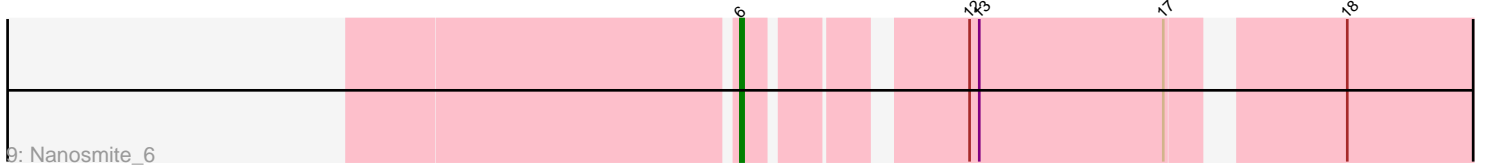
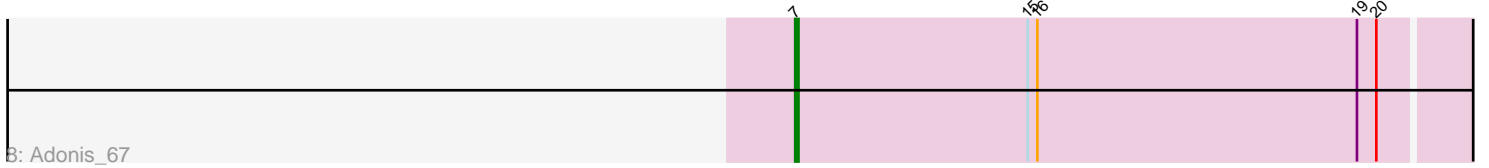
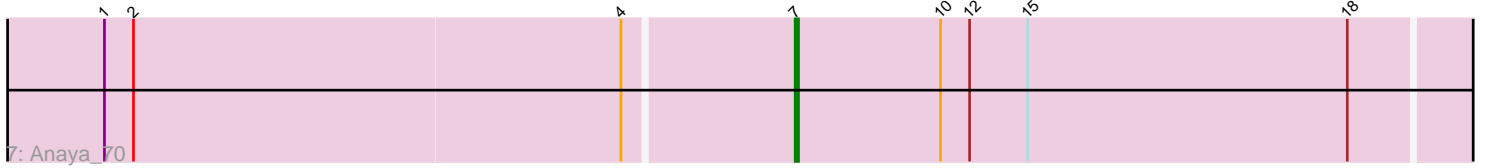
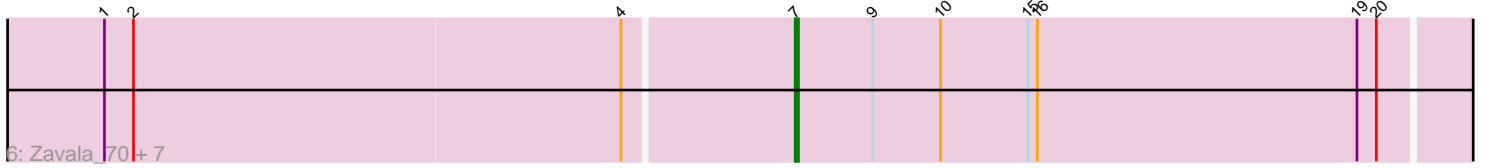
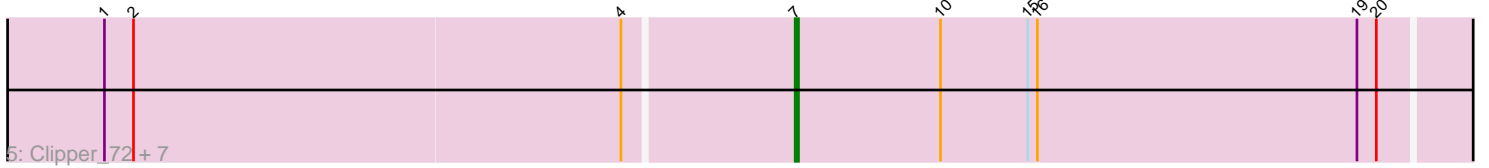
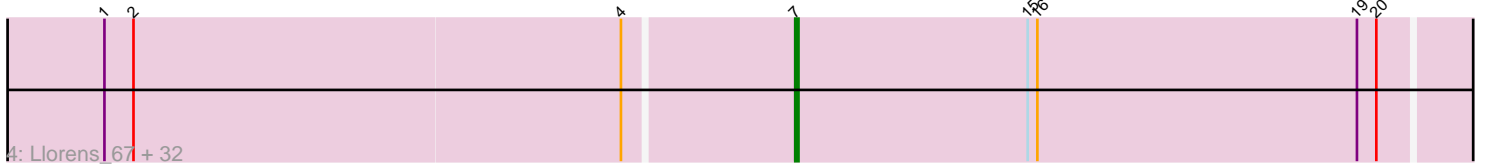
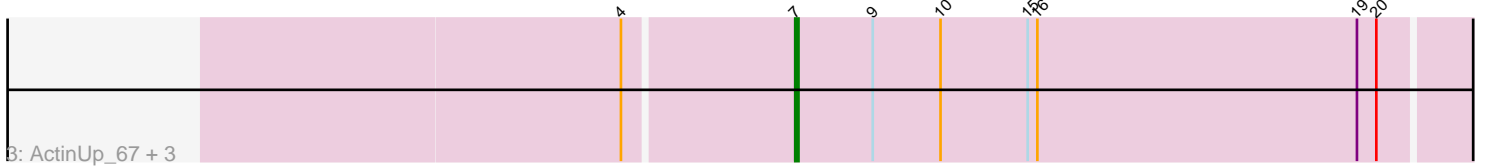
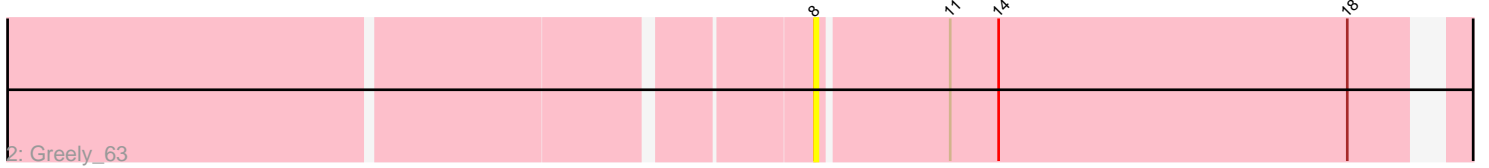
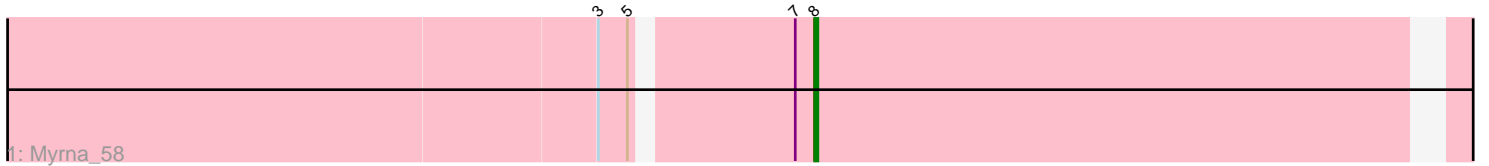


