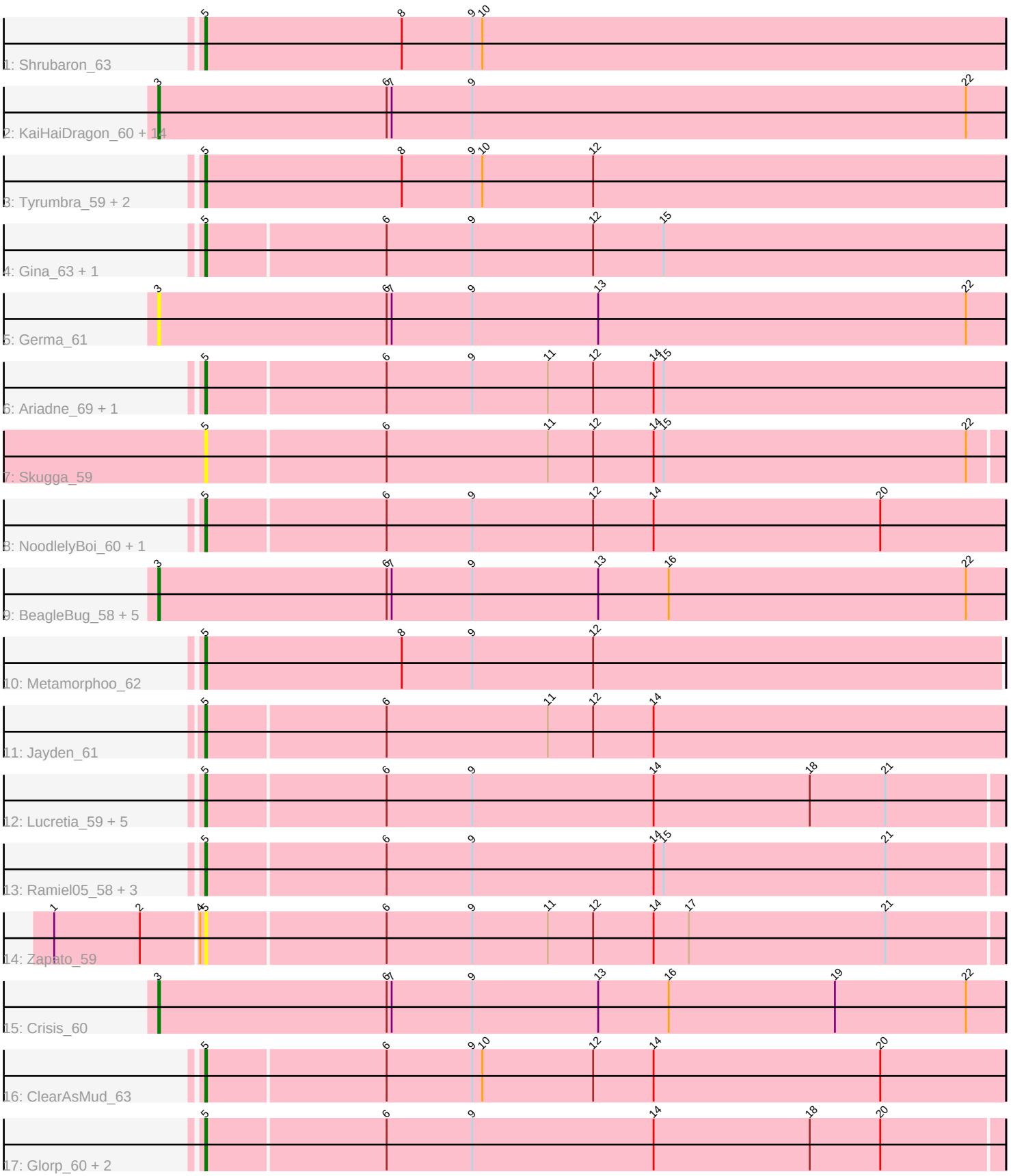
Pham 342242


1: Shrubaron_63
2: KaiHaiDragon_60 + 14
3: Tyrumbra_59 + 2
4: Gina_63 + 1
5: Germa_61
6: Ariadne_69 + 1
7: Skugga_59
8: NoodlelyBoi_60 + 1
9: BeagleBug_58 + 5
10: Metamorphoo_62
11: Jayden_61
12: Lucretia_59 + 5
13: Ramiel05_58 + 3
14: Zapato_59
15: Crisis_60
16: ClearAsMud_63
17: Glorp_60 + 2

