



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 1360 Report

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

Pham number 1360 has 72 members, 0 are drafts.

Phages represented in each track:

- Track 1 : DrDrey_60, Icee_61, Lilizi_61, Kanye_57, Filch_62, MPhalcon_61, HufflyPuff_63, Teaspoon_62, Balomoji_60, Goldilocks_63, Tarkin_60, TeardropMSU_57, Emmina_61, Paperbeatsrock_60, Gage_63, Murica_63, Porky_60, Phaja_59, Simpliphy_60, Mosby_57, IHOP_59, Tuco_62, Bruin_57, Argent26_64, MadamMonkfish_61, Cactus_63, Kimchi_64, Bench_63, Cookies_58, Asriel_61, ShereKhan_59, Pat3_59, BaboJay_57, Nala_62, Moldemort_64, Gemini_65, Flypotenuse_56, YassJohnny_57, PhatBacter_64, Adnama_65, Mindy_60, Glexan_59, HanKaySha_60, Czyszczonek_62, Goku_59, Manda_61, Eureka_59, BigBubba_62, Sotrice96_62, Wiggin_63, Traaww1_57, StellaBean_59, Dusk_58, TBrady12_64, ShamWow_61, NelitzaMV_58, SophKB_58, Terminus_63, Pumpkin_63, Hopey_61, Gator_59, Youngblood_63, JeTaime_61, Easy2Say_62, Barbarian_61, Inca_58, MISSy_61, GoldenSpark_64, FireRed_64
- Track 2 : Tomaszewski_56
- Track 3 : Willez_55, Sassay_55

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 71 of the 72 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adnama_65, Argent26_64, Asriel_61, BaboJay_57, Balomoji_60, Barbarian_61, Bench_63, BigBubba_62, Bruin_57, Cactus_63, Cookies_58, Czyszczonek_62, DrDrey_60, Dusk_58, Easy2Say_62, Emmina_61, Eureka_59, Filch_62, FireRed_64, Flypotenuse_56, Gage_63, Gator_59, Gemini_65, Glexan_59, Goku_59, GoldenSpark_64, Goldilocks_63, HanKaySha_60, Hopey_61, HufflyPuff_63, IHOP_59, Icee_61, Inca_58, JeTaime_61, Kanye_57, Kimchi_64, Lilizi_61, MISSy_61, MPhalcon_61, MadamMonkfish_61, Manda_61, Mindy_60, Moldemort_64, Mosby_57, Murica_63, Nala_62, NelitzaMV_58, Paperbeatsrock_60, Pat3_59, Phaja_59, PhatBacter_64, Porky_60, Pumpkin_63, Sassay_55, ShamWow_61, ShereKhan_59, Simpliphy_60, SophKB_58, Sotrice96_62, StellaBean_59, TBrady12_64, Tarkin_60, TeardropMSU_57, Teaspoon_62, Terminus_63, Traaww1_57, Tuco_62, Wiggin_63, Willez_55, YassJohnny_57, Youngblood_63,

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

- Tomaszewski_56,

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

-

Summary by start number:

Start 1:

- Found in 72 of 72 (100.0%) of genes in pham
- Manual Annotations of this start: 71 of 72
- Called 98.6% of time when present
- Phage (with cluster) where this start called: Adnama_65 (E), Argent26_64 (E), Asriel_61 (E), BaboJay_57 (E), Balomoji_60 (E), Barbarian_61 (E), Bench_63 (E), BigBubba_62 (E), Bruin_57 (E), Cactus_63 (E), Cookies_58 (E), Czyszczonek1_62 (E), DrDrey_60 (E), Dusk_58 (E), Easy2Say_62 (E), Emmina_61 (E), Eureka_59 (E), Filch_62 (E), FireRed_64 (E), Flypotenuse_56 (E), Gage_63 (E), Gator_59 (E), Gemini_65 (E), Glexan_59 (E), Goku_59 (E), GoldenSpark_64 (E), Goldilocks_63 (E), HanKaySha_60 (E), Hopey_61 (E), HufflyPuff_63 (E), IHOP_59 (E), Icee_61 (E), Inca_58 (E), JeTaime_61 (E), Kanye_57 (E), Kimchi_64 (E), Lilizi_61 (E), MISSy_61 (E), MPhalcon_61 (E), MadamMonkfish_61 (E), Manda_61 (E), Mindy_60 (E), Moldemort_64 (E), Mosby_57 (E), Murica_63 (E), Nala_62 (E), NelitzaMV_58 (E), Paperbeatsrock_60 (E), Pat3_59 (E), Phaja_59 (E), PhatBacter_64 (E), Porky_60 (E), Pumpkin_63 (E), Sassay_55 (E), ShamWow_61 (E), ShereKhan_59 (E), Simpliphy_60 (E), SophKB_58 (E), Sotrice96_62 (E), StellaBean_59 (E), TBrady12_64 (E), Tarkin_60 (E), TeardropMSU_57 (E), Teaspoon_62 (E), Terminus_63 (E), Traaww1_57 (E), Tuco_62 (E), Wiggin_63 (E), Willez_55 (E), YassJohnny_57 (E), Youngblood_63 (E),