Pham 216193



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 216193 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216193 has 58 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Myrna_58
- Track 2 : Greely_63
- Track 3 : ActinUp_67, Ramen_68, HedwigODU_67, Zabiza_62
- Track 4 : Llorens_67, Adephagia_67, Boiiii_67, Durfee_67, Piatt_67, Topper_67, Tachez_67, Blizzard_67, BGlluviae_67, Hyperbowlee_67, Belladonna_67, Dalmuri_67, Inky_67, CaseJules_69, Homura_67, Padfoot_67, Asayake_67, CallaLilly_69, Jarvi_67, Spock_67, Jeckyll_67, Twitch_67, Capricorn_67, Peel_67, Rosmarinus_67, AlishaPH_67, ShiaSurprise_68, Joy99_67, CREW_67, Atiba_68, Lunahalos_67, BEEST_67, Geraldini_70
- Track 5 : Clipper_72, Beezoo_69, Pokerus_67, Padpat_70, MacKat_63, Ganymede_67, QuincyRose_65, Emerson_69
- Track 6 : Zavala_70, Mynx_69, Jayhawk_69, BarrelRoll_68, Slimphazie_68, Rapunzel97_69, TruffulaTree_68, MeaningOfLife_68
- Track 7 : Anaya_70
- Track 8 : Adonis_67
- Track 9 : Nanosmite_6