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 342242 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342242 has 51 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Shrubaron_63
• Track 2 : KaiHaiDragon_60, EarickHC_60, Paschalis_59, Onika_58, Antares_59, Ganandorf_58, Scumberland_61, Quhwah_63, CrazyRich_58, Jefe_59, PhedwardCullen_58, LittleFortune_61, Busephilis_58, Cranjis_60, Savannah_58
• Track 3 : Tyrumbra_59, RobsFeet_63, Fireman_62
• Track 4 : Gina_63, Teamocil_63
• Track 5 : Germa_61
• Track 6 : Ariadne_69, Smarties_69
• Track 7 : Skugga_59
• Track 8 : NoodlelyBoi_60, SirFrank_59
• Track 9 : BeagleBug_58, Phrancesco_59, Shotgun_59, Hermeonysus_59, Rockwell_58, PiperSansNom_60
• Track 10 : Metamorphoo_62
• Track 11 : Jayden_61
• Track 12 : Lucretia_59, Piperis_60, Selwyn23_60, Yeti_61, Pulchra_61, Phorgeous_59
• Track 13 : Ramiel05_58, Kowalski_58, BrazzalePHS_58, Jollipop_60
• Track 14 : Zapato_59
• Track 15 : Crisis_60
• Track 16 : ClearAsMud_63
• Track 17 : Glorp_60, PierreOrion_59, Honeyfin_60

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

The start number called the most often in the published annotations is 5, it was called in 24 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ariadne_69, BrazzalePHS_58, ClearAsMud_63, Fireman_62, Gina_63, Glorp_60, Honeyfin_60, Jayden_61, Jollipop_60, Kowalski_58, Lucretia_59, Metamorphoo_62, NoodlelyBoi_60, Phorgeous_59, PierreOrion_59, Piperis_60, Pulchra_61, Ramiel05_58, RobsFeet_63, Selwyn23_60, Shrubaron_63, SirFrank_59, Skugga_59, Smarties_69, Teamocil_63, Tyrumbra_59, Yeti_61, Zapato_59,

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

Genes that do not have the "Most Annotated" start:
• Antares_59, BeagleBug_58, Busephilis_58, Cranjis_60, CrazyRich_58, Crisis_60, EarickHC_60, Ganandorf_58, Germa_61, Hermeonysus_59, Jefe_59, KaiHaiDragon_60, LittleFortune_61, Onika_58, Paschalis_59, PhedwardCullen_58, Phrancesco_59, PiperSansNom_60, Quhwah_63, Rockwell_58, Savannah_58, Scumberland_61, Shotgun_59,

Summary by start number:

Start 3:
• Found in 23 of 51 (45.1%) of genes in pham
• Manual Annotations of this start: 21 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antares_59 (EC), BeagleBug_58 (EC), Busephilis_58 (EC), Cranjis_60 (EC), CrazyRich_58 (EC), Crisis_60 (EC), EarickHC_60 (EC), Ganandorf_58 (EC), Germa_61 (EC), Hermeonysus_59 (EC), Jefe_59 (EC), KaiHaiDragon_60 (EC), LittleFortune_61 (EC), Onika_58 (EC), Paschalis_59 (EC), PhedwardCullen_58 (EC), Phrancesco_59 (EC), PiperSansNom_60 (EC), Quhwah_63 (EC), Rockwell_58 (EC), Savannah_58 (EC), Scumberland_61 (EC), Shotgun_59 (EC),

Start 5:
• Found in 28 of 51 (54.9%) of genes in pham
• Manual Annotations of this start: 24 of 45
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ariadne_69 (EC), BrazzalePHS_58 (EC), ClearAsMud_63 (EC), Fireman_62 (EC), Gina_63 (EC), Glorp_60 (EC), Honeyfin_60 (EC), Jayden_61 (EC), Jollipop_60 (EC), Kowalski_58 (EC), Lucretia_59 (EC), Metamorphoo_62 (EC), NoodlelyBoi_60 (EC), Phorgeous_59 (EC), PierreOrion_59 (EC), Piperis_60 (EC), Pulchra_61 (EC), Ramiel05_58 (EC), RobsFeet_63 (EC), Selwyn23_60 (EC), Shrubaron_63 (EC), SirFrank_59 (EC), Skugga_59 (EC), Smarties_69 (EC), Teamocil_63 (EC), Tyrumbra_59 (EC), Yeti_61 (EC), Zapato_59 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:
•Start number 3 was manually annotated 21 times for cluster EC.
•Start number 5 was manually annotated 24 times for cluster EC.