Start 2:

- Found in 72 of 72 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 72
- Called 1.4% of time when present
- Phage (with cluster) where this start called: Tomaszewski_56 (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 71 times for cluster E.
- Start number 2 was manually annotated 1 time for cluster E.

Gene Information:

Gene: Adnama_65 Start: 42948, Stop: 43136, Start Num: 1

Candidate Starts for Adnama_65:

(Start: 1 @42948 has 71 MA's), (Start: 2 @42963 has 1 MA's), (3, 43056), (4, 43077), (5, 43083),

Gene: Argent26_64 Start: 42431, Stop: 42619, Start Num: 1

Candidate Starts for Argent26_64:

(Start: 1 @42431 has 71 MA's), (Start: 2 @42446 has 1 MA's), (3, 42539), (4, 42560), (5, 42566),

Gene: Asriel_61 Start: 41285, Stop: 41473, Start Num: 1

Candidate Starts for Asriel_61:

(Start: 1 @41285 has 71 MA's), (Start: 2 @41300 has 1 MA's), (3, 41393), (4, 41414), (5, 41420),

Gene: BaboJay_57 Start: 41825, Stop: 42013, Start Num: 1

Candidate Starts for BaboJay_57:

(Start: 1 @41825 has 71 MA's), (Start: 2 @41840 has 1 MA's), (3, 41933), (4, 41954), (5, 41960),

Gene: Balomoji_60 Start: 42762, Stop: 42950, Start Num: 1

Candidate Starts for Balomoji_60:

(Start: 1 @42762 has 71 MA's), (Start: 2 @42777 has 1 MA's), (3, 42870), (4, 42891), (5, 42897),

Gene: Barbarian_61 Start: 41285, Stop: 41473, Start Num: 1

Candidate Starts for Barbarian_61:

(Start: 1 @41285 has 71 MA's), (Start: 2 @41300 has 1 MA's), (3, 41393), (4, 41414), (5, 41420),

Gene: Bench_63 Start: 42263, Stop: 42451, Start Num: 1

Candidate Starts for Bench_63:

(Start: 1 @42263 has 71 MA's), (Start: 2 @42278 has 1 MA's), (3, 42371), (4, 42392), (5, 42398),

Gene: BigBubba_62 Start: 42304, Stop: 42492, Start Num: 1

Candidate Starts for BigBubba_62:

(Start: 1 @42304 has 71 MA's), (Start: 2 @42319 has 1 MA's), (3, 42412), (4, 42433), (5, 42439),

Gene: Bruin_57 Start: 41172, Stop: 41360, Start Num: 1

Candidate Starts for Bruin_57:

(Start: 1 @41172 has 71 MA's), (Start: 2 @41187 has 1 MA's), (3, 41280), (4, 41301), (5, 41307),

Gene: Cactus_63 Start: 41652, Stop: 41840, Start Num: 1

Candidate Starts for Cactus_63:

(Start: 1 @41652 has 71 MA's), (Start: 2 @41667 has 1 MA's), (3, 41760), (4, 41781), (5, 41787),

Gene: Cookies_58 Start: 41824, Stop: 42003, Start Num: 1

Candidate Starts for Cookies_58:

(Start: 1 @41824 has 71 MA's), (Start: 2 @41839 has 1 MA's), (3, 41932), (4, 41953), (5, 41959),

Gene: Czyszczone1_62 Start: 42162, Stop: 42350, Start Num: 1

Candidate Starts for Czyszczone1_62:

(Start: 1 @42162 has 71 MA's), (Start: 2 @42177 has 1 MA's), (3, 42270), (4, 42291), (5, 42297),

Gene: DrDrey_60 Start: 43081, Stop: 43269, Start Num: 1

Candidate Starts for DrDrey_60:

(Start: 1 @43081 has 71 MA's), (Start: 2 @43096 has 1 MA's), (3, 43189), (4, 43210), (5, 43216),

Gene: Dusk_58 Start: 42154, Stop: 42342, Start Num: 1

Candidate Starts for Dusk_58:

(Start: 1 @42154 has 71 MA's), (Start: 2 @42169 has 1 MA's), (3, 42262), (4, 42283), (5, 42289),

Gene: Easy2Say_62 Start: 43395, Stop: 43583, Start Num: 1

Candidate Starts for Easy2Say_62:

(Start: 1 @43395 has 71 MA's), (Start: 2 @43410 has 1 MA's), (3, 43503), (4, 43524), (5, 43530),

Gene: Emmina_61 Start: 41858, Stop: 42046, Start Num: 1

Candidate Starts for Emmina_61:

(Start: 1 @41858 has 71 MA's), (Start: 2 @41873 has 1 MA's), (3, 41966), (4, 41987), (5, 41993),

Gene: Eureka_59 Start: 42422, Stop: 42610, Start Num: 1

Candidate Starts for Eureka_59:

(Start: 1 @42422 has 71 MA's), (Start: 2 @42437 has 1 MA's), (3, 42530), (4, 42551), (5, 42557),

Gene: Filch_62 Start: 41883, Stop: 42071, Start Num: 1

Candidate Starts for Filch_62:

(Start: 1 @41883 has 71 MA's), (Start: 2 @41898 has 1 MA's), (3, 41991), (4, 42012), (5, 42018),

Gene: FireRed_64 Start: 43149, Stop: 43337, Start Num: 1

Candidate Starts for FireRed_64:

(Start: 1 @43149 has 71 MA's), (Start: 2 @43164 has 1 MA's), (3, 43257), (4, 43278), (5, 43284),

Gene: Flypotenuse_56 Start: 41646, Stop: 41834, Start Num: 1

Candidate Starts for Flypotenuse_56:

(Start: 1 @41646 has 71 MA's), (Start: 2 @41661 has 1 MA's), (3, 41754), (4, 41775), (5, 41781),

Gene: Gage_63 Start: 42431, Stop: 42619, Start Num: 1

Candidate Starts for Gage_63:

(Start: 1 @42431 has 71 MA's), (Start: 2 @42446 has 1 MA's), (3, 42539), (4, 42560), (5, 42566),

Gene: Gator_59 Start: 42785, Stop: 42973, Start Num: 1

Candidate Starts for Gator_59:

(Start: 1 @42785 has 71 MA's), (Start: 2 @42800 has 1 MA's), (3, 42893), (4, 42914), (5, 42920),

Gene: Gemini_65 Start: 42948, Stop: 43136, Start Num: 1

Candidate Starts for Gemini_65:

(Start: 1 @42948 has 71 MA's), (Start: 2 @42963 has 1 MA's), (3, 43056), (4, 43077), (5, 43083),

Gene: Glexan_59 Start: 42773, Stop: 42961, Start Num: 1

Candidate Starts for Glexan_59:

(Start: 1 @42773 has 71 MA's), (Start: 2 @42788 has 1 MA's), (3, 42881), (4, 42902), (5, 42908),

Gene: Goku_59 Start: 42151, Stop: 42339, Start Num: 1

Candidate Starts for Goku_59:

(Start: 1 @42151 has 71 MA's), (Start: 2 @42166 has 1 MA's), (3, 42259), (4, 42280), (5, 42286),

Gene: GoldenSpark_64 Start: 42431, Stop: 42619, Start Num: 1

Candidate Starts for GoldenSpark_64:

(Start: 1 @42431 has 71 MA's), (Start: 2 @42446 has 1 MA's), (3, 42539), (4, 42560), (5, 42566),

Gene: Goldilocks_63 Start: 41933, Stop: 42121, Start Num: 1

Candidate Starts for Goldilocks_63:

(Start: 1 @41933 has 71 MA's), (Start: 2 @41948 has 1 MA's), (3, 42041), (4, 42062), (5, 42068),

Gene: HanKaySha_60 Start: 41741, Stop: 41929, Start Num: 1

Candidate Starts for HanKaySha_60:

(Start: 1 @41741 has 71 MA's), (Start: 2 @41756 has 1 MA's), (3, 41849), (4, 41870), (5, 41876),

Gene: Hopey_61 Start: 42275, Stop: 42463, Start Num: 1
Candidate Starts for Hopey_61:
(Start: 1 @42275 has 71 MA's), (Start: 2 @42290 has 1 MA's), (3, 42383), (4, 42404), (5, 42410),

Gene: HufflyPuff_63 Start: 43105, Stop: 43293, Start Num: 1
Candidate Starts for HufflyPuff_63:
(Start: 1 @43105 has 71 MA's), (Start: 2 @43120 has 1 MA's), (3, 43213), (4, 43234), (5, 43240),

Gene: IHOP_59 Start: 42497, Stop: 42685, Start Num: 1
Candidate Starts for IHOP_59:
(Start: 1 @42497 has 71 MA's), (Start: 2 @42512 has 1 MA's), (3, 42605), (4, 42626), (5, 42632),

Gene: Icee_61 Start: 42099, Stop: 42287, Start Num: 1
Candidate Starts for Icee_61:
(Start: 1 @42099 has 71 MA's), (Start: 2 @42114 has 1 MA's), (3, 42207), (4, 42228), (5, 42234),

Gene: Inca_58 Start: 41022, Stop: 41210, Start Num: 1
Candidate Starts for Inca_58:
(Start: 1 @41022 has 71 MA's), (Start: 2 @41037 has 1 MA's), (3, 41130), (4, 41151), (5, 41157),

Gene: JeTaime_61 Start: 42925, Stop: 43113, Start Num: 1
Candidate Starts for JeTaime_61:
(Start: 1 @42925 has 71 MA's), (Start: 2 @42940 has 1 MA's), (3, 43033), (4, 43054), (5, 43060),

Gene: Kanye_57 Start: 41785, Stop: 41973, Start Num: 1
Candidate Starts for Kanye_57:
(Start: 1 @41785 has 71 MA's), (Start: 2 @41800 has 1 MA's), (3, 41893), (4, 41914), (5, 41920),

Gene: Kimchi_64 Start: 42434, Stop: 42622, Start Num: 1
Candidate Starts for Kimchi_64:
(Start: 1 @42434 has 71 MA's), (Start: 2 @42449 has 1 MA's), (3, 42542), (4, 42563), (5, 42569),

Gene: Lilizi_61 Start: 41734, Stop: 41922, Start Num: 1
Candidate Starts for Lilizi_61:
(Start: 1 @41734 has 71 MA's), (Start: 2 @41749 has 1 MA's), (3, 41842), (4, 41863), (5, 41869),

Gene: MISSy_61 Start: 42158, Stop: 42346, Start Num: 1
Candidate Starts for MISSy_61:
(Start: 1 @42158 has 71 MA's), (Start: 2 @42173 has 1 MA's), (3, 42266), (4, 42287), (5, 42293),

Gene: MPhalcon_61 Start: 42151, Stop: 42339, Start Num: 1
Candidate Starts for MPhalcon_61:
(Start: 1 @42151 has 71 MA's), (Start: 2 @42166 has 1 MA's), (3, 42259), (4, 42280), (5, 42286),

Gene: MadamMonkfish_61 Start: 41675, Stop: 41863, Start Num: 1
Candidate Starts for MadamMonkfish_61:
(Start: 1 @41675 has 71 MA's), (Start: 2 @41690 has 1 MA's), (3, 41783), (4, 41804), (5, 41810),

Gene: Manda_61 Start: 42956, Stop: 43144, Start Num: 1
Candidate Starts for Manda_61:
(Start: 1 @42956 has 71 MA's), (Start: 2 @42971 has 1 MA's), (3, 43064), (4, 43085), (5, 43091),

Gene: Mindy_60 Start: 41539, Stop: 41727, Start Num: 1
Candidate Starts for Mindy_60:
(Start: 1 @41539 has 71 MA's), (Start: 2 @41554 has 1 MA's), (3, 41647), (4, 41668), (5, 41674),