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 52 of the 54 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- ActinUp_67, Adephagia_67, Adonis_67, AlishaPH_67, Anaya_70, Asayake_67, Atiba_68, BEEST_67, BGlluviae_67, BarrelRoll_68, Beezoo_69, Belladonna_67, Blizzard_67, Boiiii_67, CREW_67, CallaLilly_69, Capricorn_67, CaseJules_69, Clipper_72, Dalmuri_67, Durfee_67, Emerson_69, Ganymede_67, Geraldini_70, HedwigODU_67, Homura_67, Hyperbowlee_67, Inky_67, Jarvi_67, Jayhawk_69, Jeckyll_67, Joy99_67, Llorens_67, Lunahalos_67, MacKat_63, MeaningOfLife_68, Mynx_69, Padfoot_67, Padpat_70, Peel_67, Piatt_67, Pokerus_67, QuincyRose_65, Ramen_68, Rapunzel97_69, Rosmarinus_67, ShiaSurprise_68, Slimphazie_68, Spock_67, Tachez_67, Topper_67, TruffulaTree_68, Twitch_67, Zabiza_62, Zavala_70,

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

- Myrna_58,

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

- Greely_63, Nanosmite_6,

Summary by start number:

Start 6:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 54
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nanosmite_6 (M3),

Start 7:

- Found in 56 of 58 (96.6%) of genes in pham
- Manual Annotations of this start: 52 of 54
- Called 98.2% of time when present
- Phage (with cluster) where this start called: ActinUp_67 (K1), Adephagia_67 (K1), Adonis_67 (K1), AlishaPH_67 (K1), Anaya_70 (K1), Asayake_67 (K1), Atiba_68 (K1), BEEST_67 (K1), BGlluviae_67 (K1), BarrelRoll_68 (K1), Beezoo_69 (K1), Belladonna_67 (K1), Blizzard_67 (K1), Boiii_67 (K1), CREW_67 (K1), CallaLilly_69 (K1), Capricorn_67 (K1), CaseJules_69 (K1), Clipper_72 (K1), Dalmuri_67 (K1), Durfee_67 (K1), Emerson_69 (K1), Ganymede_67 (K1), Geraldini_70 (K1), HedwigODU_67 (K1), Homura_67 (K1), Hyperbowlee_67 (K1), Inky_67 (K1), Jarvi_67 (K1), Jayhawk_69 (K1), Jeckyll_67 (K1), Joy99_67 (K1), Llorens_67 (K1), Lunahalos_67 (K1), MacKat_63 (K1), MeaningOfLife_68 (K1), Mynx_69 (K1), Padfoot_67 (K1), Padpat_70 (K1), Peel_67 (K1), Piatt_67 (K1), Pokerus_67 (K1), QuincyRose_65 (K1), Ramen_68 (K1), Rapunzel97_69 (K1), Rosmarinus_67 (K1), ShiaSurprise_68 (K1), Slimphazie_68 (K1), Spock_67 (K1), Tachez_67 (K1), Topper_67 (K1), TruffulaTree_68 (K1), Twitch_67 (K1), Zabiza_62 (K1), Zavala_70 (K1),

Start 8:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 1 of 54
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greely_63 (C2), Myrna_58 (C2),

Summary by clusters:

There are 3 clusters represented in this pham: C2, K1, M3,

Info for manual annotations of cluster C2:

- Start number 8 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster K1:

- Start number 7 was manually annotated 52 times for cluster K1.

Info for manual annotations of cluster M3:

- Start number 6 was manually annotated 1 time for cluster M3.