Gene Information:

Gene: Antares_59 Start: 38683, Stop: 39186, Start Num: 3
Candidate Starts for Antares_59:
(Start: 3 @38683 has 21 MA's), (6, 38818), (7, 38821), (9, 38869), (22, 39163),

Gene: Ariadne_69 Start: 40305, Stop: 40778, Start Num: 5
Candidate Starts for Ariadne_69:
(Start: 5 @40305 has 24 MA's), (6, 40410), (9, 40461), (11, 40506), (12, 40533), (14, 40569), (15, 40575),

Gene: BeagleBug_58 Start: 38463, Stop: 38966, Start Num: 3
Candidate Starts for BeagleBug_58:
(Start: 3 @38463 has 21 MA's), (6, 38598), (7, 38601), (9, 38649), (13, 38724), (16, 38766), (22, 38943),

Gene: BrazzalePHS_58 Start: 38478, Stop: 38948, Start Num: 5
Candidate Starts for BrazzalePHS_58:
(Start: 5 @38478 has 24 MA's), (6, 38583), (9, 38634), (14, 38742), (15, 38748), (21, 38880),

Gene: Busephilis_58 Start: 38390, Stop: 38893, Start Num: 3
Candidate Starts for Busephilis_58:
(Start: 3 @38390 has 21 MA's), (6, 38525), (7, 38528), (9, 38576), (22, 38870),

Gene: ClearAsMud_63 Start: 38961, Stop: 39434, Start Num: 5
Candidate Starts for ClearAsMud_63:
(Start: 5 @38961 has 24 MA's), (6, 39066), (9, 39117), (10, 39123), (12, 39189), (14, 39225), (20, 39360),

Gene: Cranjis_60 Start: 38638, Stop: 39141, Start Num: 3
Candidate Starts for Cranjis_60:
(Start: 3 @38638 has 21 MA's), (6, 38773), (7, 38776), (9, 38824), (22, 39118),

Gene: CrazyRich_58 Start: 38447, Stop: 38950, Start Num: 3
Candidate Starts for CrazyRich_58:
(Start: 3 @38447 has 21 MA's), (6, 38582), (7, 38585), (9, 38633), (22, 38927),

Gene: Crisis_60 Start: 38438, Stop: 38941, Start Num: 3
Candidate Starts for Crisis_60:
(Start: 3 @38438 has 21 MA's), (6, 38573), (7, 38576), (9, 38624), (13, 38699), (16, 38741), (19, 38840), (22, 38918),

Gene: EarickHC_60 Start: 38360, Stop: 38863, Start Num: 3
Candidate Starts for EarickHC_60:
(Start: 3 @38360 has 21 MA's), (6, 38495), (7, 38498), (9, 38546), (22, 38840),

Gene: Fireman_62 Start: 40381, Stop: 40857, Start Num: 5
Candidate Starts for Fireman_62:
(Start: 5 @40381 has 24 MA's), (8, 40498), (9, 40540), (10, 40546), (12, 40612),

Gene: Ganandorf_58 Start: 38471, Stop: 38974, Start Num: 3
Candidate Starts for Ganandorf_58:
(Start: 3 @38471 has 21 MA's), (6, 38606), (7, 38609), (9, 38657), (22, 38951),

Gene: Germa_61 Start: 38301, Stop: 38804, Start Num: 3
Candidate Starts for Germa_61:
(Start: 3 @38301 has 21 MA's), (6, 38436), (7, 38439), (9, 38487), (13, 38562), (22, 38781),

Gene: Gina_63 Start: 38467, Stop: 38940, Start Num: 5

Candidate Starts for Gina_63:
(Start: 5 @38467 has 24 MA's), (6, 38572), (9, 38623), (12, 38695), (15, 38737),

Gene: Glorp_60 Start: 38471, Stop: 38941, Start Num: 5
Candidate Starts for Glorp_60:
(Start: 5 @38471 has 24 MA's), (6, 38576), (9, 38627), (14, 38735), (18, 38828), (20, 38870),

Gene: Hermeonysus_59 Start: 38366, Stop: 38869, Start Num: 3
Candidate Starts for Hermeonysus_59:
(Start: 3 @38366 has 21 MA's), (6, 38501), (7, 38504), (9, 38552), (13, 38627), (16, 38669), (22, 38846),

Gene: Honeyfin_60 Start: 38659, Stop: 39129, Start Num: 5
Candidate Starts for Honeyfin_60:
(Start: 5 @38659 has 24 MA's), (6, 38764), (9, 38815), (14, 38923), (18, 39016), (20, 39058),