Gene: Moldemort_64 Start: 42548, Stop: 42736, Start Num: 1
Candidate Starts for Moldemort_64:
(Start: 1 @42548 has 71 MA's), (Start: 2 @42563 has 1 MA's), (3, 42656), (4, 42677), (5, 42683),

Gene: Mosby_57 Start: 41453, Stop: 41641, Start Num: 1
Candidate Starts for Mosby_57:
(Start: 1 @41453 has 71 MA's), (Start: 2 @41468 has 1 MA's), (3, 41561), (4, 41582), (5, 41588),

Gene: Murica_63 Start: 43105, Stop: 43293, Start Num: 1
Candidate Starts for Murica_63:
(Start: 1 @43105 has 71 MA's), (Start: 2 @43120 has 1 MA's), (3, 43213), (4, 43234), (5, 43240),

Gene: Nala_62 Start: 42663, Stop: 42851, Start Num: 1
Candidate Starts for Nala_62:
(Start: 1 @42663 has 71 MA's), (Start: 2 @42678 has 1 MA's), (3, 42771), (4, 42792), (5, 42798),

Gene: NelitzaMV_58 Start: 41740, Stop: 41928, Start Num: 1
Candidate Starts for NelitzaMV_58:
(Start: 1 @41740 has 71 MA's), (Start: 2 @41755 has 1 MA's), (3, 41848), (4, 41869), (5, 41875),

Gene: Paperbeatsrock_60 Start: 42670, Stop: 42858, Start Num: 1
Candidate Starts for Paperbeatsrock_60:
(Start: 1 @42670 has 71 MA's), (Start: 2 @42685 has 1 MA's), (3, 42778), (4, 42799), (5, 42805),

Gene: Pat3_59 Start: 40900, Stop: 41088, Start Num: 1
Candidate Starts for Pat3_59:
(Start: 1 @40900 has 71 MA's), (Start: 2 @40915 has 1 MA's), (3, 41008), (4, 41029), (5, 41035),

Gene: Phaja_59 Start: 42496, Stop: 42684, Start Num: 1
Candidate Starts for Phaja_59:
(Start: 1 @42496 has 71 MA's), (Start: 2 @42511 has 1 MA's), (3, 42604), (4, 42625), (5, 42631),

Gene: PhatBacter_64 Start: 43149, Stop: 43337, Start Num: 1
Candidate Starts for PhatBacter_64:
(Start: 1 @43149 has 71 MA's), (Start: 2 @43164 has 1 MA's), (3, 43257), (4, 43278), (5, 43284),

Gene: Porky_60 Start: 41866, Stop: 42054, Start Num: 1
Candidate Starts for Porky_60:
(Start: 1 @41866 has 71 MA's), (Start: 2 @41881 has 1 MA's), (3, 41974), (4, 41995), (5, 42001),

Gene: Pumpkin_63 Start: 42797, Stop: 42985, Start Num: 1
Candidate Starts for Pumpkin_63:
(Start: 1 @42797 has 71 MA's), (Start: 2 @42812 has 1 MA's), (3, 42905), (4, 42926), (5, 42932),

Gene: Sassay_55 Start: 40417, Stop: 40596, Start Num: 1
Candidate Starts for Sassay_55:
(Start: 1 @40417 has 71 MA's), (Start: 2 @40432 has 1 MA's), (3, 40525), (4, 40546), (5, 40552), (6, 40588),

Gene: ShamWow_61 Start: 42933, Stop: 43121, Start Num: 1
Candidate Starts for ShamWow_61:
(Start: 1 @42933 has 71 MA's), (Start: 2 @42948 has 1 MA's), (3, 43041), (4, 43062), (5, 43068),

Gene: ShereKhan_59 Start: 42709, Stop: 42897, Start Num: 1
Candidate Starts for ShereKhan_59:
(Start: 1 @42709 has 71 MA's), (Start: 2 @42724 has 1 MA's), (3, 42817), (4, 42838), (5, 42844),

Gene: Simpliphy_60 Start: 42014, Stop: 42202, Start Num: 1
Candidate Starts for Simpliphy_60:
(Start: 1 @42014 has 71 MA's), (Start: 2 @42029 has 1 MA's), (3, 42122), (4, 42143), (5, 42149),

