKB_67 Start: 45387, Stop: 45698, Start Num: 1
Candidate Starts for SophKB_67:
(Start: 1 @45387 has 116 MA's), (3, 45519), (4, 45534), (7, 45615), (8, 45630), (9, 45678),

Gene: Sotrice96_71 Start: 46390, Stop: 46701, Start Num: 1
Candidate Starts for Sotrice96_71:
(Start: 1 @46390 has 116 MA's), (3, 46522), (4, 46537), (7, 46618), (8, 46633), (9, 46681),

Gene: Stank_74 Start: 46645, Stop: 46956, Start Num: 1
Candidate Starts for Stank_74:
(Start: 1 @46645 has 116 MA's), (3, 46777), (4, 46792), (7, 46873), (8, 46888), (9, 46936),

Gene: Stark_71 Start: 46195, Stop: 46506, Start Num: 1
Candidate Starts for Stark_71:
(Start: 1 @46195 has 116 MA's), (3, 46327), (4, 46342), (7, 46423), (8, 46438), (9, 46486),

Gene: StellaBean_66 Start: 45955, Stop: 46266, Start Num: 1
Candidate Starts for StellaBean_66:
(Start: 1 @45955 has 116 MA's), (3, 46087), (4, 46102), (7, 46183), (8, 46198), (9, 46246),

Gene: StolenFromERC_73 Start: 46427, Stop: 46738, Start Num: 1
Candidate Starts for StolenFromERC_73:
(Start: 1 @46427 has 116 MA's), (3, 46559), (4, 46574), (6, 46631), (7, 46655), (8, 46670), (9, 46718),

Gene: TBrady12_73 Start: 46129, Stop: 46440, Start Num: 1
Candidate Starts for TBrady12_73:
(Start: 1 @46129 has 116 MA's), (3, 46261), (4, 46276), (7, 46357), (8, 46372), (9, 46420),

Gene: Tarkin_69 Start: 46377, Stop: 46688, Start Num: 1
Candidate Starts for Tarkin_69:
(Start: 1 @46377 has 116 MA's), (3, 46509), (4, 46524), (7, 46605), (8, 46620), (9, 46668),

Gene: TeardropMSU_66 Start: 45377, Stop: 45688, Start Num: 1
Candidate Starts for TeardropMSU_66:
(Start: 1 @45377 has 116 MA's), (3, 45509), (4, 45524), (7, 45605), (8, 45620), (9, 45668),

Gene: Teaspoon_67 Start: 46271, Stop: 46582, Start Num: 1
Candidate Starts for Teaspoon_67:
(Start: 1 @46271 has 116 MA's), (3, 46403), (4, 46418), (7, 46499), (8, 46514), (9, 46562),

Gene: Terminus_73 Start: 47167, Stop: 47478, Start Num: 1

Candidate Starts for Terminus_73:

(Start: 1 @47167 has 116 MA's), (3, 47299), (4, 47314), (6, 47371), (7, 47395), (8, 47410), (9, 47458),

Gene: Thresher_72 Start: 47254, Stop: 47565, Start Num: 1

Candidate Starts for Thresher_72:

(Start: 1 @47254 has 116 MA's), (3, 47386), (4, 47401), (7, 47482), (8, 47497), (9, 47545),

Gene: Tomaszewski_65 Start: 45546, Stop: 45857, Start Num: 1

Candidate Starts for Tomaszewski_65:

(Start: 1 @45546 has 116 MA's), (3, 45678), (4, 45693), (7, 45774), (8, 45789), (9, 45837),

Gene: Toto_68 Start: 46631, Stop: 46942, Start Num: 1

Candidate Starts for Toto_68:

(Start: 1 @46631 has 116 MA's), (3, 46763), (4, 46778), (7, 46859), (8, 46874), (9, 46922),

Gene: Traaww1_66 Start: 45812, Stop: 46123, Start Num: 1

Candidate Starts for Traaww1_66:

(Start: 1 @45812 has 116 MA's), (3, 45944), (4, 45959), (7, 46040), (8, 46055), (9, 46103),

Gene: Tuco_71 Start: 47139, Stop: 47450, Start Num: 1

Candidate Starts for Tuco_71:

(Start: 1 @47139 has 116 MA's), (3, 47271), (4, 47286), (7, 47367), (8, 47382), (9, 47430),

Gene: Ukulele_65 Start: 45525, Stop: 45836, Start Num: 1

Candidate Starts for Ukulele_65:

(Start: 1 @45525 has 116 MA's), (3, 45657), (4, 45672), (7, 45753), (8, 45768), (9, 45816),

Gene: Wiggin_72 Start: 46213, Stop: 46524, Start Num: 1

Candidate Starts for Wiggin_72:

(Start: 1 @46213 has 116 MA's), (3, 46345), (4, 46360), (7, 46441), (8, 46456), (9, 46504),

Gene: Willez_65 Start: 44412, Stop: 44723, Start Num: 1

Candidate Starts for Willez_65:

(Start: 1 @44412 has 116 MA's), (3, 44544), (4, 44559), (6, 44616), (7, 44640), (8, 44655), (9, 44703),

Gene: Xandras_69 Start: 45624, Stop: 45935, Start Num: 1

Candidate Starts for Xandras_69:

(Start: 1 @45624 has 116 MA's), (3, 45756), (4, 45771), (6, 45828), (7, 45852), (8, 45867), (9, 45915),

Gene: YassJohnny_67 Start: 45585, Stop: 45896, Start Num: 1

Candidate Starts for YassJohnny_67:

(Start: 1 @45585 has 116 MA's), (3, 45717), (4, 45732), (7, 45813), (8, 45828), (9, 45876),

Gene: Youngblood_73 Start: 47094, Stop: 47405, Start Num: 1

Candidate Starts for Youngblood_73:

(Start: 1 @47094 has 116 MA's), (3, 47226), (4, 47241), (6, 47298), (7, 47322), (8, 47337), (9, 47385),

Gene: xkcd_73 Start: 47284, Stop: 47595, Start Num: 1

Candidate Starts for xkcd_73:

(Start: 1 @47284 has 116 MA's), (3, 47416), (4, 47431), (6, 47488), (7, 47512), (8, 47527), (9, 47575),