Gene: Jayden_61 Start: 39140, Stop: 39613, Start Num: 5
Candidate Starts for Jayden_61:
(Start: 5 @39140 has 24 MA's), (6, 39245), (11, 39341), (12, 39368), (14, 39404),

Gene: Jefe_59 Start: 38424, Stop: 38927, Start Num: 3
Candidate Starts for Jefe_59:
(Start: 3 @38424 has 21 MA's), (6, 38559), (7, 38562), (9, 38610), (22, 38904),

Gene: Jollipop_60 Start: 38839, Stop: 39309, Start Num: 5
Candidate Starts for Jollipop_60:
(Start: 5 @38839 has 24 MA's), (6, 38944), (9, 38995), (14, 39103), (15, 39109), (21, 39241),

Gene: KaiHaiDragon_60 Start: 38360, Stop: 38863, Start Num: 3
Candidate Starts for KaiHaiDragon_60:
(Start: 3 @38360 has 21 MA's), (6, 38495), (7, 38498), (9, 38546), (22, 38840),

Gene: Kowalski_58 Start: 38473, Stop: 38943, Start Num: 5
Candidate Starts for Kowalski_58:
(Start: 5 @38473 has 24 MA's), (6, 38578), (9, 38629), (14, 38737), (15, 38743), (21, 38875),

Gene: LittleFortune_61 Start: 38731, Stop: 39234, Start Num: 3
Candidate Starts for LittleFortune_61:
(Start: 3 @38731 has 21 MA's), (6, 38866), (7, 38869), (9, 38917), (22, 39211),

Gene: Lucretia_59 Start: 38389, Stop: 38859, Start Num: 5
Candidate Starts for Lucretia_59:
(Start: 5 @38389 has 24 MA's), (6, 38494), (9, 38545), (14, 38653), (18, 38746), (21, 38791),

Gene: Metamorphoo_62 Start: 39675, Stop: 40148, Start Num: 5
Candidate Starts for Metamorphoo_62:
(Start: 5 @39675 has 24 MA's), (8, 39792), (9, 39834), (12, 39906),

Gene: NoodlelyBoi_60 Start: 39252, Stop: 39725, Start Num: 5
Candidate Starts for NoodlelyBoi_60:
(Start: 5 @39252 has 24 MA's), (6, 39357), (9, 39408), (12, 39480), (14, 39516), (20, 39651),

Gene: Onika_58 Start: 38449, Stop: 38952, Start Num: 3

Candidate Starts for Onika_58:
(Start: 3 @38449 has 21 MA's), (6, 38584), (7, 38587), (9, 38635), (22, 38929),

Gene: Paschalis_59 Start: 38456, Stop: 38959, Start Num: 3
Candidate Starts for Paschalis_59:
(Start: 3 @38456 has 21 MA's), (6, 38591), (7, 38594), (9, 38642), (22, 38936),

Gene: PhedwardCullen_58 Start: 38206, Stop: 38697, Start Num: 3
Candidate Starts for PhedwardCullen_58:
(Start: 3 @38206 has 21 MA's), (6, 38341), (7, 38344), (9, 38392), (22, 38674),

Gene: Phorgeous_59 Start: 38290, Stop: 38760, Start Num: 5
Candidate Starts for Phorgeous_59:
(Start: 5 @38290 has 24 MA's), (6, 38395), (9, 38446), (14, 38554), (18, 38647), (21, 38692),

Gene: Phrancesco_59 Start: 38580, Stop: 39083, Start Num: 3
Candidate Starts for Phrancesco_59:
(Start: 3 @38580 has 21 MA's), (6, 38715), (7, 38718), (9, 38766), (13, 38841), (16, 38883), (22, 39060),

Gene: PierreOrion_59 Start: 38698, Stop: 39168, Start Num: 5
Candidate Starts for PierreOrion_59:
(Start: 5 @38698 has 24 MA's), (6, 38803), (9, 38854), (14, 38962), (18, 39055), (20, 39097),

Gene: PiperSansNom_60 Start: 38762, Stop: 39265, Start Num: 3
Candidate Starts for PiperSansNom_60:
(Start: 3 @38762 has 21 MA's), (6, 38897), (7, 38900), (9, 38948), (13, 39023), (16, 39065), (22, 39242),

Gene: Piperis_60 Start: 38415, Stop: 38885, Start Num: 5
Candidate Starts for Piperis_60:
(Start: 5 @38415 has 24 MA's), (6, 38520), (9, 38571), (14, 38679), (18, 38772), (21, 38817),