Gene Information:

Gene: ActinUp_67 Start: 43706, Stop: 43945, Start Num: 7

Candidate Starts for ActinUp_67:

(4, 43655), (Start: 7 @43706 has 52 MA's), (9, 43730), (10, 43751), (15, 43778), (16, 43781), (19, 43880), (20, 43886),

Gene: Adephagia_67 Start: 43743, Stop: 43982, Start Num: 7

Candidate Starts for Adephagia_67:

(1, 43533), (2, 43542), (4, 43692), (Start: 7 @43743 has 52 MA's), (15, 43815), (16, 43818), (19, 43917), (20, 43923),

Gene: Adonis_67 Start: 43978, Stop: 44217, Start Num: 7

Candidate Starts for Adonis_67:

(Start: 7 @43978 has 52 MA's), (15, 44050), (16, 44053), (19, 44152), (20, 44158),

Gene: AlishaPH_67 Start: 44004, Stop: 44243, Start Num: 7

Candidate Starts for AlishaPH_67:

(1, 43794), (2, 43803), (4, 43953), (Start: 7 @44004 has 52 MA's), (15, 44076), (16, 44079), (19, 44178), (20, 44184),

Gene: Anaya_70 Start: 44697, Stop: 44936, Start Num: 7

Candidate Starts for Anaya_70:

(1, 44487), (2, 44496), (4, 44646), (Start: 7 @44697 has 52 MA's), (10, 44742), (12, 44751), (15, 44769), (18, 44868),

Gene: Asayake_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Asayake_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Atiba_68 Start: 43706, Stop: 43945, Start Num: 7

Candidate Starts for Atiba_68:

(1, 43496), (2, 43505), (4, 43655), (Start: 7 @43706 has 52 MA's), (15, 43778), (16, 43781), (19, 43880), (20, 43886),

Gene: BEEST_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for BEEST_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: BGlluviae_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for BGlluviae_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: BarrelRoll_68 Start: 44144, Stop: 44383, Start Num: 7

Candidate Starts for BarrelRoll_68:

(1, 43934), (2, 43943), (4, 44093), (Start: 7 @44144 has 52 MA's), (9, 44168), (10, 44189), (15, 44216), (16, 44219), (19, 44318), (20, 44324),

Gene: Beezoo_69 Start: 44656, Stop: 44895, Start Num: 7

Candidate Starts for Beezoo_69:

(1, 44446), (2, 44455), (4, 44605), (Start: 7 @44656 has 52 MA's), (10, 44701), (15, 44728), (16, 44731), (19, 44830), (20, 44836),

Gene: Belladonna_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Belladonna_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Blizzard_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Blizzard_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Boiiii_67 Start: 44060, Stop: 44299, Start Num: 7

Candidate Starts for Boiiii_67:

(1, 43850), (2, 43859), (4, 44009), (Start: 7 @44060 has 52 MA's), (15, 44132), (16, 44135), (19, 44234), (20, 44240),

Gene: CREW_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for CREW_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: CallaLilly_69 Start: 43784, Stop: 44023, Start Num: 7

Candidate Starts for CallaLilly_69:

(1, 43574), (2, 43583), (4, 43733), (Start: 7 @43784 has 52 MA's), (15, 43856), (16, 43859), (19, 43958), (20, 43964),

Gene: Capricorn_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Capricorn_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: CaseJules_69 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for CaseJules_69:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Clipper_72 Start: 44760, Stop: 44999, Start Num: 7

Candidate Starts for Clipper_72:

(1, 44550), (2, 44559), (4, 44709), (Start: 7 @44760 has 52 MA's), (10, 44805), (15, 44832), (16, 44835), (19, 44934), (20, 44940),

Gene: Dalmuri_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Dalmuri_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Durfee_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Durfee_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Emerson_69 Start: 44178, Stop: 44417, Start Num: 7

Candidate Starts for Emerson_69:

(1, 43968), (2, 43977), (4, 44127), (Start: 7 @44178 has 52 MA's), (10, 44223), (15, 44250), (16, 44253), (19, 44352), (20, 44358),

Gene: Ganymede_67 Start: 44084, Stop: 44323, Start Num: 7

Candidate Starts for Ganymede_67:

(1, 43874), (2, 43883), (4, 44033), (Start: 7 @44084 has 52 MA's), (10, 44129), (15, 44156), (16, 44159), (19, 44258), (20, 44264),