Gene: SophKB_58 Start: 41689, Stop: 41877, Start Num: 1
Candidate Starts for SophKB_58:
(Start: 1 @41689 has 71 MA's), (Start: 2 @41704 has 1 MA's), (3, 41797), (4, 41818), (5, 41824),

Gene: Sotrice96_62 Start: 42395, Stop: 42583, Start Num: 1
Candidate Starts for Sotrice96_62:
(Start: 1 @42395 has 71 MA's), (Start: 2 @42410 has 1 MA's), (3, 42503), (4, 42524), (5, 42530),

Gene: StellaBean_59 Start: 42257, Stop: 42445, Start Num: 1
Candidate Starts for StellaBean_59:
(Start: 1 @42257 has 71 MA's), (Start: 2 @42272 has 1 MA's), (3, 42365), (4, 42386), (5, 42392),

Gene: TBrady12_64 Start: 42431, Stop: 42619, Start Num: 1
Candidate Starts for TBrady12_64:
(Start: 1 @42431 has 71 MA's), (Start: 2 @42446 has 1 MA's), (3, 42539), (4, 42560), (5, 42566),

Gene: Tarkin_60 Start: 42679, Stop: 42867, Start Num: 1
Candidate Starts for Tarkin_60:
(Start: 1 @42679 has 71 MA's), (Start: 2 @42694 has 1 MA's), (3, 42787), (4, 42808), (5, 42814),

Gene: TeardropMSU_57 Start: 41679, Stop: 41867, Start Num: 1
Candidate Starts for TeardropMSU_57:
(Start: 1 @41679 has 71 MA's), (Start: 2 @41694 has 1 MA's), (3, 41787), (4, 41808), (5, 41814),

Gene: Teaspoon_62 Start: 42573, Stop: 42761, Start Num: 1
Candidate Starts for Teaspoon_62:
(Start: 1 @42573 has 71 MA's), (Start: 2 @42588 has 1 MA's), (3, 42681), (4, 42702), (5, 42708),

Gene: Terminus_63 Start: 43170, Stop: 43358, Start Num: 1
Candidate Starts for Terminus_63:
(Start: 1 @43170 has 71 MA's), (Start: 2 @43185 has 1 MA's), (3, 43278), (4, 43299), (5, 43305),

Gene: Tomaszewski_56 Start: 41567, Stop: 41740, Start Num: 2
Candidate Starts for Tomaszewski_56:
(Start: 1 @41552 has 71 MA's), (Start: 2 @41567 has 1 MA's), (3, 41660), (4, 41681), (5, 41687),

Gene: Traaww1_57 Start: 42114, Stop: 42302, Start Num: 1
Candidate Starts for Traaww1_57:
(Start: 1 @42114 has 71 MA's), (Start: 2 @42129 has 1 MA's), (3, 42222), (4, 42243), (5, 42249),

Gene: Tuco_62 Start: 43441, Stop: 43629, Start Num: 1

Candidate Starts for Tuco_62:

(Start: 1 @43441 has 71 MA's), (Start: 2 @43456 has 1 MA's), (3, 43549), (4, 43570), (5, 43576),

Gene: Wiggin_63 Start: 42515, Stop: 42703, Start Num: 1

Candidate Starts for Wiggin_63:

(Start: 1 @42515 has 71 MA's), (Start: 2 @42530 has 1 MA's), (3, 42623), (4, 42644), (5, 42650),

Gene: Willez_55 Start: 40417, Stop: 40596, Start Num: 1

Candidate Starts for Willez_55:

(Start: 1 @40417 has 71 MA's), (Start: 2 @40432 has 1 MA's), (3, 40525), (4, 40546), (5, 40552), (6, 40588),

Gene: YassJohnny_57 Start: 41592, Stop: 41780, Start Num: 1

Candidate Starts for YassJohnny_57:

(Start: 1 @41592 has 71 MA's), (Start: 2 @41607 has 1 MA's), (3, 41700), (4, 41721), (5, 41727),

Gene: Youngblood_63 Start: 43100, Stop: 43288, Start Num: 1

Candidate Starts for Youngblood_63:

(Start: 1 @43100 has 71 MA's), (Start: 2 @43115 has 1 MA's), (3, 43208), (4, 43229), (5, 43235),