Gene: Pulchra_61 Start: 38811, Stop: 39281, Start Num: 5
Candidate Starts for Pulchra_61:
(Start: 5 @38811 has 24 MA's), (6, 38916), (9, 38967), (14, 39075), (18, 39168), (21, 39213),

Gene: Quhwah_63 Start: 39070, Stop: 39573, Start Num: 3
Candidate Starts for Quhwah_63:
(Start: 3 @39070 has 21 MA's), (6, 39205), (7, 39208), (9, 39256), (22, 39550),

Gene: Ramiel05_58 Start: 38473, Stop: 38943, Start Num: 5
Candidate Starts for Ramiel05_58:
(Start: 5 @38473 has 24 MA's), (6, 38578), (9, 38629), (14, 38737), (15, 38743), (21, 38875),

Gene: RobsFeet_63 Start: 39942, Stop: 40418, Start Num: 5
Candidate Starts for RobsFeet_63:
(Start: 5 @39942 has 24 MA's), (8, 40059), (9, 40101), (10, 40107), (12, 40173),

Gene: Rockwell_58 Start: 38473, Stop: 38976, Start Num: 3
Candidate Starts for Rockwell_58:
(Start: 3 @38473 has 21 MA's), (6, 38608), (7, 38611), (9, 38659), (13, 38734), (16, 38776), (22, 38953),

Gene: Savannah_58 Start: 38500, Stop: 39003, Start Num: 3
Candidate Starts for Savannah_58:
(Start: 3 @38500 has 21 MA's), (6, 38635), (7, 38638), (9, 38686), (22, 38980),

Gene: Scumberland_61 Start: 38695, Stop: 39198, Start Num: 3
Candidate Starts for Scumberland_61:
(Start: 3 @38695 has 21 MA's), (6, 38830), (7, 38833), (9, 38881), (22, 39175),

Gene: Selwyn23_60 Start: 38645, Stop: 39115, Start Num: 5
Candidate Starts for Selwyn23_60:
(Start: 5 @38645 has 24 MA's), (6, 38750), (9, 38801), (14, 38909), (18, 39002), (21, 39047),

Gene: Shotgun_59 Start: 38376, Stop: 38879, Start Num: 3
Candidate Starts for Shotgun_59:
(Start: 3 @38376 has 21 MA's), (6, 38511), (7, 38514), (9, 38562), (13, 38637), (16, 38679), (22, 38856),

Gene: Shrubaron_63 Start: 39555, Stop: 40031, Start Num: 5
Candidate Starts for Shrubaron_63:
(Start: 5 @39555 has 24 MA's), (8, 39672), (9, 39714), (10, 39720),

Gene: SirFrank_59 Start: 38656, Stop: 39129, Start Num: 5
Candidate Starts for SirFrank_59:
(Start: 5 @38656 has 24 MA's), (6, 38761), (9, 38812), (12, 38884), (14, 38920), (20, 39055),

Gene: Skugga_59 Start: 38845, Stop: 39315, Start Num: 5
Candidate Starts for Skugga_59:
(Start: 5 @38845 has 24 MA's), (6, 38950), (11, 39046), (12, 39073), (14, 39109), (15, 39115), (22, 39295),

Gene: Smarties_69 Start: 40305, Stop: 40778, Start Num: 5
Candidate Starts for Smarties_69:
(Start: 5 @40305 has 24 MA's), (6, 40410), (9, 40461), (11, 40506), (12, 40533), (14, 40569), (15, 40575),

Gene: Teamocil_63 Start: 38560, Stop: 39033, Start Num: 5
Candidate Starts for Teamocil_63:
(Start: 5 @38560 has 24 MA's), (6, 38665), (9, 38716), (12, 38788), (15, 38830),

Gene: Tyrumbra_59 Start: 39801, Stop: 40277, Start Num: 5
Candidate Starts for Tyrumbra_59:
(Start: 5 @39801 has 24 MA's), (8, 39918), (9, 39960), (10, 39966), (12, 40032),

Gene: Yeti_61 Start: 38447, Stop: 38917, Start Num: 5
Candidate Starts for Yeti_61:
(Start: 5 @38447 has 24 MA's), (6, 38552), (9, 38603), (14, 38711), (18, 38804), (21, 38849),

Gene: Zapato_59 Start: 39133, Stop: 39603, Start Num: 5
Candidate Starts for Zapato_59:
(1, 39046), (2, 39097), (4, 39130), (Start: 5 @39133 has 24 MA's), (6, 39238), (9, 39289), (11, 39334), (12, 39361), (14, 39397), (17, 39418), (21, 39535),