Gene: Geraldini_70 Start: 44740, Stop: 44979, Start Num: 7

Candidate Starts for Geraldini_70:

(1, 44530), (2, 44539), (4, 44689), (Start: 7 @44740 has 52 MA's), (15, 44812), (16, 44815), (19, 44914), (20, 44920),

Gene: Greely_63 Start: 23265, Stop: 23489, Start Num: 8

Candidate Starts for Greely_63:

(Start: 8 @23265 has 1 MA's), (11, 23304), (14, 23319), (18, 23427),

Gene: HedwigODU_67 Start: 43706, Stop: 43945, Start Num: 7

Candidate Starts for HedwigODU_67:

(4, 43655), (Start: 7 @43706 has 52 MA's), (9, 43730), (10, 43751), (15, 43778), (16, 43781), (19, 43880), (20, 43886),

Gene: Homura_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Homura_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Hyperbowlee_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Hyperbowlee_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Inky_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Inky_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Jarvi_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Jarvi_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Jayhawk_69 Start: 44204, Stop: 44443, Start Num: 7

Candidate Starts for Jayhawk_69:

(1, 43994), (2, 44003), (4, 44153), (Start: 7 @44204 has 52 MA's), (9, 44228), (10, 44249), (15, 44276), (16, 44279), (19, 44378), (20, 44384),

Gene: Jeckyll_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Jeckyll_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Joy99_67 Start: 43790, Stop: 44029, Start Num: 7

Candidate Starts for Joy99_67:

(1, 43580), (2, 43589), (4, 43739), (Start: 7 @43790 has 52 MA's), (15, 43862), (16, 43865), (19, 43964), (20, 43970),

Gene: Llorens_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Llorens_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: Lunahalos_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Lunahalos_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: MacKat_63 Start: 39644, Stop: 39883, Start Num: 7

Candidate Starts for MacKat_63:

(1, 39434), (2, 39443), (4, 39593), (Start: 7 @39644 has 52 MA's), (10, 39689), (15, 39716), (16, 39719), (19, 39818), (20, 39824),

Gene: MeaningOfLife_68 Start: 44613, Stop: 44852, Start Num: 7

Candidate Starts for MeaningOfLife_68:

(1, 44403), (2, 44412), (4, 44562), (Start: 7 @44613 has 52 MA's), (9, 44637), (10, 44658), (15, 44685), (16, 44688), (19, 44787), (20, 44793),

Gene: Mynx_69 Start: 44473, Stop: 44712, Start Num: 7

Candidate Starts for Mynx_69:

(1, 44263), (2, 44272), (4, 44422), (Start: 7 @44473 has 52 MA's), (9, 44497), (10, 44518), (15, 44545), (16, 44548), (19, 44647), (20, 44653),

Gene: Myrna_58 Start: 22613, Stop: 22840, Start Num: 8

Candidate Starts for Myrna_58:

(3, 22553), (5, 22562), (Start: 7 @22607 has 52 MA's), (Start: 8 @22613 has 1 MA's),

Gene: Nanosmite_6 Start: 2681, Stop: 2448, Start Num: 6

Candidate Starts for Nanosmite_6:

(Start: 6 @2681 has 1 MA's), (12, 2624), (13, 2621), (17, 2564), (18, 2519),

Gene: Padfoot_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Padfoot_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Padpat_70 Start: 44178, Stop: 44417, Start Num: 7

Candidate Starts for Padpat_70:

(1, 43968), (2, 43977), (4, 44127), (Start: 7 @44178 has 52 MA's), (10, 44223), (15, 44250), (16, 44253), (19, 44352), (20, 44358),

Gene: Peel_67 Start: 43863, Stop: 44102, Start Num: 7

Candidate Starts for Peel_67:

(1, 43653), (2, 43662), (4, 43812), (Start: 7 @43863 has 52 MA's), (15, 43935), (16, 43938), (19, 44037), (20, 44043),

Gene: Piatt_67 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for Piatt_67:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Pokerus_67 Start: 44203, Stop: 44442, Start Num: 7

Candidate Starts for Pokerus_67:

(1, 43993), (2, 44002), (4, 44152), (Start: 7 @44203 has 52 MA's), (10, 44248), (15, 44275), (16, 44278), (19, 44377), (20, 44383),

Gene: QuincyRose_65 Start: 44084, Stop: 44323, Start Num: 7

Candidate Starts for QuincyRose_65:

(1, 43874), (2, 43883), (4, 44033), (Start: 7 @44084 has 52 MA's), (10, 44129), (15, 44156), (16, 44159), (19, 44258), (20, 44264),

Gene: Ramen_68 Start: 43708, Stop: 43947, Start Num: 7

Candidate Starts for Ramen_68:

(4, 43657), (Start: 7 @43708 has 52 MA's), (9, 43732), (10, 43753), (15, 43780), (16, 43783), (19, 43882), (20, 43888),

Gene: Rapunzel97_69 Start: 44159, Stop: 44398, Start Num: 7

Candidate Starts for Rapunzel97_69:

(1, 43949), (2, 43958), (4, 44108), (Start: 7 @44159 has 52 MA's), (9, 44183), (10, 44204), (15, 44231), (16, 44234), (19, 44333), (20, 44339),

Gene: Rosmarinus_67 Start: 43849, Stop: 44088, Start Num: 7

Candidate Starts for Rosmarinus_67:

(1, 43639), (2, 43648), (4, 43798), (Start: 7 @43849 has 52 MA's), (15, 43921), (16, 43924), (19, 44023), (20, 44029),

Gene: ShiaSurprise_68 Start: 44058, Stop: 44297, Start Num: 7

Candidate Starts for ShiaSurprise_68:

(1, 43848), (2, 43857), (4, 44007), (Start: 7 @44058 has 52 MA's), (15, 44130), (16, 44133), (19, 44232), (20, 44238),

Gene: Slimphazie_68 Start: 44159, Stop: 44398, Start Num: 7

Candidate Starts for Slimphazie_68:

(1, 43949), (2, 43958), (4, 44108), (Start: 7 @44159 has 52 MA's), (9, 44183), (10, 44204), (15, 44231), (16, 44234), (19, 44333), (20, 44339),

Gene: Spock_67 Start: 43862, Stop: 44101, Start Num: 7

Candidate Starts for Spock_67:

(1, 43652), (2, 43661), (4, 43811), (Start: 7 @43862 has 52 MA's), (15, 43934), (16, 43937), (19, 44036), (20, 44042),

Gene: Tachez_67 Start: 43706, Stop: 43945, Start Num: 7

Candidate Starts for Tachez_67:

(1, 43496), (2, 43505), (4, 43655), (Start: 7 @43706 has 52 MA's), (15, 43778), (16, 43781), (19, 43880), (20, 43886),

Gene: Topper_67 Start: 43861, Stop: 44100, Start Num: 7

Candidate Starts for Topper_67:

(1, 43651), (2, 43660), (4, 43810), (Start: 7 @43861 has 52 MA's), (15, 43933), (16, 43936), (19, 44035), (20, 44041),

Gene: TruffulaTree_68 Start: 44155, Stop: 44394, Start Num: 7

Candidate Starts for TruffulaTree_68:

(1, 43945), (2, 43954), (4, 44104), (Start: 7 @44155 has 52 MA's), (9, 44179), (10, 44200), (15, 44227), (16, 44230), (19, 44329), (20, 44335),

Gene: Twitch_67 Start: 43863, Stop: 44102, Start Num: 7

Candidate Starts for Twitch_67:

(1, 43653), (2, 43662), (4, 43812), (Start: 7 @43863 has 52 MA's), (15, 43935), (16, 43938), (19, 44037), (20, 44043),

Gene: Zabiza_62 Start: 40011, Stop: 40250, Start Num: 7

Candidate Starts for Zabiza_62:

(4, 39960), (Start: 7 @40011 has 52 MA's), (9, 40035), (10, 40056), (15, 40083), (16, 40086), (19, 40185), (20, 40191),

Gene: Zavala_70 Start: 44433, Stop: 44672, Start Num: 7

Candidate Starts for Zavala_70:

(1, 44223), (2, 44232), (4, 44382), (Start: 7 @44433 has 52 MA's), (9, 44457), (10, 44478), (15, 44505), (16, 44508), (19, 44607), (20, 44613),